



# Financials

We aim to provide our stakeholders with a comprehensive, clear and concise view of our financial position and performance.



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# Approaching Our Financial Statements

The objective of financial statements is to communicate the Group's financial information to our stakeholders, especially shareholders, investors and lenders, for making economic decisions. To achieve this objective, it is always our aim to present the financial information of CLP as clearly and concisely as possible. This overview helps you understand how information is organised and presented in our financial statements. Hopefully, this will bring you a more insightful reading experience.

## Accounting Mini-series

We believe that understanding financial statements is a right, not a privilege. To help those unfamiliar with accounting terms read our financial statements, we have developed an [Accounting Mini-series](#) to explain topical and difficult accounting concepts in a way that is easier to understand. A number of topics have been discussed since 2007, the content of which can be found in our website. 



Read our accounting mini-series

## Significant Accounting Policies

Financial statements are prepared in accordance with Hong Kong Financial Reporting Standards (HKFRS). You do not need to be familiar with all the requirements of HKFRS because **the accounting policies which are significant and relevant to the Group are disclosed in the financial statements**. The disclosures include specific principles and procedures selected and applied by management in preparing the financial statements, as well as the methods, measurement basis and procedures to account for the transactions.

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## Tips & Hints

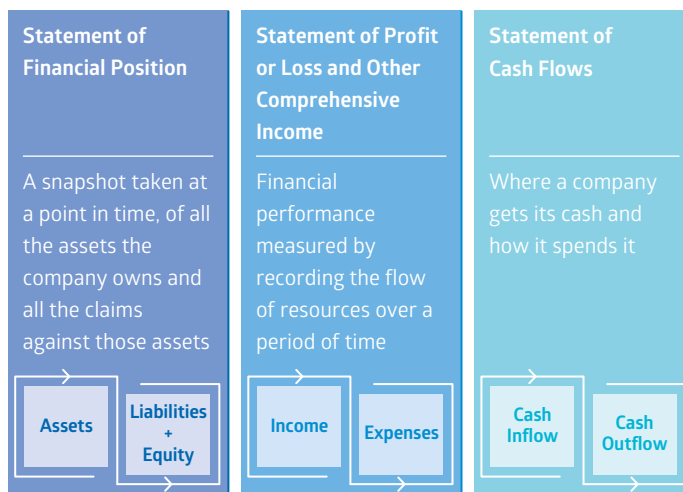
Tips & Hints are our initiatives to facilitate you to understand the content of a particular disclosure or complicated accounting concepts or terms.



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## Essential Financial Statements

Financial statements start with summaries of the financial position, performance and changes in resources of the Group. **These summaries are presented in three essential financial statements with different objectives as shown in the diagram.** The relationships between these statements and the interactions with the Group's stakeholders are set out in our [website](#). 



## Critical Accounting Estimates and Judgements

Management makes judgements and estimates in preparing the financial statements, some of which will have a significant effect on the reported results and financial position. HKAS 1 specifies that an entity shall disclose (1) the key judgements that have the most significant effect on amounts recognised; and (2) the assumptions and other sources of estimation uncertainty at period end that have a significant risk of material adjustment to the carrying amounts of assets or liabilities within the next financial year. You should pay attention to **our disclosures under "critical accounting estimates and judgements" which help you assess CLP's financial position and performance and understand the sensitivities to changes in assumptions.**

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# Useful Lives and Residual Values of Fixed Assets

## What is the challenge?

As part of becoming a Utility of the Future, CLP is committed to achieving net-zero greenhouse gas emissions by 2050. Therefore, we are progressively phasing out coal for power generation while investing in renewable and other non-carbon emitting energy, as well as developing other streams of business, including power transmission, distribution and retail; and energy and infrastructure services.

This global trend of transitioning towards a low carbon economy, if not properly managed, could challenge the financial stability of companies, and it has resulted in the inclusion of climate change as one of the key risks reported by most organisations. No matter this, the accounting standard does not refer explicitly to climate-related matters, however these may affect the financial statements in various areas. One of the affected areas is related to the estimation of the useful life and the residual value of an asset.

In this accounting mini-series, we will check out what factors shall be considered in the determination and estimation of the useful life and the residual value of an asset and how climate-related risks may affect the decisions.

## What is useful life?

Useful life is defined as the period over which the company expects the asset to be available for use, or the number of production or similar units expects to be obtained from the asset. It is typically referred to as the length of time the asset can reasonably be used to generate income and be of benefit to the company, and therefore may be shorter than the design life of the asset.

As the useful life of an asset is an accounting estimate and the underlying assumptions may change over time, the accounting standard requires companies to review the estimated useful life of the assets at least every financial year end. The change in the estimated useful life of an asset affects the amount of depreciation recognised each year.

In the past, when reviewing or determining estimated useful lives, management mostly focused on existing guidelines in the accounting standard. Nowadays, with the evolving trends in climate change, climate-related factors shall also be taken into consideration. Details of both general and climate-related factors are set out in the adjacent table.





Factors	Accounting standard guidelines	Climate-related considerations
<b>Expected usage of the asset</b>	Usage is assessed by reference to the asset's expected capacity or physical output.	<ul style="list-style-type: none"> <li>Company's climate-related decisions or strategies, such as commitments to transit to lower-carbon emission.</li> </ul>
<b>Expected physical wear and tear</b>	It depends on operational factors such as the number of shifts the asset is to be used for, the repair and maintenance programme of the company, and the care and maintenance of the asset when idle.	<ul style="list-style-type: none"> <li>Climate change may affect the repair and maintenance programme. Capital expenditure to protect operations and supply chains, or repair damage caused by climate change-related weather events may increase to maintain the useful life of the asset.</li> </ul>
<b>Technical obsolescence</b>	Arises from changes or improvements in production. Expected future reductions in the selling prices of an item produced using an asset could indicate the technical obsolescence of the asset.	<ul style="list-style-type: none"> <li>New technologies that support the transition to a lower-carbon economy such as the development or emergence of new environmentally friendly technologies can impact the demand for existing products.</li> </ul>
<b>Commercial obsolescence</b>	Arises from a change in the market demand for the product or service output of the asset. Expected future reductions in the selling prices of an item produced using an asset could indicate the commercial obsolescence of the asset.	<ul style="list-style-type: none"> <li>Change of consumer preferences towards green processes or products can lead to reduced demand for existing products or services.</li> </ul>
<b>Legal or other limitations on the use of an asset</b>	Such as the expiry dates of related leases on buildings or properties.	<ul style="list-style-type: none"> <li>Policy actions by governments such as introducing climate-related regulations and carbon taxes, forcing company to abandon the asset sooner than expected or implementing caps on the use of resources. All of these can reduce demand for products or increase operating costs. An increase in climate-related legal claims also heightens legal risks.</li> </ul>

## What is residual value?

Residual value of an asset is the estimated amount that a company would currently receive from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its useful life. Thus, residual values take account of changes in prices up to the reporting date, but not of expected future changes. Residual values are not based on prices prevailing at the date of acquisition of an asset.

An asset is depreciated to its residual value, hence a change in the residual value affects its depreciation expense. Same as with the useful life, as uncertainty is associated with the estimates, the residual value of an asset is to be reviewed, as a minimum, at each financial year end. The common approaches to derive the residual value are set out in the adjacent table.

Approaches		
Insignificant or no value	Comparables	Company's policy
<b>Basis</b>		
It is assumed that the assets will be scrapped at the end of the useful life.	The residual value is compared to the value of comparable assets, which are traded in a well-organised market.	A company policy that sets out a unified residual value to each class of assets.
<b>Pros</b>		
A very efficient method that simplifies the depreciation calculation.	An objective approach, more defensible.	Facilitates management evaluation of the performance of the assets in the same class.
<b>Cons</b>		
Changes in the estimated residual value could cause volatility in the depreciation expense.	Not all assets have comparables in a well-organised market, including specific assets like power plant.	Less supportive approach. Likely to be challenged especially if the company set the residual value higher than the market value, which results in lower depreciation expense.



**The residual value and the useful life of an asset shall be reviewed at least at each financial year-end. (HKAS 16.51)**



## How to account for changes in useful lives and residual values?

A change in the useful life and /or the residual value of an asset is accounted for as a change in estimate, thus it has to be incorporated in a prospective manner i.e. the change will be implemented from the date of revision forward. Previous periods are not adjusted for changes in estimates.

A significant reduction in the estimated useful life of an asset may also indicate that the carrying amount of the asset is impaired as the period of income generation would be reduced significantly.

## What to disclose?

A change in estimates affect the depreciation expense for the current period as well as for each future period until the end of the asset's useful life. The company shall disclose the nature and amount of the change in these estimates.

The accounting standard does require disclosure of climate-related matters, including the exposure of the value of the assets to climate-related risks that could result in a material adjustment to the carrying amounts within the next financial year and /or could influence investors' decision-making process. The company shall disclose the nature of the assumptions applied in the estimates and the year-end balance of those assets.

## CLP Group case studies

CLP reviews and reassesses the useful lives and residual values of its assets not only at every financial year end, but also on a timely manner when certain circumstances arise. In recent years, management has paid special attention and consideration to climate-related matters during the revision of useful lives and residual values of the generation assets. The table below lists out some of our recent revisions, which illustrates how CLP applies vividly the accounting standard requirements as discussed in this accounting mini-series.



	Asset	Changes	Factors driving changes
Hong Kong	Black Point Power Station	<b>Extension of useful life</b> Useful lives of the generating plants have been extended by 5 years in 2018.	After mid-life refurbishments, useful lives of the assets are prolonged.
Australia	Yallourn Power Station	<b>Early retirement</b> In March 2021, EnergyAustralia announced it would close Yallourn power station in mid-2028, four years earlier than planned.	The early closure is the result of rapidly changing market dynamics as well as the age of the plant. EnergyAustralia is committed to delivering in the cleaner energy transition, and accordingly has announced the early retirement of its largest coal-based generating plant.
Australia	Mount Piper Power Station	<b>Accelerated exit</b> In September 2021, EnergyAustralia announced the early closure of Mount Piper coal-fired power plant in New South Wales to 2040, three years earlier than the previous indicated closure in 2043.	EnergyAustralia plans to reach net-zero greenhouse gas emissions by 2050, and to transition out of coal assets by 2040. The accelerated exit is part of a commitment to exit all coal generation by 2040 as part of the revised emissions reduction strategy.
India	Jhajjar Power Station	<b>The assumption of non-renewal of power purchase agreements (PPAs)</b> In 2021, management has restricted the time period to the contractual period of the PPAs in forecasting cash flows for impairment assessment.	Apraava Energy expects that the current PPAs with the offtakers would unlikely be renewed after their expiry in 2037.



## To the Members of CLP Holdings Limited

(incorporated in Hong Kong with limited liability)

### Opinion

#### *What we have audited*

The consolidated financial statements of CLP Holdings Limited (the "Company") and its subsidiaries (the "Group") ("the Group Financial Statements") set out on pages 224 to 296, which comprise:

- ◆ the Consolidated Statement of Financial Position as at 31 December 2021;
- ◆ the Consolidated Statement of Profit or Loss for the year then ended;
- ◆ the Consolidated Statement of Profit or Loss and Other Comprehensive Income for the year then ended;
- ◆ the Consolidated Statement of Changes in Equity for the year then ended;
- ◆ the Consolidated Statement of Cash Flows for the year then ended; and
- ◆ the Significant Accounting Policies, Notes to the Financial Statements and Financial Risk Management.

#### *Our opinion*

In our opinion, the Group Financial Statements give a true and fair view of the consolidated financial position of the Group as at 31 December 2021, and of its consolidated financial performance and its consolidated cash flows for the year then ended in accordance with Hong Kong Financial Reporting Standards ("HKFRSs") issued by the Hong Kong Institute of Certified Public Accountants ("HKICPA") and have been properly prepared in compliance with the Hong Kong Companies Ordinance.

### Basis for Opinion

We conducted our audit in accordance with Hong Kong Standards on Auditing ("HKSA") issued by the HKICPA. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Group Financial Statements section of our report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### *Independence*

We are independent of the Group in accordance with the HKICPA's Code of Ethics for Professional Accountants ("the Code"), and we have fulfilled our other ethical responsibilities in accordance with the Code.

## Key Audit Matters

Key Audit Matters are those matters that, in our professional judgement, were of most significance in our audit of the Group Financial Statements of the current period. These matters were addressed in the context of our audit of the Group Financial Statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

Key audit matters identified in our audit are summarised as follows:

- ◆ Unbilled retail revenue;
- ◆ The carrying values of EnergyAustralia's energy retail business and generation business, and Apraava Energy's Jhajjar power station;
- ◆ Fixed asset accounting and the calculation of the Scheme of Control permitted return;
- ◆ Recoverability of trade receivables; and
- ◆ Asset retirement obligations (AROs).

### Key Audit Matter

### How our audit addressed the Key Audit Matter

#### Unbilled retail revenue

Refer to note 2 to the Group Financial Statements

Retail electricity and gas revenues are recognised when electricity and gas are supplied to and consumed by the customers. Revenues are measured on the basis of periodic cycle meter readings and include an estimated accrual for the value of electricity and gas consumed from the meter reading date to the end of the reporting period. Unbilled retail revenue of the Group totalled HK\$3,186 million as at 31 December 2021.

CLP Power Hong Kong Limited (CLP Power Hong Kong) calculates unbilled revenue using estimates including: consumption quantity based on the electricity sent-out adjusted by loss factors, the pattern of residential and non-residential consumption, weather and certain other factors.

EnergyAustralia Holdings Limited (EnergyAustralia) calculates unbilled retail revenue based on the electricity purchased and the applicable tariffs for the mass market customer segment, as well as the actual meter readings and the contracted rates for commercial and industrial customers. The amount is adjusted for physical energy loss and other measurable factors.

This is a Key Audit Matter because the calculation of unbilled retail revenue involves a high degree of estimation.

Our procedures in relation to unbilled revenue included:

- ◆ Understanding of and testing the key controls in place to determine the estimate of unbilled revenue for both CLP Power Hong Kong and EnergyAustralia;
- ◆ Testing the volume of electricity sent-out by CLP Power Hong Kong to supporting information;
- ◆ Assessing the reasonableness of estimates by comparing them against historical trends;
- ◆ Testing the volume of electricity purchased by EnergyAustralia from the wholesale electricity market to the underlying Australian Energy Market Operator invoices on a sample basis and reconciling the total purchase volumes to revenue volumes; and
- ◆ Understanding the estimates made relating to loss factors and tariffs used in determining the level of unbilled revenue for both CLP Power Hong Kong and EnergyAustralia and assessing their reasonableness by comparing them against historical trends and against the weighted average tariff for prices.

Based on the work performed, we found that the Group's unbilled revenue amount is supported by the available evidence.



## Key Audit Matter

### The carrying values of EnergyAustralia's energy retail business and generation business, and Apraava Energy's Jhajjar power station

Refer to notes 10 and 13 to the Group Financial Statements

#### *The carrying value of EnergyAustralia's energy retail business*

EnergyAustralia has goodwill of HK\$8,854 million relating to the energy retail business in Australia.

The recoverable amount of EnergyAustralia's energy retail business is determined based on a value in use calculation. Cash flow projections are derived from EnergyAustralia's approved business plan which includes cost saving initiatives and an appropriate reflection of future cash flows from potential legislative, regulatory and structural changes in the industry.

The key assumptions used in the value in use calculation include retail tariffs, electricity and gas volumes, network distribution costs, the customer account growth rate and the discount rate.

The results of the value in use calculation of EnergyAustralia's energy retail business indicates that marginal headroom remains.

## How our audit addressed the Key Audit Matter

Our procedures in relation to management's assessment of the carrying value of EnergyAustralia's energy retail business and generation business, and Apraava Energy's Jhajjar power station included:

- ◆ Assessing the appropriateness of the valuation methodologies used in the assessment of each of the recoverable amounts;
- ◆ Reconciling input data to supporting evidence, such as each of the approved business plans and where possible to publicly available market data;
- ◆ Challenging the reasonableness of the key assumptions based on our knowledge of each business and industry;
- ◆ Assessing the discount rates used in each assessment which has included the involvement of in-house valuation experts where appropriate;
- ◆ Verifying the integrity of formulae and mathematical accuracy of management's valuation models;
- ◆ Assessing the potential impact of reasonably possible changes in key assumptions including possible future regulatory policy changes with respect to generation and retail sales of electricity in Australia;
- ◆ Reviewing the recognition and allocation of the impairment charge to the fixed assets of Jhajjar power station; and
- ◆ Reviewing the appropriateness of the Group's disclosures with respect to the impairment assessments.

**Key Audit Matter**

**The carrying values of EnergyAustralia's energy retail business and generation business, and Apraava Energy's Jhajjar power station (continued)**

*The carrying values of EnergyAustralia's generation business and Apraava Energy's Jhajjar power station*

The Group has substantial investments in fixed assets. These are reviewed for impairment whenever events or changes in circumstances indicate that the carrying value may not be recoverable.

The key estimates and assumptions used in EnergyAustralia's generation business value in use calculation include a pre-tax discount rate, forward electricity pool prices, generation volumes, retail volumes, gas prices, long term assumptions around market movements, growth rates and forecasted operating costs.

EnergyAustralia's generation business value in use model indicates minimal headroom. Any adverse shift in a key assumption is likely to result in a potential impairment.

During 2021 management determined it is unlikely that the power purchase agreements with the offtakers at Apraava Energy Private Limited (Apraava Energy)'s Jhajjar power station will be renewed after their expiry in 2037.

An impairment test for Jhajjar power station was performed using a value in use calculation and an impairment provision for fixed assets of HK\$330 million was recognised as at 31 December 2021. The key assumptions used in the value in use calculation include a pre-tax discount rate and the time period of the power purchase agreement.

This is a Key Audit Matter, because inputs to the value in use models require significant management judgements and a high degree of estimation. Changes in these key assumptions would have a direct impact on the valuations.

**How our audit addressed the Key Audit Matter**

Based on the work performed we found:

- ◆ that the carrying value of EnergyAustralia's energy retail and generation businesses are supported by the available evidence and the key assumptions have been appropriately disclosed in notes 10 and 13 to the Group Financial Statements.
- ◆ that the impairment charge recorded and the 31 December 2021 carrying value of Apraava Energy's Jhajjar fixed assets is supported by the available evidence and the key assumptions have been appropriately disclosed in notes 5(d) and 10 to the Group Financial Statements.

## Key Audit Matter

### Fixed asset accounting and the calculation of the Scheme of Control permitted return

Refer to notes 10 and 11 to the Group Financial Statements

Consolidated fixed assets and right-of-use assets were HK\$161.2 billion at 31 December 2021. This includes fixed assets and leasehold land relating to CLP Power Hong Kong and Castle Peak Power Company Limited (CAPCO) (together the SoC Companies) (SoC fixed assets) which are the base used in the calculation of the permitted return under the Scheme of Control (SoC) Agreement.

The annual permitted return is 8% of the SoC Companies' average net fixed assets. If the gross tariff revenue in a period is less than or exceeds the total of the SoC operating costs, the permitted return and the taxation charges, such deficiency shall be deducted from, or such excess shall be added to, the Tariff Stabilisation Fund (TSF). In any period, the amount of deduction from or addition to the TSF is recognised as a revenue adjustment to the extent that the return and charges under the SoC are recognised in profit or loss.

This is a Key Audit Matter because of the significance of the balance and its importance to the SoC Companies. The accuracy of SoC fixed asset additions, disposals and depreciation charges is important to ensure the SoC fixed asset balance is appropriate and the permitted return is calculated correctly.

## How our audit addressed the Key Audit Matter

Our procedures in relation to the Group's SoC fixed assets and the calculation of the SoC permitted return included:

- ◆ Assessing the control environment and testing controls over SoC fixed assets additions, disposals and depreciation charges;
- ◆ Testing the SoC fixed asset additions in the year to supporting evidence on a sample basis and assessing whether the items have been appropriately capitalised;
- ◆ Assessing the appropriateness of SoC capital accruals made by management for large projects by agreeing assumptions to audit evidence from the Group's vendors;
- ◆ Assessing the estimated useful lives of the SoC fixed assets for compliance with the SoC;
- ◆ Testing depreciation charges by performing depreciation reasonableness tests;
- ◆ Obtaining management's reconciliation of SoC fixed assets from the opening balance at the beginning of the year to the closing balance at the end of the year and reconciling this to the general ledger and supporting records;
- ◆ Recalculating the SoC permitted return for the year; and
- ◆ Recalculating the SoC adjustment to revenue for the year.

Based on the work performed, we found that the Group's SoC fixed asset accounting and the SoC permitted return calculation are supported by the available evidence.

### Key Audit Matter

#### Recoverability of trade receivables

Refer to note 19 to the Group Financial Statements

CLP Power Hong Kong and EnergyAustralia have significant retail businesses with many individual customers. The offtakers for the Group's other generation businesses are mainly a small number of state grid operators. The Group measures the loss allowance for its trade receivables at an amount equal to the lifetime expected credit losses.

Expected credit losses in CLP Power Hong Kong are close to zero as the trade receivables are mostly secured by cash deposits or bank guarantees from customers and have no recent history of default.

EnergyAustralia has trade receivables of HK\$5,429 million at 31 December 2021 against which provisions for expected credit losses of HK\$987 million are held. Management estimated the level of expected losses, by assessing future cash flows for each group of trade receivables including a probability weighted amount determined by evaluating a range of possible outcomes based on twelve month rolling historical credit loss experience by customer segment, geographical region, tenure and type of customer and applying that weighting to the receivables held at year end. The impact of economic factors, both current and future, is considered in assessing the likelihood of recovery from customers.

As at 31 December 2021, the Group had total receivables of HK\$2,302 million relating to unpaid Renewable National Subsidies in its Mainland China business. The expected credit loss is close to zero as continuous settlements have been noted with no history of default and the subsidy is funded by the Renewable Energy Development Fund set up and administered by the Ministry of Finance.

Apraava Energy's renewable projects have trade receivables of HK\$883 million of which HK\$809 million are past due at 31 December 2021. Management has assessed the recoverability of past due amounts and concluded that the expected credit loss is close to zero as there is no recent history of default and continuous payments are received.

This is a Key Audit Matter because of the magnitude of the trade receivables balance and the significant judgement applied in assessing the allowance for expected credit losses.

### How our audit addressed the Key Audit Matter

Our procedures in relation to trade receivables included:

- ◆ Testing controls over the billing and collection cycles in CLP Power Hong Kong and EnergyAustralia;
- ◆ Testing the system calculated trade receivables ageing analysis used to assess the recoverability of receivables in CLP Power Hong Kong and EnergyAustralia;
- ◆ Assessing the appropriateness of the credit loss provisioning methodologies used by the Group;
- ◆ Assessing the estimates used to determine the expected credit losses by considering cash collection performance against historical trends and assessing the reasonableness of forward-looking factors included in the expected credit loss model;
- ◆ Reviewing the allocation of deposits to customer balances as a part of CLP Power Hong Kong's expected credit loss assessment;
- ◆ Reviewing the accuracy of management's judgements by comparing historical provisions against actual write-offs;
- ◆ Reviewing minutes of the boards of directors' meetings relating to the recoverability of trade receivables;
- ◆ Discussion with management to understand the nature and the judgement involved in their determination that the expected credit loss on unpaid Renewable National Subsidies is close to zero, assessing the regulatory eligibility for the Group's projects and considering subsidies collected to-date; and
- ◆ Discussion with management to understand the nature and the judgement involved in estimating the expected credit loss provision on trade receivables from the state grid operators of Apraava Energy's renewable projects and corroborating with correspondence with the customers.

Based on the work performed, we found that management's assessments of the recoverability of trade receivables are supported by the available evidence.

**Asset retirement obligations (AROs)**

Refer to note 26 to the Group Financial Statements

Provisions are held for estimated remediation costs, discounted to present value, where the Group has a legal or constructive obligation for remediation and the likelihood of an economic outflow is probable. Estimating the amount and timing of the obligation requires significant judgement. Management has assessed the Group's obligations for each asset based on the local regulatory environment and expected closure dates.

Management's key ARO judgements are as follows:

The Group's ARO provision of HK\$2,950 million mainly relates to land remediation and decommissioning of generation assets in Australia. The provisions are based on estimates by external and internal experts that are discounted using internally determined end of plant lives. Other significant judgements also include the timing of the asset removal and costs to remove infrastructure, remediate soil and groundwater, water usage and technological developments.

CLP Power Hong Kong expects that its transmission and distribution network will continue to be used for the distribution of electricity supply to its customers and considers it remote that the network will be removed from the existing land sites. Therefore, AROs have not been recognised for transmission and distribution assets.

CAPCO will retire the coal-fired generation units at Castle Peak "A" Station (CPA) between 2022 to 2025. Management considers that the dismantling obligation for the CPA units is covered by the asset decommissioning liability accrued under the SoC as at 31 December 2021.

No provision for AROs has been recognised for the other generation units of CAPCO as the removal of CAPCO's other fossil-fuel generation units is possible and it is expected that should such obligation be incurred, it will be met by the liability accrued and the cost recovery mechanism under the SoC.

This is a Key Audit Matter because significant judgement is required in determining whether an ARO exists and estimating the amount and timing of the obligation.

Our procedures in relation to AROs included:

- ◆ Assessing the appropriateness of the Group's accounting policy;
- ◆ Evaluating management's judgement that it is remote that the Hong Kong transmission and distribution network would be removed from the existing land sites; it is probable that the CPA units will be removed; and it is possible but not probable that CAPCO's other fossil-fuel generation units may be removed at some point in time in the future;
- ◆ Assessing management's judgements as to whether a contractual or constructive obligation exists based on the respective power purchase agreements, lease agreements, local laws and regulations and past practice;
- ◆ Assessing the independence, objectivity and competence of management's external experts involved in respect of the future cost estimates for those assets where a provision has been recognised; and
- ◆ Testing the appropriateness of management's estimates of future costs, the timing of payments and the discount rates where management has concluded that a legal or constructive obligation exists.

Based on the work performed, we found that the ARO provisions are supported by the available evidence.



## Other Information

The directors of the Company are responsible for the other information. The other information comprises all of the information included in the annual report other than the Group Financial Statements and our auditor's report thereon.

Our opinion on the Group Financial Statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the Group Financial Statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the Group Financial Statements or our knowledge obtained in the audit or otherwise appears to be materially misstated.

If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

## Responsibilities of Directors and the Audit & Risk Committee for the Group Financial Statements

The directors of the Company are responsible for the preparation of the Group Financial Statements that give a true and fair view in accordance with HKFRSs issued by the HKICPA and the Hong Kong Companies Ordinance, and for such internal control as the directors determine is necessary to enable the preparation of Group Financial Statements that are free from material misstatement, whether due to fraud or error.

In preparing the Group Financial Statements, the directors are responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group or to cease operations, or have no realistic alternative but to do so.

The Audit & Risk Committee is responsible for overseeing the Group's financial reporting process on behalf of the Board of Directors.

## Auditor's Responsibilities for the Audit of the Group Financial Statements

Our objectives are to obtain reasonable assurance about whether the Group Financial Statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. We report our opinion solely to you, as a body, in accordance with Section 405 of the Hong Kong Companies Ordinance and for no other purpose. We do not assume responsibility towards or accept liability to any other person for the contents of this report. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with HKSAAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these Group Financial Statements.

As part of an audit in accordance with HKSAAs, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- ◆ Identify and assess the risks of material misstatement of the Group Financial Statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- ◆ Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- ◆ Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.

- ◆ Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the Group Financial Statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- ◆ Evaluate the overall presentation, structure and content of the Group Financial Statements, including the disclosures, and whether the Group Financial Statements represent the underlying transactions and events in a manner that achieves fair presentation.
- ◆ Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the Group Financial Statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with the Audit & Risk Committee regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide the Audit & Risk Committee with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, actions taken to eliminate threats or safeguards applied.

From the matters communicated with the Audit & Risk Committee, we determine those matters that were of most significance in the audit of the Group Financial Statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Yee Shia Yuen.



**PricewaterhouseCoopers**

Certified Public Accountants

Hong Kong, 28 February 2022

# Consolidated Statement of Profit or Loss

for the year ended 31 December 2021

	<i>Note</i>	2021 HK\$M	2020 HK\$M
<b>Revenue</b>	2	<b>83,959</b>	79,590
Expenses			
Purchases and distributions of electricity and gas		<b>(28,752)</b>	(27,183)
Staff expenses		<b>(5,107)</b>	(4,844)
Fuel and other operating expenses		<b>(28,581)</b>	(24,371)
Depreciation and amortisation		<b>(9,308)</b>	(8,476)
		<b>(71,748)</b>	(64,874)
Other charge	4	<b>(1,110)</b>	-
Operating profit	5	<b>11,101</b>	14,716
Finance costs	6	<b>(1,744)</b>	(1,873)
Finance income	6	<b>108</b>	136
Share of results, net of income tax			
Joint ventures	14	<b>(97)</b>	797
Associates	15	<b>2,071</b>	1,725
Profit before income tax		<b>11,439</b>	15,501
Income tax expense	7	<b>(1,965)</b>	(2,993)
Profit for the year		<b>9,474</b>	12,508
<b>Earnings attributable to:</b>			
<b>Shareholders</b>		<b>8,491</b>	11,456
Perpetual capital securities holders		<b>138</b>	138
Other non-controlling interests		<b>845</b>	914
		<b>9,474</b>	12,508
<b>Earnings per share, basic and diluted</b>	9	<b>HK\$3.36</b>	HK\$4.53

The notes and disclosures on pages 230 to 296 are an integral part of these consolidated financial statements.

# Consolidated Statement of Profit or Loss and Other Comprehensive Income

for the year ended 31 December 2021

	2021 HK\$M	2020 HK\$M
<b>Profit for the year</b>	<b>9,474</b>	12,508
Other comprehensive income		
Items that can be reclassified to profit or loss		
Exchange differences on translation	(879)	3,651
Cash flow hedges	934	(820)
Costs of hedging	(109)	153
Share of other comprehensive income of joint ventures	(4)	2
	(58)	2,986
Items that cannot be reclassified to profit or loss		
Fair value gains/(losses) on investments	100	(58)
Remeasurement gains/(losses) on defined benefit plans	77	(5)
	177	(63)
<b>Other comprehensive income for the year, net of tax</b>	<b>119</b>	2,923
Total comprehensive income for the year	<b>9,593</b>	15,431
<b>Total comprehensive income attributable to:</b>		
<b>Shareholders</b>	<b>8,660</b>	14,527
Perpetual capital securities holders	138	138
Other non-controlling interests	795	766
	<b>9,593</b>	15,431



This statement of profit or loss and other comprehensive income includes not only the conventional profit for the year, but also "other comprehensive income". Further details of other comprehensive income attributable to shareholders are presented in Note 28.

The notes and disclosures on pages 230 to 296 are an integral part of these consolidated financial statements.

# Consolidated Statement of Financial Position

as at 31 December 2021

	<i>Note</i>	2021 HK\$M	2020 HK\$M
<b>Non-current assets</b>			
Fixed assets	10	154,058	148,454
Right-of-use assets	11	7,130	7,061
Investment property	12	966	1,000
Goodwill and other intangible assets	13	19,710	20,559
Interests in and loans to joint ventures	14	10,602	11,017
Interests in associates	15	8,769	9,181
Deferred tax assets	24	376	571
Derivative financial instruments	16	2,007	1,697
Other non-current assets	17	2,303	1,300
		<b>205,921</b>	<b>200,840</b>
<b>Current assets</b>			
Inventories – stores and fuel		2,941	2,872
Renewable energy certificates		1,166	1,019
Property under development	18	2,980	2,976
Trade and other receivables	19	15,404	12,864
Income tax recoverable		546	138
Fuel clause account	21	1,116	–
Derivative financial instruments	16	1,475	1,816
Short-term deposits and restricted cash	20	360	1,550
Cash and cash equivalents	20	7,900	10,158
		<b>33,888</b>	<b>33,393</b>
<b>Current liabilities</b>			
Customers' deposits	19(a)	(6,254)	(5,908)
Fuel clause account	21	–	(346)
Trade payables and other liabilities	22	(18,381)	(18,141)
Income tax payable		(1,349)	(1,699)
Bank loans and other borrowings	23	(10,512)	(8,747)
Derivative financial instruments	16	(1,302)	(1,166)
		<b>(37,798)</b>	<b>(36,007)</b>
Net current liabilities		<b>(3,910)</b>	<b>(2,614)</b>
<b>Total assets less current liabilities</b>		<b>202,011</b>	<b>198,226</b>



	<i>Note</i>	2021 HK\$M	2020 HK\$M
<b>Financed by:</b>			
<b>Equity</b>			
Share capital	27	23,243	23,243
Reserves	28	89,791	88,957
Shareholders' funds		113,034	112,200
Perpetual capital securities	29	3,887	3,887
Other non-controlling interests	29	9,788	9,885
		<b>126,709</b>	125,972
<b>Non-current liabilities</b>			
Bank loans and other borrowings	23	47,703	45,601
Deferred tax liabilities	24	15,886	15,429
Derivative financial instruments	16	1,364	2,135
Scheme of Control (SoC) reserve accounts	25	3,440	2,374
Asset decommissioning liabilities and retirement obligations	26	4,346	3,963
Other non-current liabilities		2,563	2,752
		<b>75,302</b>	72,254
<b>Equity and non-current liabilities</b>		<b>202,011</b>	198,226



The Company's statement of financial position is presented in Note 34.

**The Hon Sir Michael David Kadoorie**

Chairman

Hong Kong, 28 February 2022

**Richard Lancaster**

Chief Executive Officer

**Nicolas Tissot**

Chief Financial Officer

The notes and disclosures on pages 230 to 296 are an integral part of these consolidated financial statements.

# Consolidated Statement of Changes in Equity

for the year ended 31 December 2021

	Attributable to Shareholders			Perpetual Capital Securities HK\$M	Other Non- controlling Interests HK\$M	Total Equity HK\$M
	Share Capital HK\$M	Reserves HK\$M	Total HK\$M			
Balance at 1 January 2020	23,243	82,212	105,455	3,887	9,987	119,329
Profit for the year	-	11,456	11,456	138	914	12,508
Other comprehensive income for the year	-	3,071	3,071	-	(148)	2,923
Dividends paid						
2019 fourth interim	-	(3,007)	(3,007)	-	-	(3,007)
2020 first to third interim	-	(4,775)	(4,775)	-	-	(4,775)
Distributions to perpetual capital securities holders	-	-	-	(138)	-	(138)
Dividends paid to other non-controlling interests	-	-	-	-	(868)	(868)
Balance at 31 December 2020	23,243	88,957	112,200	3,887	9,885	125,972
Balance at 1 January 2021	23,243	88,957	112,200	3,887	9,885	125,972
Profit for the year	-	8,491	8,491	138	845	9,474
Other comprehensive income for the year	-	169	169	-	(50)	119
Transfer to fixed assets	-	6	6	-	2	8
Dividends paid						
2020 fourth interim	-	(3,057)	(3,057)	-	-	(3,057)
2021 first to third interim	-	(4,775)	(4,775)	-	-	(4,775)
Distributions to perpetual capital securities holders	-	-	-	(138)	-	(138)
Dividends paid to other non-controlling interests	-	-	-	-	(894)	(894)
<b>Balance at 31 December 2021</b>	<b>23,243</b>	<b>89,791</b>	<b>113,034</b>	<b>3,887</b>	<b>9,788</b>	<b>126,709</b>

The notes and disclosures on pages 230 to 296 are an integral part of these consolidated financial statements.

# Consolidated Statement of Cash Flows

for the year ended 31 December 2021

	Note	2021		2020	
		HK\$M	HK\$M	HK\$M	HK\$M
<b>Operating activities</b>					
Net cash inflow from operations	30(A)	20,495		24,418	
Interest received		104		138	
Income tax paid		(2,521)		(2,182)	
Net cash inflow from operating activities			18,078		22,374
<b>Investing activities</b>					
Capital expenditure		(12,431)		(10,586)	
Capitalised interest and other finance costs paid		(298)		(324)	
Proceeds from disposal of fixed assets		104		220	
Additions of other intangible assets		(512)		(451)	
Acquisitions of subsidiaries (net of cash and cash equivalents acquired)		(698)		(196)	
Litigation settlement related to disposal of Iona Gas Plant		(1,110)		-	
Deposits paid for purchase of a property		(338)		-	
Increase in other financial assets		(184)		(74)	
Increase in investments in and loans to joint ventures		(219)		(458)	
Proceeds from disposal of a subsidiary and a joint venture		362		208	
Dividends received from					
Joint ventures		835		578	
Associates		1,721		1,742	
Equity investments		15		13	
Decrease/(increase) in bank deposits with maturities of more than three months		931		(753)	
Net cash outflow from investing activities			(11,822)		(10,081)
Net cash inflow before financing activities			6,256		12,293
<b>Financing activities</b>					
	30(B)				
Proceeds from long-term borrowings		7,796		14,004	
Repayment of long-term borrowings		(5,329)		(12,309)	
Increase/(decrease) in short-term borrowings		314		(959)	
Payment of principal portion of lease liabilities		(271)		(200)	
Interest and other finance costs paid		(1,575)		(1,820)	
Settlement of derivative financial instruments		(366)		149	
Decrease in advances from other non-controlling interests		(189)		(323)	
Distributions paid to perpetual capital securities holders		(138)		(103)	
Dividends paid to shareholders		(7,832)		(7,782)	
Dividends paid to other non-controlling interests		(894)		(868)	
Net cash outflow from financing activities			(8,484)		(10,211)
Net (decrease)/increase in cash and cash equivalents			(2,228)		2,082
Cash and cash equivalents at beginning of year			10,158		7,881
Effect of exchange rate changes			(30)		195
<b>Cash and cash equivalents at end of year</b>	20		<b>7,900</b>		<b>10,158</b>

The notes and disclosures on pages 230 to 296 are an integral part of these consolidated financial statements.

# Significant Accounting Policies

Significant accounting policies are included in the corresponding notes to the financial statements or set out below.

## 1. Basis of Preparation

The Company, CLP Holdings Limited, and its subsidiaries are collectively referred to as the Group in the consolidated financial statements.

The consolidated financial statements have been prepared in accordance with Hong Kong Financial Reporting Standards (HKFRS) issued by the Hong Kong Institute of Certified Public Accountants (HKICPA) and requirements of the Hong Kong Companies Ordinance (Cap.622).

The preparation of the consolidated financial statements in conformity with HKFRS requires the use of certain critical accounting estimates. It also requires management to exercise their judgement in the process of applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are especially significant to the consolidated financial statements, are disclosed in relevant notes to the financial statements.

## 2. Changes in Significant Accounting Policies

### (A) Amendments of standards first time adopted in 2021

The Group has initially adopted Interest Rate Benchmark Reform – Phase 2 (Amendments to HKFRS 9, HKAS 39, HKFRS 7, HKFRS 4 and HKFRS 16) from 1 January 2021. The amendments provide practical reliefs which address the financial reporting effects when an interbank offered rate (IBOR) is replaced with an alternative risk-free benchmark rate (the "Reform").

Up to the reporting date, no derivative or non-derivative financial instruments of the Group for which the benchmark rate had been replaced with an alternative benchmark rate. The amendments had no impact on the consolidated financial statements. The Reform also has no material impact on interest rate risk management strategy of the Group.

Negotiations with counterparties are ongoing to evaluate the appropriate changes and resetting of rates where necessary. If the basis for determining the contractual cash flows of a financial asset or financial liability measured at amortised cost changed as a result of interest rate benchmark reform, the Group will update the effective interest rate of the financial asset or financial liability to reflect the change that is required by the Reform.

The Phase 2 amendments also provide a series of temporary exceptions from certain hedge accounting requirements when a change required by the Reform occurs to a hedged item and/or hedging instrument that permits the hedging relationship to be continued without interruption. The Group will apply the following reliefs as and when uncertainty arising from the Reform is no longer present with respect to the timing and amount of the interest rate benchmark-based cash flows of the hedged item or hedging instrument:

- ◆ the Group will amend the designation of a hedging relationship to reflect changes that are required by the Reform without discontinuing the hedging relationship; and
- ◆ when a hedged item in a cash flow hedge is amended to reflect the changes that are required by the Reform, the amount accumulated in the cash flow hedge reserve will be deemed to be based on the alternative benchmark rate on which the hedged future cash flows are determined.

## 2. Changes in Significant Accounting Policies (continued)



### Transition to Phase 2 of the Reform

The Group's assessment of primary exposure to the Reform is related to the debt related cash flow and fair value hedges with cross currency interest rate swaps and / or interest rate swaps based on hedged risk of US dollar London Interbank Offered Rate (LIBOR). At 31 December 2021, it is still not certain when hedged items and hedging instruments will be amended to alternative interest rates, or how this will change the fair values and cash flows on these instruments, which casts uncertainty on the prospective assessment of the effectiveness of hedge accounting. Therefore, in assessing the hedge effectiveness requirements on a forward-looking basis, the Group has assumed that US dollar LIBOR interest rates are not altered by the Reform and has not discontinued the hedges.

The Group has established a project team to manage the transition for any of its contracts that could be affected. Fallback clauses have been introduced to the Group's key contracts as a mitigation measure.

The Group assumes that cash flows associated with designated hedge relationships will continue to be highly probable if LIBOR is replaced with an alternative interest rate. Outstanding interest rate swaps and cross currency interest rate swaps with an aggregate notional amount of HK\$5,773 million equivalent are impacted by the Reform as at 31 December 2021. These swaps have been designated as hedging instruments to hedge against same notional amount of loans as the hedged items. 56% of that notional amount will mature after 30 June 2023 when the Group's applicable US dollar LIBOR rates will either cease or no longer be representative immediately after that date.

### (B) Amendments to standards effective after 2021

The following amendments to standards, which may be applicable to the Group, have been issued and are effective after 2021. The Group has not elected to early adopt these amendments in 2021. The adoption of these amendments is not expected to have any significant impact on the results or the financial position of the Group.

- ◆ Amendments to HKFRS 3 Reference to the Conceptual Framework
- ◆ Amendments to HKFRS 9 Fees in the '10 per cent' Test for Derecognition of Financial Liabilities
- ◆ Amendments to HKFRS 10 and HKAS 28 Sale or Contribution of Assets between an Investor and its Associate or Joint Venture
- ◆ Amendments to HKAS 1 Classification of Liabilities as Current or Non-current
- ◆ Amendments to HKAS 1 and HKFRS Practice Statement 2 Disclosure of Accounting Policies
- ◆ Amendments to HKAS 8 Definition of Accounting Estimates
- ◆ Amendments to HKAS 12 Deferred Tax related to Assets and Liabilities arising from a Single Transaction
- ◆ Amendments to HKAS 16 Property, Plant and Equipment – Proceeds before Intended Use
- ◆ Amendments to HKAS 37 Onerous Contracts – Cost of Fulfilling a Contract
- ◆ HK Interpretation 5 (2020) Presentation of Financial Statements – Classification by the Borrower of a Term Loan that Contains a Repayment on Demand Clause



### 3. Consolidation and Equity Accounting

#### (A) Basis of consolidation

The consolidated financial statements of the Group incorporate the financial statements of the Company and its subsidiaries up to 31 December and include the Group's interests in joint ventures and associates on the basis set out in (B) below.

Subsidiaries are all entities over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power to direct the activities of the entity.

The financial statements of subsidiaries acquired during the year are included in the consolidated financial statements from the date on which control is transferred to the Group. They are de-consolidated from the date that control ceases.

Intercompany transactions, balances and unrealised gains on transactions between Group entities are eliminated on consolidation. Unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Where necessary, to ensure consistency with the policies adopted by the Group, adjustments are made to the financial statements of subsidiaries, joint ventures and associates.

#### (B) Joint ventures and associates

A joint venture is an arrangement in which the Group has joint control, whereby the Group has rights to the net assets of the arrangement, rather than rights to its assets and obligations for its liabilities. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require unanimous consent of the parties sharing control.

An associate is an entity over which the Group has significant influence but not control nor joint control over the financial and operating policies, generally accompanying a shareholding of between 20% and 50% of the voting rights.

Investments in joint ventures/associates are accounted for using the equity method. They are initially recognised at cost. Subsequent to initial recognition, the consolidated financial statements include the Group's share of post-acquisition profit or loss and other comprehensive income, until the date on which joint control or significant influence ceases. Distributions received from an investee reduce the carrying amounts of the investments.

#### (C) Joint operations

A joint operation is an arrangement in which the Group has joint control (as explained in (B) above), whereby the Group has rights to the assets and obligations for the liabilities, relating to the arrangement. When the Group undertakes its activities under a joint operation, the Group as a joint operator recognises its direct right to, and its share of jointly held assets, liabilities, revenues and expenses of the joint operation. They are incorporated in the financial statements under appropriate headings.

#### (D) Change in ownership interests

Transactions with non-controlling interests that do not result in a loss of control are treated as transactions with equity owners of the Group. A change in ownership interest results in an adjustment between the carrying amounts of the controlling and non-controlling interests to reflect their relative interests in the subsidiary. Any difference between the amount of the adjustment to non-controlling interests and any consideration paid or received, and the reattribution of other comprehensive income to non-controlling interests are recognised in a separate reserve within equity attributable to owners of the Group.

When the Group ceases to consolidate or equity account for an investment because of a loss of control, joint control or significant influence, any retained interest in the entity is remeasured to its fair value, with the change in carrying amount recognised in profit or loss. This fair value becomes the initial carrying amount for the purpose of subsequent accounting for the retained interest as a joint venture, associate or financial asset. In addition, any amounts previously recognised in other comprehensive income in respect of that entity are reclassified to profit or loss. Gains or losses on disposals are recognised in profit or loss.

### 3. Consolidation and Equity Accounting (continued)

#### (D) Change in ownership interests (continued)

If the ownership interest in a joint venture or associate is reduced, it is possible that joint control or significant influence is retained or a joint venture becomes an associate. As the Group continues to apply the equity method under both cases, the retained interest is not remeasured. However, a proportionate share of the amounts previously recognised in other comprehensive income of the investment is reclassified to profit or loss where appropriate.



A quick guide to the classification of equity investments:

Control → Subsidiary

Joint control → Joint venture / joint operation

Significant influence → Associate

Less than significant influence → Equity investment

### 4. Impairment of Non-Financial Assets

Non-financial assets that have indefinite useful lives are not subject to amortisation. They are tested for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable and, in any case, at least annually. Non-financial assets that are subject to amortisation are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable.

For the purposes of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows (cash generating units (CGUs)). Goodwill arising from a business combination is allocated to CGUs that are expected to benefit from the synergies of the combination. An impairment loss is recognised for the amount by which the carrying amount of an asset or a CGU exceeds its recoverable amount. The recoverable amount is the higher of the fair value of an asset or a CGU less costs of disposal and its value in use.

An impairment loss recognised in prior years for an asset other than goodwill shall be reversed if, and only if, there is a favourable change in the estimates used to determine the recoverable amount of an asset. A reversal of the impairment loss is limited to the asset's carrying amount (net of accumulated amortisation or depreciation) that would have been determined had no impairment loss been recognised in prior years.

### 5. Inventory

Inventory comprises stores and fuel and is stated at the lower of cost and net realisable value. Cost is calculated on a weighted average basis. Net realisable value is determined on the basis of anticipated sales proceeds less estimated selling expenses.

### 6. Renewable Energy Products

Renewable energy and energy efficiency schemes operate through the creation, trade and surrender of energy products. Renewable energy certificates are recognised upon the risks and rewards being transferred to the Group and are measured at the lower of cost or net realisable value. Cost is calculated on a weighted average basis.

### 7. Employee Benefits

#### (A) Defined contribution plans

The Group operates and/or participates in a number of defined contribution plans. The assets of these plans are held in separate trustee-administered funds. The pension plans are funded by payments from employees and by participating companies of the Group, and provide benefits linked to contributions and investment returns on the plans. The Group has no further legal or constructive payment obligations if the fund does not hold sufficient assets to pay all employees the benefit relating to employee service in the current and prior periods, once the contributions have been paid.

## 7. Employee Benefits (continued)

### (A) Defined contribution plans (continued)

Forfeited contributions (by employers on behalf of employees who leave the scheme prior to vesting fully in such contributions) are not used to offset existing contributions but are credited to a reserve account of that provident fund, and are available for distribution at the discretion of the relevant employers.

Contributions to the defined contribution plans are recognised as expenses in the year to which the contributions relate, except to the extent that they are capitalised as part of the cost of qualifying assets.

### (B) Defined benefit plans

The Group, through its subsidiaries, operates funded defined benefit plans for qualifying employees in Australia and India. Under the plans, the employees are entitled to lump sum benefits on retirement, death, disablement and withdrawal. The level of benefits provided depends on employees' years of service and final average salary. Plan assets held in trusts are governed by local regulations and practice in each country.

The cost of providing benefits under the defined benefit plans is determined using the projected unit credit actuarial valuation method. Past service costs are recognised immediately in profit or loss. Remeasurement gains and losses arising from experience adjustments and changes in actuarial assumptions are recognised directly in other comprehensive income.

The defined benefit asset recognised in the consolidated statement of financial position represents the surplus of the fair value of plan assets over the present value of the defined benefit obligation at the end of the reporting period.



Information of our defined benefit plans can be found in Note 17(c).

### (C) Incentive bonus and employee leave entitlement

Provisions are made for the estimated liability for incentive bonus and employee leave entitlement as a result of services rendered by employees up to the end of the reporting period, where there is a contractual obligation or past practice that has created a constructive obligation.

## 8. Foreign Currency Translation

Items included in the financial statements of each of the Group entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The consolidated financial statements are presented in Hong Kong dollar, which is the Group's presentation currency.

Foreign currency transactions are translated into the relevant functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are remeasured. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation of monetary assets and liabilities denominated in foreign currencies by using the exchange rates at the end of the reporting period are recognised in profit or loss, except when deferred in other comprehensive income as qualifying cash flow hedges or qualifying net investment hedges.

For subsidiaries, joint ventures and associates that have a functional currency different from the Group's presentation currency for the purpose of consolidation, assets and liabilities for each statement of financial position presented are translated using the closing rates at the end of the reporting period, and income and expenses for each statement of profit or loss and other comprehensive income presented are translated at the average exchange rates for the reporting period (unless this average rate is not a reasonable approximation of the cumulative effect of the rates prevailing on the transaction dates, in which case income and expenses are translated at the date of the transactions). All resulting exchange differences are recognised in other comprehensive income and as a separate component of equity.

Reclassifications of gains or losses previously recognised in other comprehensive income to profit or loss are translated by using the exchange rate at the date of reclassification. The remaining reserve balances are translated using the closing rates at the end of the reporting period. Any exchange differences arising from these are taken to retained profits directly.

## 8. Foreign Currency Translation (continued)

Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated using the closing rates at the end of the reporting period.

Upon disposal of a foreign operation (that is, a disposal of the Group's entire interest in a foreign operation, or a disposal involving loss of control over a subsidiary/loss of joint control over a joint venture/loss of significant influence over an associate that includes a foreign operation), all of the exchange differences accumulated in equity in respect of that operation are reclassified to profit or loss.

In the case of a partial disposal that does not result in the Group losing control over a subsidiary that includes a foreign operation, the proportionate share of accumulated exchange differences is re-attributed to non-controlling interests and is not recognised in profit or loss. For all other partial disposals (that is, reductions in the Group's ownership interest in a joint venture or associate that do not result in the Group losing joint control or significant influence) the proportionate share of the accumulated exchange differences is reclassified to profit or loss.



Monetary assets and liabilities are assets to be received and liabilities to be paid in fixed amounts. For example, a trade receivable is a monetary asset (the amount to be received is fixed) but a fixed asset is not a monetary asset because it is uncertain how much you will receive if the fixed asset is sold.



An entity can have both functional currency and presentation currency, however, a consolidation group can only have presentation currency but not functional currency. This is because presentation currency is a matter of choice but functional currency is based on the different primary economic environment in which each group entity operates.

## 9. Leases

The Group assesses at contract inception whether the contract is, or contains, a lease. A contract is, or contains, a lease if it conveys the right to control the use of an identified asset for a period of time in exchange for a consideration.

A contract conveys the right to control the use of an identified asset if the customer has both the right to obtain substantially all the economic benefits from the use of the identified asset and the right to direct the use of the identified asset.

For the Group as a lessor, leases in which the Group does not transfer substantially all the risks and rewards incidental to the ownership of an underlying asset to the customer, are classified as operating lease arrangements. The respective lease assets are included in the financial statements according to their nature. Operating lease payments which vary with operation parameters are recognised as revenue in the period in which they are earned.

For the Group as a lessee, the Group applies a single recognition and measurement approach for all leases, except for short-term leases and leases of low-value assets which are recognised as expenses on a straight-line basis over the lease terms. The Group recognises lease liabilities representing the obligation to make lease payments and right-of-use assets representing the right to use the underlying assets.

## 1. General Information

The Company is a limited liability company incorporated in Hong Kong and listed on the Stock Exchange of Hong Kong. The principal activity of the Company is investment holding, and the principal activities of the subsidiaries are generation and supply of electricity in Hong Kong, Mainland China, Australia and India, and investment holding of power projects in Mainland China, Southeast Asia and Taiwan.

The financial operations of the Company's major subsidiaries, CLP Power Hong Kong Limited (CLP Power Hong Kong) and Castle Peak Power Company Limited (CAPCO) (collectively referred to as SoC Companies), are governed by a SoC Agreement entered into with the Hong Kong Government. Our electricity business in Hong Kong is therefore also referred to as the SoC business. The main features of the current SoC are summarised on pages 297 and 298, which are unaudited.

These financial statements were approved for issue by the Board of Directors on 28 February 2022.

## 2. Revenue

### Accounting Policy

#### (A) Revenue from contracts with customers

Revenues from sales of electricity and gas are recognised when electricity and gas are supplied to and consumed by the customers. Revenues are measured at the amounts billed to the customers based on the periodic cycle meter readings and the estimated accruals for the value of electricity and gas consumed from the meter reading date to the end of the reporting period ("unbilled revenue").

#### (B) Other revenue

Revenue from power purchase agreements represents operating lease income comprising capacity charge and energy charge. Capacity charge is recognised to the extent that capacity has been made available to the offtakers during the year. Energy charge is recognised when electricity is supplied.

### Critical Accounting Estimates and Judgements: Unbilled Retail Revenue

The Group records revenues from retail energy sales using the accrual accounting method. In Hong Kong, the unbilled retail revenue is calculated using estimates including consumption quantity based on electricity sent-out adjusted by loss factors, pattern of residential and non-residential consumption, weather and certain other factors. In Australia, the unbilled retail revenue is calculated based on the electricity purchased and applicable tariffs for the mass market customers, as well as actual meter readings and contracted rates for commercial and industrial customers. The amount is adjusted for physical energy loss and other measurable factors. Unbilled retail revenue of the Group (included in trade and other receivables) totalled HK\$3,186 million at 31 December 2021 (2020: HK\$3,478 million).



## 2. Revenue (continued)

The Group's revenue primarily represents sales of electricity and gas, which is recognised over time, and is disaggregated as follows:

	2021 HK\$M	2020 HK\$M
Revenue from contracts with customers		
Sales of electricity in Hong Kong	45,222	41,798
Transfer for SoC from revenue (Note 25(A))	(1,183)	(660)
SoC sales of electricity	44,039	41,138
Sales of electricity outside Hong Kong	29,719	29,747
Sales of gas in Australia	5,121	5,077
Others	1,174	811
	<b>80,053</b>	<b>76,773</b>
Other revenue		
Power purchase agreements (note)		
Fixed capacity charge	593	607
Variable capacity charge	267	284
Energy charge	2,704	1,587
Others	342	339
	<b>3,906</b>	<b>2,817</b>
	<b>83,959</b>	<b>79,590</b>

Note: Revenue from power purchase agreements (PPAs) relate to 25-year offtake contracts between Jhajjar Power Limited (JPL) and its offtakers. PPAs are accounted for as operating leases with contract prices mainly comprising capacity and energy charges. Certain capacity charge is considered as in-substance fixed payment as it is payable for maintaining availability of the plant for the dispatch of electricity. Energy charge varies according to the amount of fuel consumed in the production of electricity.

The following table sets out a maturity analysis of lease payments, showing the total undiscounted fixed capacity charge to be received by JPL's PPAs after the reporting date:

	2021 HK\$M	2020 HK\$M
Within one year	421	597
Between one and two years	418	426
Between two and three years	410	422
Between three and four years	406	415
Between four and five years	423	410
Over five years	3,646	4,115
	<b>5,724</b>	<b>6,385</b>

## 3. Segment Information

### Accounting Policy

Operating segments are reported in a manner consistent with the internal reporting provided to the Chief Executive Officer, who is the chief operating decision-maker of the Group. In accordance with the Group's internal organisation and reporting structure, the operating segments are based on geographical regions.

Segment revenue is based on the geographical region in which the electricity is generated and / or services are rendered. Segment capital additions represent the total costs incurred during the year to acquire fixed assets and other segment assets that are expected to be used for more than one year. Unallocated items comprise mainly corporate expenses, corporate assets, and the Company's liquid funds and borrowings.

Substantially all the principal activities of the Group in each region are for the generation and supply of electricity which are managed and operated on an integrated basis.

The Group operates, through its subsidiaries, joint ventures and associates, in five major geographical regions – Hong Kong, Mainland China, Australia, India and Southeast Asia and Taiwan.

### 3. Segment Information (continued)

	Hong Kong HK\$M	Mainland China HK\$M	Australia HK\$M	India HK\$M	Southeast Asia & Taiwan HK\$M	Unallocated Items HK\$M	Total HK\$M
<b>For the year ended 31 December 2021</b>							
Revenue from contracts with customers	44,869	1,747	32,215	1,218	4	-	80,053
Other revenue	125	53	56	3,648	-	24	3,906
Revenue	44,994	1,800	32,271	4,866	4	24	83,959
EBITDAF	17,471	1,539	1,230	1,189	296	(819)	20,906
Share of results, net of income tax							
Joint ventures	(20)	(271)	-	-	194	-	(97)
Associates	-	2,071	-	-	-	-	2,071
Consolidated EBITDAF	17,451	3,339	1,230	1,189	490	(819)	22,880
Depreciation and amortisation	(5,507)	(807)	(2,327)	(617)	-	(50)	(9,308)
Fair value adjustments	(20)	-	(477)	-	-	-	(497)
Finance costs	(907)	(253)	(133)	(436)	-	(15)	(1,744)
Finance income	39	14	7	42	-	6	108
Profit/(loss) before income tax	11,056	2,293	(1,700)	178	490	(878)	11,439
Income tax (expense)/credit	(2,040)	(329)	524	(52)	(68)	-	(1,965)
Profit/(loss) for the year	9,016	1,964	(1,176)	126	422	(878)	9,474
Earnings attributable to							
Perpetual capital securities holders	(138)	-	-	-	-	-	(138)
Other non-controlling interests	(789)	(3)	-	(53)	-	-	(845)
Earnings/(loss) attributable to shareholders	8,089	1,961	(1,176)	73	422	(878)	8,491
Excluding: Items affecting comparability	34	-	1,093	148	(249)	-	1,026
Operating earnings	8,123	1,961	(83)	221	173	(878)	9,517
Capital additions	10,443	826	2,666	174	-	47	14,156
Impairment provisions							
Fixed assets	-	-	-	330	-	-	330
Receivables and others	11	-	214	31	-	-	256
<b>At 31 December 2021</b>							
Fixed assets, right-of-use assets and investment property	126,255	9,960	14,551	11,175	-	213	162,154
Goodwill and other intangible assets	5,545	3,675	10,476	14	-	-	19,710
Interests in and loans to joint ventures	1,191	7,531	-	-	1,880	-	10,602
Interests in associates	-	8,769	-	-	-	-	8,769
Deferred tax assets	5	88	246	37	-	-	376
Other assets	12,737	5,375	12,566	3,985	72	3,463	38,198
Total assets	145,733	35,398	37,839	15,211	1,952	3,676	239,809
Bank loans and other borrowings	46,351	5,856	-	6,008	-	-	58,215
Current and deferred tax liabilities	15,655	1,220	7	318	35	-	17,235
Other liabilities	24,291	1,252	11,153	467	2	485	37,650
Total liabilities	86,297	8,328	11,160	6,793	37	485	113,100



EBITDAF stands for earnings before interest, taxes, depreciation and amortisation, and fair value adjustments. For this purpose, fair value adjustments include fair value gains or losses on non-debt related derivative financial instruments relating to transactions not qualifying for hedge accounting and ineffectiveness of cash flow hedges.

Our investments in Mainland China are mainly through joint ventures and associates, whereby under equity method of accounting, CLP shares its proportionate earnings but not the revenues and expenses.

### 3. Segment Information (continued)

	Hong Kong HK\$M	Mainland China HK\$M	Australia HK\$M	India HK\$M	Southeast Asia & Taiwan HK\$M	Unallocated Items HK\$M	Total HK\$M
For the year ended 31 December 2020							
Revenue from contracts with customers	41,776	1,672	32,265	1,054	6	-	76,773
Other revenue	117	36	92	2,562	-	10	2,817
Revenue	41,893	1,708	32,357	3,616	6	10	79,590
EBITDAF	16,288	1,590	4,117	1,481	(13)	(731)	22,732
Share of results, net of income tax							
Joint ventures	(19)	493	(76)	-	399	-	797
Associates	-	1,725	-	-	-	-	1,725
Consolidated EBITDAF	16,269	3,808	4,041	1,481	386	(731)	25,254
Depreciation and amortisation	(5,082)	(747)	(2,000)	(597)	-	(50)	(8,476)
Fair value adjustments	20	-	440	-	-	-	460
Finance costs	(1,012)	(255)	(110)	(486)	-	(10)	(1,873)
Finance income	16	18	22	46	-	34	136
Profit/(loss) before income tax	10,211	2,824	2,393	444	386	(757)	15,501
Income tax expense	(1,870)	(314)	(703)	(106)	-	-	(2,993)
Profit/(loss) for the year	8,341	2,510	1,690	338	386	(757)	12,508
Earnings attributable to							
Perpetual capital securities holders	(138)	-	-	-	-	-	(138)
Other non-controlling interests	(744)	(7)	-	(163)	-	-	(914)
Earnings/(loss) attributable to shareholders							
	7,459	2,503	1,690	175	386	(757)	11,456
Excluding: Items affecting comparability							
	121	-	-	-	-	-	121
Operating earnings	7,580	2,503	1,690	175	386	(757)	11,577
Capital additions	8,322	238	3,649	42	-	117	12,368
Impairment provisions							
Fixed assets	-	-	-	68	-	-	68
Goodwill	-	-	-	12	-	-	12
Receivables and others	19	-	490	10	-	-	519
At 31 December 2020							
Fixed assets, right-of-use assets and investment property	121,874	9,375	14,917	10,118	-	231	156,515
Goodwill and other intangible assets	5,545	3,936	11,064	14	-	-	20,559
Interests in and loans to joint ventures	693	8,104	-	-	2,220	-	11,017
Interests in associates	-	9,181	-	-	-	-	9,181
Deferred tax assets	3	88	460	20	-	-	571
Other assets	10,337	3,699	14,147	4,316	40	3,851	36,390
Total assets	138,452	34,383	40,588	14,468	2,260	4,082	234,233
Bank loans and other borrowings	43,257	5,769	-	5,322	-	-	54,348
Current and deferred tax liabilities	15,515	1,204	104	305	-	-	17,128
Other liabilities	22,886	1,016	11,940	460	2	481	36,785
Total liabilities	81,658	7,989	12,044	6,087	2	481	108,261



Items affecting comparability refer to significant unusual events such as acquisition/disposal, impairment of non-current assets, property valuation gain/loss, provision for legal disputes and change in law or natural catastrophe. They have no impact in assessing the underlying operating performance of the Group and are separately disclosed to allow a better understanding and comparison of the financial results. Details of the items affecting comparability can be found on page 30.

#### 4. Other Charge

On 11 March 2021, EnergyAustralia Holdings Limited (EnergyAustralia) and certain subsidiaries reached a settlement agreement (the Settlement) with Lochard Energy (Iona Operations Holding) Pty Ltd (Lochard Energy) together with certain of its related entities, and QIC Private Capital Pty Ltd (QPC), who acted for Lochard Energy on the relevant transaction and against whom EnergyAustralia made a third party claim. The Settlement was for the full and final settlement of all claims made by Lochard Energy against EnergyAustralia arising from the disposal of Iona Gas Plant. The Settlement included, mainly, payments made by EnergyAustralia to Lochard Energy and QPC (which amounted to HK\$1,110 million (A\$185 million) (after tax: HK\$777 million (A\$130 million))) and secondly, an extension of the existing long term commercial relationship regarding the provision of gas storage services at Iona Gas Plant for EnergyAustralia.

#### 5. Operating Profit

Operating profit is stated after charging/(crediting) the following:

	2021 HK\$M	2020 HK\$M
<b>Charging</b>		
Retirement benefits costs <sup>(a)</sup>	510	462
Auditors' remuneration		
Audit services		
PricewaterhouseCoopers	41	39
Other auditor <sup>(b)</sup>	2	2
Permissible audit related and non-audit services		
PricewaterhouseCoopers <sup>(c)</sup>	10	11
Other auditor <sup>(b)</sup>	-	-
Variable lease expenses	15	10
Net losses on disposal of fixed assets	386	358
Impairment of		
Fixed assets <sup>(d)</sup>	330	68
Goodwill	-	12
Inventories – stores and fuel	12	8
Trade receivables	244	511
Revaluation loss on investment property	34	121
Morwell River Diversion solution <sup>(e)</sup>	452	-
<b>Crediting</b>		
Gain on sale of a subsidiary	(79)	-
Gain on sale of a joint venture <sup>(f)</sup>	(307)	-
Rental income from investment property	(25)	(26)
Dividends from equity investments	(15)	(13)
Net fair value (gains)/losses on non-debt related derivative financial instruments		
Cash flow hedge		
Reclassified from cash flow hedge reserve and cost of hedging reserve to		
Purchases and distributions of electricity and gas	(1,182)	66
Fuel and other operating expenses	(39)	196
Ineffectiveness of cash flow hedge	(100)	(2)
Not qualified for hedge accounting	631	(579)
Fair value (gains)/losses on investments at fair value through profit or loss	(163)	16
Net exchange gains	(8)	(102)

## 5. Operating Profit (continued)

Notes:

- (a) Retirement benefits costs for the year amounted to HK\$652 million (2020: HK\$606 million), of which HK\$142 million (2020: HK\$144 million) was capitalised.
- (b) KPMG India has been the statutory auditor of Apraava Energy Private Limited (Apraava Energy) and its subsidiaries (Apraava Energy group) since April 2017. The Group does not regard KPMG India as a principal auditor of the Group given the relative small quantum of the audit fees, which reflect the scale of operations of Apraava Energy group. Our policy with regard to non-principal auditors for providing non-audit services is to ensure that, within country, the non-audit fees are not paid out of proportion to the audit fees so as to compromise in-country independence. The figure of audit related and non-audit services represented KPMG India's fees charged to Apraava Energy group. Other KPMG offices have also provided services to our businesses in other regions which amounted to HK\$14 million during the year (2020: HK\$16 million).
- (c) Permissible audit related and non-audit services provided by PricewaterhouseCoopers comprised Sustainability Report limited assurance, Continuing Connected Transactions limited assurance, limited assurance over EnergyAustralia's regulatory reviews and reporting, audits of CLP's provident funds, auditor's attestation and other advisory services.
- (d) During the year, management's view on the long-term outlook of Jhajjar Power Station (Jhajjar) has changed. In particular, management viewed it unlikely that Jhajjar's PPAs with the offtakers would be renewed after their expiry in 2037. An impairment test for Jhajjar was performed and an impairment provision for fixed assets of HK\$330 million (Rs3,145 million) (after tax: HK\$247 million or Rs2,353 million) was recognised as at 31 December 2021 (2020: nil). The recoverable amount tested for impairment has been determined based on a value in use calculation. An estimated pre-tax discount rate of 11.13% was used in estimating Jhajjar's value in use. In forecasting cash flows, management has restricted the time period of the PPAs. Management does not consider that reasonably possible changes in assumptions would have a material impact on the recoverable amount.
- (e) During June 2021, exceptionally heavy rainfall was recorded throughout the Latrobe Valley region where the Yallourn coal-fired power station and mine are located. The rain resulted in heightened water flows through the Morwell River Diversion (MRD) which runs through the Yallourn mine site. While there was no flooding in the mine, cracks were discovered in the MRD structures. Examination of the extent of the damage to the MRD along with potential rectification options is being progressed and is expected to be completed by mid-2022. Total expenditure of HK\$452 million (A\$78 million) (after tax: HK\$316 million or A\$54 million) was recognised for immediate repairs and damage assessment. At 31 December 2021, although longer-term rectification works were still dependent on the outcome following completion of dewatering assessment activities and the respective agreement with the government, no material outflow of economic benefit was expected.
- (f) Upon the financial close of Vung Ang II, a legacy coal-fired project in Vietnam, in November 2021, the Group received the contingent and remaining consideration from the sale of its entire interest in a joint venture, OneEnergy Asia Limited, and a gain of HK\$307 million (after tax: HK\$249 million) was recognised.

## 6. Finance Costs and Income

### Accounting Policy

Borrowing costs are recognised as an expense in the year in which they are incurred, except to the extent that they are capitalised when they are directly attributable to the acquisition, construction or production of an asset which necessarily takes a substantial period of time to get ready for its intended use.

Interest and other finance income is recognised on a time proportion basis using the effective interest method.

## 6. Finance Costs and Income (continued)

	2021 HK\$M	2020 HK\$M
Finance costs		
Interest expenses on		
Bank loans and overdrafts	522	738
Other borrowings	1,118	1,106
Tariff Stabilisation Fund <sup>(a)</sup>	3	18
Customers' deposits and fuel clause over-recovery	-	32
Lease liabilities	57	37
Net fair value changes on debt related derivative financial instruments		
Cash flow hedge		
Reclassified from cash flow hedge reserve	316	(261)
Reclassified from cost of hedging reserve	(8)	5
Ineffectiveness of cash flow hedges	1	2
Fair value hedge		
Net fair value losses/(gains)	193	(303)
Reclassified from cost of hedging reserve	14	14
Ineffectiveness of fair value hedges	-	1
Not qualified for hedge accounting	10	36
Net fair value (gains)/losses on hedged items in fair value hedges	(193)	303
Net exchange (gains)/losses on financing activities	(175)	247
Finance charges	203	204
	<b>2,061</b>	<b>2,179</b>
Less: amount capitalised <sup>(b)</sup>	(317)	(306)
	<b>1,744</b>	<b>1,873</b>
Finance income		
Interest income on		
Bank deposits	59	108
Loans to joint ventures and others	49	28
	<b>108</b>	<b>136</b>

Notes:

(a) In accordance with the provisions of the SoC Agreement, CLP Power Hong Kong is required to credit, to a Rate Reduction Reserve in its financial statements, a charge of the average of one-month Hong Kong Interbank Offered Rate on the average balance of the Tariff Stabilisation Fund (Note 25(B)).

(b) Finance costs of the Group's general borrowings have been capitalised at average interest rates of 2.64% – 4.32% (2020: 2.92% – 4.81%) per annum.

## 7. Income Tax Expense

Income tax in the consolidated statement of profit or loss represents the income tax of the Company and subsidiaries and is analysed below:

	2021 HK\$M	2020 HK\$M
Current income tax	1,720	2,529
Deferred tax	245	464
	<b>1,965</b>	<b>2,993</b>

Hong Kong profits tax has been provided at the rate of 16.5% (2020: 16.5%) on the estimated assessable profits for the year. Income tax on profits assessable outside Hong Kong has been provided at the rates prevailing in the respective jurisdictions.

The income tax on the Group's profit before income tax differs from the theoretical amount that would arise using the Hong Kong profits tax rate as follows:

	2021 HK\$M	2020 HK\$M
Profit before income tax	11,439	15,501
Less: Share of results of joint ventures and associates, net of income tax	(1,974)	(2,522)
	<b>9,465</b>	<b>12,979</b>
Calculated at an income tax rate of 16.5% (2020: 16.5%)	1,562	2,142
Effect of different income tax rates in other countries	14	529
Income not subject to tax	(115)	(90)
Expenses not deductible for tax purposes*	616	286
Revenue adjustment for SoC not subject to tax	195	109
(Over)/under-provision in prior years*	(312)	11
Tax losses not recognised	5	6
Income tax expense	<b>1,965</b>	<b>2,993</b>

\* Included the tax implication of HK\$333 million in relation to the settlement of claims arising from the disposal of Iona Gas Plant (Note 4). The Settlement is treated as a non-deductible expense in current year with a corresponding adjustment to the prior year's tax return when the initial sales proceeds were recognised in 2015.

## 8. Dividends

	2021		2020	
	HK\$ per Share	HK\$M	HK\$ per Share	HK\$M
First to third interim dividends paid	1.89	4,775	1.89	4,775
Fourth interim dividend declared	1.21	3,057	1.21	3,057
	<b>3.10</b>	<b>7,832</b>	<b>3.10</b>	<b>7,832</b>

At the Board meeting held on 28 February 2022, the Directors declared the fourth interim dividend of HK\$1.21 per share (2020: HK\$1.21 per share). The fourth interim dividend is not reflected as a dividend payable in the financial statements.



## 9. Earnings per Share

The earnings per share are computed as follows:

	2021	2020
Earnings attributable to shareholders (HK\$M)	8,491	11,456
Weighted average number of shares in issue (thousand shares)	2,526,451	2,526,451
Earnings per share (HK\$)	3.36	4.53

Basic and fully diluted earnings per share are the same as the Company did not have any dilutive equity instruments throughout the years ended 31 December 2021 and 2020.

## 10. Fixed Assets

### Accounting Policy

Fixed assets are stated at cost less accumulated depreciation and accumulated impairment losses. Cost includes expenditure that is directly attributable to the acquisition of the fixed asset. Cost may also include transfer from equity of any gains/losses on qualifying cash flow hedges of foreign currency purchases of fixed assets. Subsequent costs are included in the asset's carrying amount or recognised as a separate asset, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. For any asset replacement, the carrying amount of the replaced part is derecognised. All other repairs and maintenance are recognised as expenses in the period in which they are incurred.

Depreciation of fixed assets is calculated, using the straight-line method, to allocate their costs to their estimated residual values over their estimated useful lives. The estimated useful lives of the fixed assets are set out below:

	SoC fixed assets	Non-SoC fixed assets
Freehold land	not applicable	not depreciable
Cable tunnels	100 years	30 years
Buildings and civil structures at power stations	35 years	20 – 50 years
Ash lagoon	35 years	20 – 40 years
Other buildings and civil structures	60 years	10 – 60 years
Generating plants	25 – 45 years*	10 – 41 years
Overhead lines (33kV and above)	60 years	20 – 40 years
Overhead lines (below 33kV)	45 years	18 – 20 years
Cables	60 years	10 – 30 years
Switchgear and transformers	50 years	15 – 35 years
Substation miscellaneous	25 years	15 – 20 years
Meters	15 years	10 – 15 years
Other equipment, furniture and fittings, motor vehicles and marine crafts	5 – 10 years	2 – 30 years

\* Useful lives of certain generating plants have been extended by 10 – 20 years after mid-life refurbishments

The assets' residual values and useful lives are reviewed and adjusted, if appropriate, at the end of each reporting period. For plant under construction, no depreciation is provided until the construction is completed and the assets are ready for their intended use. An asset's carrying amount is written down immediately to its estimated recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount. The gain or loss on disposal of a fixed asset is the difference between the net sales proceeds and the carrying amount of the relevant asset, and is recognised in profit or loss.

## 10. Fixed Assets (continued)

### Critical Accounting Estimates and Judgements

#### (A) Assessment of the Carrying Value of Generation Assets in Australia

Given continued changes in the National Electricity Market (NEM) in Australia and changes in the supply and demand equilibrium, risk is introduced in market modelling which heightens the criticality of this judgement area. As part of making these critical judgements, risks do exist in the assumptions made around supply and demand with regard to the Group's generation assets in Australia. In certain circumstances, where demand expectations and supply side responses vary substantially from the assumptions made, particularly in regard to the transition to renewable energy sources and uses, significant changes in the value of the assets could eventuate.

When determining the recoverable amount of the generation assets, scenarios are produced which reflect a range of economic conditions that could exist over the life of the CGU. The scenarios consider a broad range of outcomes including increased renewable generation, emissions reduction and carbon pricing schemes, potential regulatory changes and the impact to the useful lives of the Group's generation assets. The scenarios are then considered in terms of likelihood to arrive at management's best estimate of recoverable amount.

Key estimates and assumptions for assessing the carrying value of the generation assets are as follows:

- ◆ Critical judgement exists in estimating forward electricity pool prices (the forward curve), generation volumes, retail volumes, gas prices and long-term assumptions around market movements and growth rates. A terminal growth rate, informed by expectations around the lives of generation assets and market expectations, has been used when estimating cash flows beyond a period of ten years. The forward curve has a significant impact on the accounting for certain items including value in use calculations for impairment purposes.
- ◆ Operating costs are escalated by relevant cost drivers using activity-based costing principles. Non-contracted fuel costs are based on management's estimate of future fuel prices.

The impairment testing result of the Group's generation CGU in Australia suggests that minimal headroom remains. As a result, any material adverse shift in a key assumption is likely to result in a potential impairment. The Group will continually perform the generation CGU valuation as the market and the Group transition towards a cleaner energy future.

Management particularly considers the generation CGU to be highly sensitive to a weakening of expected long-term wholesale prices and a further accelerated exit for the Mount Piper power station. A further shortening of Mount Piper power station's expected life or decrease in long-term wholesale prices whilst holding all other assumptions static, could result in the carrying value of the CGU no longer being supported.

#### (B) Assessment of the Carrying Values of Fixed Assets and Right-of-use Assets in Other Regions

The Group has also made substantial investments in fixed assets and right-of-use assets (mainly leasehold land and land use rights) in other regions. The Group conducts impairment reviews of these assets whenever events or changes in circumstances indicate that their carrying amounts may not be recoverable.

Determining whether an asset or a CGU should be impaired requires an estimation of the recoverable amount, which requires the Group to estimate the future cash flows, a growth rate (that reflects the economic environments in which the Group operates) and a pre-tax discount rate (that reflects the current market assessments of the time value of money and the risks specific to the asset) in order to calculate the present value. Where the present value of the expected cash flows is less than the asset's carrying amount, an impairment loss may arise. During 2021, after reviewing the business environment as well as the Group's strategies and past performance of the investments, management concluded that there was an impairment for fixed assets of HK\$330 million relating to Jhajjar (Note 5(d)).

## 10. Fixed Assets (continued)

Fixed assets included assets under construction with book value of HK\$14,744 million (2020: HK\$9,769 million). The movements during the year are set out below:

	Freehold Land HK\$M	Buildings HK\$M	Plant, Machinery and Equipment HK\$M	Total HK\$M
Net book value at 1 January 2020	1,181	21,264	121,170	143,615
Acquisitions of subsidiaries	49	-	532	581
Additions	-	1,325	9,363	10,688
Transfers and disposals	(91)	(44)	(483)	(618)
Depreciation	-	(738)	(6,458)	(7,196)
Impairment charge	(11)	-	(57)	(68)
Exchange differences	6	181	1,265	1,452
Net book value at 31 December 2020	1,134	21,988	125,332	148,454
Cost	1,247	36,574	230,720	268,541
Accumulated depreciation and impairment	(113)	(14,586)	(105,388)	(120,087)
Net book value at 31 December 2020	1,134	21,988	125,332	148,454
Net book value at 1 January 2021	1,134	21,988	125,332	148,454
Acquisition of a subsidiary (note)	-	1	1,910	1,911
Disposal of a subsidiary	-	-	(10)	(10)
Additions	-	1,304	11,846	13,150
Transfers and disposals	(1)	(78)	(430)	(509)
Depreciation	-	(816)	(7,327)	(8,143)
Impairment charge	-	(44)	(286)	(330)
Exchange differences	(25)	53	(493)	(465)
<b>Net book value at 31 December 2021</b>	<b>1,108</b>	<b>22,408</b>	<b>130,542</b>	<b>154,058</b>
Cost	1,215	37,795	240,885	279,895
Accumulated depreciation and impairment	(107)	(15,387)	(110,343)	(125,837)
<b>Net book value at 31 December 2021</b>	<b>1,108</b>	<b>22,408</b>	<b>130,542</b>	<b>154,058</b>

Note: In December 2021, the Group acquired 49% interest in Kohima-Mariani Transmission Limited (KMTL) for a consideration of HK\$342 million (Rs3,331 million), with an option to acquire the remaining 51% interest in subsequent years. KMTL owns and operates 251km of 400kV transmission lines in Manipur, Nagaland and Assam States, India. KMTL is treated as a subsidiary because the Group has control over the company from an accounting perspective. The Group considers that the combination of call and put options gives the Group access to the returns over the remaining 51% interest in KMTL. The transaction is accounted for as an asset acquisition since substantially all of the fair value of the gross assets acquired was primarily concentrated in the transmission assets.



On 9 March 2021, EnergyAustralia entered into an agreement with the State Government of Victoria, Australia on the advanced retirement of the Yallourn coal-fired power station to mid-2028 (four years prior to the end of its technical life). In September 2021, EnergyAustralia announced the accelerated exit of the Mount Piper coal-fired power station in New South Wales by three years, as part of a plan to accelerate its exit from coal generation. As a result, the estimated useful lives of relevant fixed assets were revised with an increase of depreciation of HK\$191 million (A\$33 million) charged to profit or loss in 2021.

## 11. Right-of-Use Assets

### Accounting Policy

The Group as a lessee recognises right-of-use assets at the commencement date of the lease (i.e. the date the underlying asset is available for use). Right-of-use assets are measured at cost, less any accumulated depreciation and impairment losses, and adjusted for any remeasurement of lease liabilities. The cost of right-of-use assets includes the amount of lease liabilities recognised, initial direct costs incurred, and lease payments made at or before the commencement date less any lease incentives received. Right-of-use assets are depreciated on a straight-line basis over the shorter of the lease term or the estimated useful lives of the assets.

The Group has lease contracts for land and buildings and various items of plant, machinery and equipment used in its operations. The movements during the year are set out below:

	Prepaid Leasehold Land <sup>(a)</sup> HK\$M	Land and Buildings <sup>(b)</sup> HK\$M	Plant, Machinery and Equipment <sup>(b)</sup> HK\$M	Total HK\$M
Net book value at 1 January 2020	5,782	187	81	6,050
Acquisition of a subsidiary	–	1	3	4
Additions	7	618	604	1,229
Depreciation	(196)	(129)	(27)	(352)
Exchange differences	10	51	69	130
Net book value at 31 December 2020	5,603	728	730	7,061
Net book value at 1 January 2021	5,603	728	730	7,061
Acquisition of a subsidiary	3	–	–	3
Additions	456	19	19	494
Transfers and disposals	–	–	(23)	(23)
Depreciation	(202)	(96)	(44)	(342)
Exchange differences	4	(33)	(34)	(63)
<b>Net book value at 31 December 2021</b>	<b>5,864</b>	<b>618</b>	<b>648</b>	<b>7,130</b>

Notes:

- (a) Prepaid leasehold land represents upfront lease payments, including land premium, on lease of land with the tenure of 20 to 75 years.
- (b) The Group has leased several assets including a water treatment plant, offices and battery storage facilities. Lease terms are negotiated on an individual basis and contain a wide range of terms and conditions. Tenures of the leases range from 2 to 30 years.

## 12. Investment Property

### Accounting Policy

Investment properties include properties that are being constructed or developed for future use as investment properties. Land held under an operating lease is accounted for as an investment property when the rest of the definition of an investment property under the accounting standard is met. Investment properties are measured initially at cost, including related transaction costs. Subsequent to initial recognition, investment properties are measured at fair value, unless they are still in the course of construction or development at the end of the reporting period and their fair value cannot be reliably measured at that time. Fair value is based on active market prices, adjusted, if necessary, for any difference in the nature, location or condition of the specific asset. If the information is not available, the Group uses alternative valuation methods such as recent prices on less active markets or discounted cash flow projections. Any gains and losses arising from changes in the fair value or from the retirement or disposal of an investment property are recognised in profit or loss in the period in which they arise.

## 12. Investment Property (continued)

	2021 HK\$M	2020 HK\$M
At 1 January	1,000	1,121
Revaluation loss	(34)	(121)
At 31 December	<b>966</b>	1,000

Investment property represents the commercial interest of the retail portion of the Laguna Mall in Hong Kong, which is leased out by the Group under operating leases.

Investment property was valued by Cushman & Wakefield Limited (Cushman), an independent qualified valuer, who holds recognised relevant professional qualifications and has recent experience in the locations and segments of the investment property valued.

Cushman has valued the property at 31 December 2021 by using the income capitalisation approach, cross-referenced with comparable market transactions. The income capitalisation approach is based on the capitalisation of the existing rental/licence income and potential reversionary income over the remaining tenure of the property from the date of valuation at appropriate capitalisation rates that by reference to the yields achieved in analysed market sales transactions and as expected by investors. The significant unobservable input is the capitalisation rates adopted for the valuation which are ranging from 3.90% to 4.15% (2020: 3.90% to 4.15%). The fair value is negatively correlated to the capitalisation rate.

The fair value measurement of the Group's investment property is categorised within Level 3 of the fair value hierarchy at 31 December 2021 and 2020.

## 13. Goodwill and Other Intangible Assets

### Accounting Policy

#### (A) Goodwill

Goodwill arises from the acquisition of subsidiaries and represents the excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired.

For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the CGUs, or groups of CGUs, that is expected to benefit from the synergies of the combination. Each CGU or group of CGUs to which the goodwill is allocated represents the lowest level within the entity at which the goodwill is monitored for internal management purposes. Goodwill is monitored at the operating segment level.

Goodwill impairment reviews are undertaken at least annually or if events or changes in circumstances indicate a potential impairment. The carrying value of the CGU containing the goodwill is compared to the recoverable amount, which is the higher of value in use and the fair value less costs of disposal. Any impairment is recognised immediately as an expense and cannot be subsequently reversed.

#### (B) Other intangible assets

Intangible assets other than goodwill are measured initially at cost or, if acquired in a business combination, fair value at the acquisition date. An intangible asset with a finite useful life is amortised on a straight-line basis over its useful life and carried at cost less accumulated amortisation and accumulated impairment losses.

## 13. Goodwill and Other Intangible Assets (continued)

### Critical Accounting Estimates and Judgements: Goodwill Impairment

The recoverable amounts of CGUs with allocated goodwill are determined based on value in use calculations, which use cash flow projections as at 31 December 2021. These cash flow projections are derived from the approved business plan which has considered ongoing cost optimisation initiatives and a forecast covering a period of ten years which have incorporated necessary updates. Projections for a period of greater than five years have been used on the basis that a longer projection period represents the long-dated nature of our generation and electricity supply assets and a more appropriate reflection of future cash flows from potential legislative, regulatory and structural changes in the industry.

#### Energy retail business in Australia

#### **Key assumptions for value in use calculations**

The key assumptions used in the value in use calculations reflect a combination of internal and external factors impacting gross margin, number of customer accounts and discount rates.

The assumptions impacting gross margin include:

- ◆ Retail tariffs are sensitive to regulatory changes including regulation and deregulation, and based on management estimates and expectations of current and expected market conditions arising from known and potential regulatory outcomes.
- ◆ Electricity and gas volumes for purchases and sales in the short term represent the forecast projections in EnergyAustralia's Business Plan. External information is used to verify and align internal estimates.
- ◆ Electricity and gas network (transmission and distribution) cost assumptions are based on published regulated prices. When no estimates are available, network costs are assumed to escalate by the relevant consumer price index.
- ◆ Electricity pool prices, generation volumes, dispatch levels and gas prices were derived using modelling of the electricity and gas wholesale markets. NEM modelling is prepared internally using, where possible, observable inputs. The modelling used for the electricity and gas wholesale markets is based on experience and observable market activity.

Other assumptions include:

- ◆ The number of customer accounts in the short term for electricity and gas aligns with EnergyAustralia's Business Plan.
- ◆ The cash flow projections are discounted using a pre-tax discount rate of 9.9% (2020: 9.9%). The discount rates reflect the current market assessments of the time value of money and are based on the estimated cost of capital.
- ◆ A long term growth rate of 2.8% (2020: 2.5%) is applied in the terminal value calculation after the first ten years of cash flows.

### 13. Goodwill and Other Intangible Assets (continued)

#### Critical Accounting Estimates and Judgements: Goodwill Impairment (continued)

##### Energy retail business in Australia (continued)

##### **Sensitivity analysis for the energy retail CGU valuation**

When undertaking the value in use calculation of our retail CGU at year end, the results indicate that marginal headroom remains. The energy retail CGU valuation is sensitive to certain key assumptions, in particular, gross margin and customer accounts growth. Both retail tariffs and customer account growth assumptions are judgemental and have a direct impact on our CGU valuation. Movements in discount rates, whilst driven by different assumptions, would also have an impact.

- ◆ A 5% decrease in long term gross margin would decrease the recoverable amount by HK\$1,896 million (A\$335 million).
- ◆ A 1% decrease in long term annual customer growth rate would decrease the recoverable amount by HK\$1,823 million (A\$322 million).
- ◆ An increase in the discount rate of 0.5% would decrease the recoverable amount by HK\$1,783 million (A\$315 million).

These sensitivities are based on a change in the relevant assumption while holding other assumptions constant. In practice, this is unlikely to occur and changes in some of the assumptions may be correlated. As a result of the marginal headroom, any material adverse shift in a key assumption without any favourable valuation movement is likely to result in a potential impairment. Up to the date of this report, there were no confirmed material changes in any of the key assumptions mentioned above that would have caused the recoverable amount to be less than its carrying value.

##### Hong Kong electricity business

The key assumptions used in the value in use calculation are as follows:

- ◆ Goodwill arising from the CAPCO acquisition has been allocated to CLP Power Hong Kong and CAPCO as a combined CGU as the acquisition is considered beneficial to the whole SoC business.
- ◆ The electricity tariff for the supply of electricity in meeting the demand of customers in Hong Kong over the forecast periods is determined with reference to the rate-setting mechanism under the SoC.
- ◆ The forecast for electricity demand is based on the load forecast to support local infrastructure development and meeting customer load requirements, maintaining safety and supply reliability, and meeting environmental requirements.
- ◆ Expenditures for the supply of electricity in meeting the forecast demand are based on committed purchase contracts where applicable, and inputs on cost trends specific to the electricity business in Hong Kong. Such forecast aligns with the projection in the Business Plan for our Hong Kong electricity business, with capital expenditures for the periods to year 2023 aligned with those forecasted in the approved Development Plan.
- ◆ Terminal value of the CGU is adopted to estimate the cash flows to be generated for the periods beyond ten years. This is expressed as a multiple of net asset values which corresponds to our return model based on fixed assets investment. The terminal value is a multiple of 1.2 times of the net asset values forecasted as at the end of 2031.
- ◆ The cash flow projections are discounted using a pre-tax discount rate of 9.82% (2020: 9.80%), or a post-tax return of 8.00% (2020: 8.00%) which reflects the SoC return rate applicable to the electricity business in Hong Kong.

Up to the date of this report, there were no reasonably possible changes in any of the key assumptions mentioned above that would have caused the recoverable amount of this CGU to be less than its carrying value.



### 13. Goodwill and Other Intangible Assets (continued)

	Goodwill <sup>(a)</sup> HK\$M	Capacity Right <sup>(b)</sup> HK\$M	Others HK\$M	Total HK\$M
Net carrying value at 1 January 2020	14,128	4,166	1,817	20,111
Acquisition of a subsidiary	42	-	-	42
Additions	-	11	440	451
Disposals	-	-	(35)	(35)
Amortisation	-	(276)	(652)	(928)
Impairment charge	(12)	-	-	(12)
Exchange differences	788	-	142	930
Net carrying value at 31 December 2020	14,946	3,901	1,712	20,559
Cost	22,033	5,727	8,276	36,036
Accumulated amortisation and impairment	(7,087)	(1,826)	(6,564)	(15,477)
Net carrying value at 31 December 2020	14,946	3,901	1,712	20,559
Net carrying value at 1 January 2021	14,946	3,901	1,712	20,559
Additions	-	16	496	512
Disposals	-	-	(2)	(2)
Amortisation	-	(279)	(544)	(823)
Exchange differences	(455)	-	(81)	(536)
<b>Net carrying value at 31 December 2021</b>	<b>14,491</b>	<b>3,638</b>	<b>1,581</b>	<b>19,710</b>
Cost	21,232	5,743	6,286	33,261
Accumulated amortisation and impairment	(6,741)	(2,105)	(4,705)	(13,551)
<b>Net carrying value at 31 December 2021</b>	<b>14,491</b>	<b>3,638</b>	<b>1,581</b>	<b>19,710</b>

Notes:

- (a) Goodwill mainly arose from the acquisitions of energy retail business in Australia of HK\$8,854 million (2020: HK\$9,308 million) and the acquisition of CAPCO under Hong Kong electricity business of HK\$5,545 million (2020: HK\$5,545 million).
- (b) Capacity right represents the right to use 50% of the pumped storage capacity of Phase I of the Guangzhou Pumped Storage Power Station in Conghua, Guangzhou and the corresponding right to use the associated transmission facilities until 2034.

## 14. Interests in and Loans to Joint Ventures Accounting Policy No. 3(B)

The table below lists the material joint ventures of the Group at 31 December 2021:

Name	% of Ownership Interest at 31 December 2020 and 2021	Place of Incorporation / Business	Principal Activity
CSEC Guohua International Power Company Limited (CSEC Guohua) <sup>(a)</sup>	30	Mainland China	Generation of electricity
CLP Guangxi Fangchenggang Power Company Limited (Fangchenggang) <sup>(b)</sup>	70 <sup>(c)</sup>	Mainland China	Generation of electricity
Hong Kong LNG Terminal Limited (HKLTL)	49 <sup>(d)</sup>	Hong Kong	Development, construction, operation, maintenance and owning of LNG terminal and provision of related services
OneEnergy Taiwan Ltd (OneEnergy Taiwan) <sup>(e)</sup>	50	British Virgin Islands / Taiwan	Investment holding
ShenGang Natural Gas Pipeline Company Limited (SNGPC) <sup>(b)</sup>	40	Mainland China	Natural gas transportation
Shandong Zhonghua Power Company, Ltd. (SZPC) <sup>(f)</sup>	29.4	Mainland China	Generation of electricity

Notes:

- (a) Registered as Sino-Foreign Joint Stock Company under People's Republic of China (PRC) law
- (b) Registered as Sino-Foreign Equity Joint Venture Enterprise under PRC law
- (c) Under the joint venture agreement, none of the joint venture partners has unilateral control over the economic activities of Fangchenggang and hence, the Group's interest is accounted for as a joint venture
- (d) HKLTL is 70% owned by CAPCO which is 70% owned by CLP Power Hong Kong
- (e) OneEnergy Taiwan indirectly owns 40% interest in Ho-Ping Power Company
- (f) Registered as Sino-Foreign Cooperative Joint Venture Enterprise under PRC law



More detailed information of our joint ventures can be found on "Our Portfolio" on pages 308 to 311 of the Annual Report.

## 14. Interests in and Loans to Joint Ventures (continued)

Summarised financial information of joint ventures and the Group's share of results and net assets are as follows:

	CSEC Guohua HK\$M	Fang- chenggang HK\$M	HKLTL HK\$M	OneEnergy Taiwan HK\$M	SNGPC HK\$M	SZPC HK\$M	Others HK\$M	Total HK\$M
<b>For the year ended 31 December 2021</b>								
Revenue	14,433	4,395	1	-	1,115	5,892	1,356	27,192
Depreciation and amortisation	(1,411)	(250)	-	-	(194)	(1,173)	(480)	(3,508)
Interest income	11	12	-	-	2	1	2	28
Interest expense	(199)	(232)	-	-	(17)	(85)	(48)	(581)
Other expenses	(14,151)	(4,106)	(1)	(3)	(177)	(5,919)	(374)	(24,731)
Share of results of joint ventures	-	-	-	252	-	-	(29)	223
(Loss)/profit before income tax	(1,317)	(181)	-	249	729	(1,284)	427	(1,377)
Income tax credit/(expense)	393	46	-	-	(184)	167	(113)	309
(Loss)/profit for the year	(924)	(135)	-	249	545	(1,117)	314	(1,068)
Non-controlling interests	431	-	-	-	-	-	-	431
(Loss)/profit for the year attributable to shareholders	(493)	(135)	-	249	545	(1,117)	314	(637)
(Loss)/profit for the year	(924)	(135)	-	249	545	(1,117)	314	(1,068)
Other comprehensive income	-	-	-	-	-	-	(20)	(20)
Total comprehensive income	(924)	(135)	-	249	545	(1,117)	294	(1,088)
Group's share								
(Loss)/profit for the year attributable to shareholders	(148)	(95)	-	124	218	(328)	132	(97)
Other comprehensive income	-	-	-	-	-	-	(4)	(4)
Total comprehensive income	(148)	(95)	-	124	218	(328)	128	(101)
Dividend income from joint ventures	13	46	-	501	91	72	158	881
<b>For the year ended 31 December 2020</b>								
Revenue	11,688	3,934	1	-	949	4,662	1,516	22,750
Depreciation and amortisation	(1,368)	(230)	-	-	(179)	(964)	(433)	(3,174)
Interest income	9	9	-	-	2	1	3	24
Interest expense	(198)	(242)	-	-	(29)	(101)	(63)	(633)
Other expenses	(9,933)	(3,025)	(1)	(2)	(163)	(3,525)	(789)	(17,438)
Share of results of joint ventures	-	-	-	732	-	-	(2)	730
Profit before income tax	198	446	-	730	580	73	232	2,259
Income tax expense	(77)	(113)	-	-	(145)	(105)	(119)	(559)
Profit/(loss) for the year	121	333	-	730	435	(32)	113	1,700
Non-controlling interests	(123)	-	-	-	-	-	-	(123)
(Loss)/profit for the year attributable to shareholders	(2)	333	-	730	435	(32)	113	1,577
Profit/(loss) for the year	121	333	-	730	435	(32)	113	1,700
Other comprehensive income	-	-	-	-	-	-	4	4
Total comprehensive income	121	333	-	730	435	(32)	117	1,704
Group's share								
(Loss)/profit for the year attributable to shareholders	(1)	234	-	365	174	(9)	34	797
Other comprehensive income	-	-	-	-	-	-	2	2
Total comprehensive income	(1)	234	-	365	174	(9)	36	799
Dividend income from joint ventures	43	252	-	9	140	52	125	621

## 14. Interests in and Loans to Joint Ventures (continued)

	CSEC Guohua HK\$M	Fang- chenggang HK\$M	HKLTL HK\$M	OneEnergy Taiwan HK\$M	SNGPC HK\$M	SZPC HK\$M	Others HK\$M	Total HK\$M
<b>At 31 December 2021</b>								
Non-current assets	20,691	7,811	2,105	3,302	3,848	4,187	4,664	46,608
Current assets								
Cash and cash equivalents	1,647	473	1	7	251	-	297	2,676
Other current assets	1,811	1,085	1	2	75	1,202	1,292	5,468
	3,458	1,558	2	9	326	1,202	1,589	8,144
Current liabilities								
Financial liabilities <sup>(a)</sup>	(3,528)	(642)	-	-	(169)	(2,649)	(175)	(7,163)
Other current liabilities <sup>(a)</sup>	(1,942)	(758)	(517)	-	(276)	(2,679)	(444)	(6,616)
	(5,470)	(1,400)	(517)	-	(445)	(5,328)	(619)	(13,779)
Non-current liabilities								
Financial liabilities <sup>(a)</sup>	(2,645)	(4,917)	-	-	(146)	(50)	(686)	(8,444)
Shareholders' loans	-	-	(1,590)	-	-	-	(30)	(1,620)
Other non-current liabilities <sup>(a)</sup>	(1,934)	(58)	-	-	(702)	(11)	(19)	(2,724)
	(4,579)	(4,975)	(1,590)	-	(848)	(61)	(735)	(12,788)
Non-controlling interests	(6,150)	-	-	-	-	-	-	(6,150)
Net assets	7,950	2,994	-	3,311	2,881	-	4,899	22,035
Group's share of net assets	2,385	2,095	-	1,655	1,152	-	2,152	9,439
Goodwill	-	-	-	-	-	-	35	35
Interests in joint ventures	2,385	2,095	-	1,655	1,152	-	2,187	9,474
Loans to joint ventures	-	-	1,113 <sup>(b)</sup>	-	-	-	15	1,128
	2,385	2,095	1,113	1,655	1,152	-	2,202	10,602
<b>At 31 December 2020</b>								
Non-current assets	20,619	7,780	699	3,459	3,796	3,490	5,613	45,456
Current assets								
Cash and cash equivalents	1,158	696	-	535	143	70	440	3,042
Other current assets	1,328	779	231	2	32	916	1,148	4,436
	2,486	1,475	231	537	175	986	1,588	7,478
Current liabilities								
Financial liabilities <sup>(a)</sup>	(1,991)	(421)	-	-	(323)	(1,314)	(424)	(4,473)
Other current liabilities <sup>(a)</sup>	(1,521)	(799)	(3)	-	(254)	(822)	(402)	(3,801)
	(3,512)	(1,220)	(3)	-	(577)	(2,136)	(826)	(8,274)
Non-current liabilities								
Financial liabilities <sup>(a)</sup>	(2,944)	(4,862)	-	-	-	(951)	(1,052)	(9,809)
Shareholders' loans	-	-	(927)	-	(161)	-	(18)	(1,106)
Other non-current liabilities <sup>(a)</sup>	(1,842)	(58)	-	-	(734)	(16)	(19)	(2,669)
	(4,786)	(4,920)	(927)	-	(895)	(967)	(1,089)	(13,584)
Non-controlling interests	(6,529)	-	-	-	-	-	-	(6,529)
Net assets	8,278	3,115	-	3,996	2,499	1,373	5,286	24,547
Group's share of net assets	2,483	2,181	-	1,997	999	404	2,188	10,252
Goodwill	-	-	-	-	-	-	43	43
Interests in joint ventures	2,483	2,181	-	1,997	999	404	2,231	10,295
Loans to joint ventures	-	-	649 <sup>(b)</sup>	-	65	-	8	722
	2,483	2,181	649	1,997	1,064	404	2,239	11,017

## 14. Interests in and Loans to Joint Ventures (continued)

Notes:

- (a) Financial liabilities exclude trade and other payables and provisions which are included in other current and non-current liabilities.
- (b) Pursuant to agreement between shareholders of HKLTL, shareholders' loan facilities are provided to HKLTL by the shareholders pro-rata to their shareholdings to finance the construction of the LNG terminal. The loans to HKLTL are unsecured, carry interest at rates which are benchmarked to market interest rates. Instalment repayment of the loans will commence after the commissioning of the LNG terminal with final maturity at the end of the related asset lives of the LNG terminal. As at 31 December 2021, outstanding committed shareholder's loan facilities by the Group as 70% shareholder of HKLTL amounted to HK\$518 million (2020: HK\$982 million).

The expected credit loss of loans to joint ventures is close to zero.

	2021 HK\$M	2020 HK\$M
Share of capital commitments	419	952
Share of lease and other commitments*	3,800	2,713
Share of contingent liabilities	59	58

\* Representing the share of lease and other commitments in relation to the use and operation of a floating storage and regasification unit and related support vessels

The Group's capital commitments in relation to its interests in joint ventures are disclosed in Note 31(C).

## 15. Interests in Associates Accounting Policy No. 3(B)

The table below lists the associates of the Group at 31 December 2021:

Name	% of Ownership Interest at 31 December 2020 and 2021	Place of Incorporation / Business	Principal Activity
Guangdong Nuclear Power Joint Venture Company, Limited (GNPJVC) <sup>(a)</sup>	25	Mainland China	Generation of electricity
Yangjiang Nuclear Power Co., Ltd. (Yangjiang Nuclear) <sup>(a)</sup>	17	Mainland China	Generation of electricity



More detailed information of our associates can be found on "Our Portfolio" on page 308 of the Annual Report.

## 15. Interests in Associates (continued)

Summarised financial information of the associates and the Group's share of results and net assets are as follows:

	GNPJVC HK\$M	Yangjiang Nuclear <sup>(b)</sup> HK\$M	Total HK\$M
<b>For the year ended 31 December 2021</b>			
Revenue	8,183	21,668	29,851
Profit and total comprehensive income	4,050	6,228	10,278
Group's share of profit and total comprehensive income	1,012	1,059	2,071
Dividend income from associates	1,959	728	2,687
<b>For the year ended 31 December 2020</b>			
Revenue	7,979	16,861	24,840
Profit and total comprehensive income	3,926	4,370	8,296
Group's share of profit and total comprehensive income	982	743	1,725
Dividend income from associates	977	726	1,703
<b>At 31 December 2021</b>			
Non-current assets	6,973	103,589	110,562
Current assets	7,410	14,033	21,443
Current liabilities	(5,946)	(21,643)	(27,589)
Non-current liabilities	(5,154)	(49,229)	(54,383)
Net assets	3,283	46,750	50,033
Group's share of net assets	821	7,948	8,769
<b>At 31 December 2020</b>			
Non-current assets	6,608	104,555	111,163
Current assets	7,553	13,136	20,689
Current liabilities	(2,373)	(15,218)	(17,591)
Non-current liabilities	(4,763)	(58,796)	(63,559)
Net assets	7,025	43,677	50,702
Group's share of net assets	1,756	7,425	9,181

At 31 December 2021, the Group's share of capital commitments of its associates was HK\$782 million (2020: HK\$692 million).

Notes:

(a) Registered as Sino-Foreign Equity Joint Venture Enterprise under PRC law

(b) The share of results of Yangjiang Nuclear included amortisation of the fair value adjustment on fixed assets

## 16. Derivative Financial Instruments

### Accounting Policy

A derivative is initially recognised at fair value on the date a derivative contract is entered into and is subsequently remeasured at fair value. The method of recognising the resulting gain or loss depends on whether the derivative is designated as a hedging instrument, and if so, the nature of the item being hedged. Fair value gain or loss arising from derivatives not designated or not qualified for hedge accounting are recognised immediately in profit or loss.

The Group designates certain derivatives as either fair value hedges, which are hedges of the fair value of recognised financial assets or financial liabilities or firm commitments (e.g. fixed interest rate loans and foreign currency trade receivables) or cash flow hedges, which are hedges of the cash flows of recognised financial assets or financial liabilities or highly probable forecast transactions (e.g. floating interest rate loans and future purchases of fuels denominated in US dollar).

The Group documents at the inception of the transaction the intended relationship between hedging instruments and hedged items, as well as its risk management objectives and strategy for undertaking hedge transactions. The Group also documents its assessment, both at hedge inception and on an ongoing basis, of whether the hedging relationship meets the hedge effectiveness requirements.

#### (A) Fair value hedges

Changes in the fair values of derivatives that are designated and qualify as fair value hedges are recognised in profit or loss, which offset any changes in the fair values recognised in profit or loss of the corresponding hedged asset or liability that are attributable to the hedged risk and achieve the overall hedging result.

#### (B) Cash flow hedges

The effective portion of changes in the fair values of derivatives that are designated and qualify as cash flow hedges is recognised in other comprehensive income. The ineffective portion is recognised immediately in profit or loss.

Amounts accumulated in equity are reclassified to profit or loss in the periods when the hedged items affect profit or loss. Such reclassification from equity will offset the effect on profit or loss of the corresponding hedged item to achieve the overall hedging result. However, when the highly probable forecast transaction that is hedged results in the recognition of a non-financial asset (for example, inventory or fixed assets), the gains and losses previously deferred in equity are transferred from equity and included in the initial measurement of the cost of the asset at the time of acquisition. The deferred amounts are ultimately recognised in fuel costs in the case of inventory or in depreciation in the case of fixed assets.

For cash flow hedges affected by the IBOR reform, the Group retains the cumulative gain or loss in the cash flow hedge reserve, even though there is uncertainty arising from the IBOR reform with respect to the timing and amount of the cash flows of the hedged items. Should the Group consider that the hedged future cash flows are no longer expected to occur due to reasons other than the IBOR reform, the cumulative gain or loss will be immediately reclassified to profit or loss.

When a hedging instrument expires, or is sold or terminated, or when a hedge no longer meets the criteria for hedge accounting, hedge accounting is discontinued prospectively. Any cumulative gain or loss remains in equity at that time is accounted for according to the nature of the underlying transactions (as discussed above) once the hedged cash flow occurs. When a forecast transaction is no longer expected to occur, the cumulative gain or loss that has been recorded in equity is reclassified to profit or loss immediately.



## 16. Derivative Financial Instruments (continued)

### Accounting Policy (continued)

#### (C) Costs of hedging

Time value of options, forward element of forward contracts and foreign currency basis spread of financial instruments may be separated and excluded from the designated hedging instruments. In such case, the Group treats the excluded elements as costs of hedging. The fair value changes of these elements are recognised in a separate component of equity. For time-period related hedged items, these elements at the date of designation (to the extent that it relates to the hedged item) are amortised on a systematic and rational basis to profit or loss over the hedging period. For transaction related hedged items, the cumulative change of these elements is included in the initial carrying amount of any non-financial asset recognised when the hedged transaction occurs or is recognised in profit or loss if the hedged transaction affects profit or loss.

#### (D) Rebalancing of hedge relationships

If the hedge ratio for risk management purposes is no longer optimal but the risk management objective remains unchanged and the hedge continues to qualify for hedge accounting, the hedge relationship will be rebalanced by adjusting either the volume of the hedging instrument or the volume of the hedged item so that the hedge ratio aligns with the ratio used for risk management purposes. Any hedge ineffectiveness is calculated and accounted for in profit or loss at the time of the hedge relationship rebalancing.

	2021		2020	
	Assets HK\$M	Liabilities HK\$M	Assets HK\$M	Liabilities HK\$M
Cash flow hedges				
Forward foreign exchange contracts	74	126	22	115
Foreign exchange options	1	-	7	-
Cross currency interest rate swaps	51	987	230	1,144
Interest rate swaps	-	80	-	166
Energy contracts	2,256	314	2,108	1,412
Fair value hedges				
Cross currency interest rate swaps	129	59	279	68
Interest rate swaps	14	7	55	17
Not qualified for hedge accounting				
Forward foreign exchange contracts	82	61	107	60
Interest rate swaps	5	-	14	2
Energy contracts	870	1,032	691	317
	<b>3,482</b>	<b>2,666</b>	3,513	3,301
Current	1,475	1,302	1,816	1,166
Non-current	2,007	1,364	1,697	2,135
	<b>3,482</b>	<b>2,666</b>	3,513	3,301

At 31 December 2021, the contractual maturity profile of the hedging instruments from the end of the reporting period is summarised below:

Forward foreign exchange contracts	Up to 5 years
Foreign exchange options	Up to 3 years
Cross currency interest rate swaps	Up to 15 years
Interest rate swaps	Up to 11 years
Energy contracts	Up to 9 years

## 17. Other Non-current Assets

### Accounting Policy

#### (A) Investments

Investments classified at fair value through other comprehensive income are initially recognised at fair value and are elected to present subsequent changes in fair value in other comprehensive income. The gains or losses on such investments are never reclassified to profit or loss and no impairment is recognised in profit or loss. Cumulative gains and losses recognised in other comprehensive income are transferred to retained profits on disposal of the investment. Dividends on the investments are recognised in profit or loss unless they clearly represent a recovery of part of the cost of the investment, in which case they are deducted from the carrying amounts of the investments directly.

Investments classified at fair value through profit or loss (mainly investments in funds) are initially recognised at fair value and are subsequently measured at fair value through profit or loss.

#### (B) Contract acquisition costs

Incremental costs to obtain a contract with a customer are capitalised if they are expected to be recoverable. Costs capitalised are amortised on a straight-line basis over the expected benefit periods of the contracts. Non-incremental costs, i.e. costs that would have been incurred regardless of whether the contract is obtained, are expensed when incurred.

#### (C) Service concession receivables

The Group recognises a financial asset arising from a service concession arrangement when it has an unconditional contractual right to receive cash or another financial asset from or at the direction of the grantor for the construction. Such financial assets are initially measured at fair value and are subsequently measured at amortised cost.

	2021 HK\$M	2020 HK\$M
Investments at fair value through other comprehensive income	373	273
Investments at fair value through profit or loss	542	291
Deposits paid for purchase of a property <sup>(a)</sup>	338	-
Contract acquisition costs	180	154
Service concession receivables <sup>(b)</sup>	234	243
Defined benefit asset <sup>(c)</sup>	221	130
Others	415	209
	<b>2,303</b>	<b>1,300</b>

#### Notes:

- (a) On 6 December 2021, the Group and Far East Consortium Limited entered into a sale and purchase agreement to purchase a target company which currently owns a land situated in Kai Tak, Hong Kong, for a development divided into a hotel portion and a non-industrial portion (including an office portion) ("the Office Portion"). At completion, the target company will hold only the Office Portion which will become CLP's new Head Office. A coordination agreement was signed on the same date to facilitate the construction and development of the Office Portion directed by CLP. The consideration under the sale and purchase agreement amounted to HK\$3.38 billion subject to post completion adjustments including additional costs in respect of any add-on designs required by the Group. At 31 December 2021, total deposits of HK\$338 million were paid and the remaining amount is included in capital commitments under Note 31(A). The transaction is expected to complete by 2024.
- (b) Satpura Transco Private Limited operates 400kV transmission lines in Madhya Pradesh, India, on Design, Build, Finance, Operate and Transfer basis which is considered as a service concession arrangement under HK(IFRIC) Interpretation 12. The current portion of HK\$6 million (2020: HK\$7 million) is included under the Group's trade and other receivables. The expected credit loss is close to zero.

## 17. Other Non-current Assets (continued)

Notes (continued):

- (c) The most recent actuarial valuation of the defined benefit plans for the Group's Australian subsidiaries, as at 31 December 2021, was prepared by Mr Mark Samuels of Mercer Consulting (Australia) Pty Ltd, a fellow of the Institute of Actuaries of Australia. In respect of the plans for the Group's Australian subsidiaries: (i) the principal actuarial assumptions used include discount rate of 2.9% (2020: 1.6%), long-term salary increase rate of 2.5% (2020: 2.5%) and pension increase rate of 2.0% (2020: 2.0%); (ii) the level of funding is 145% (2020: 122%).

The most recent actuarial valuation of the defined benefit plans for the Indian subsidiaries, as at 31 March 2021, was prepared by Mr Saurabh Kochrekar of Kapadia & Kochrekar, a fellow of the Institute of Actuaries of India. No actuarial valuation was performed as at 31 December 2021 as the Indian subsidiaries have a different financial year end.

The costs for these defined benefit plans represent an immaterial portion to the Group's total retirement benefit costs. For the year ended 31 December 2021, the associated costs represented 1.5% (2020: 1.5%) of the Group's total retirement benefit costs.

## 18. Property under Development

### Accounting Policy

Property under development comprises leasehold land and construction-in-progress and is carried at the lower of cost and net realisable value. Property under development is included in current assets when it is expected to be realised or is intended for sale in the normal operating cycle.

On 18 December 2017, the Group and Sino Land Company Limited (Sino Land) agreed to collaborate on redeveloping the Group's former headquarters at Argyle Street for residential purposes and to preserve the Clock Tower building for community use. Under the development arrangement, Sino Land is fully responsible for all development costs such as land premium, construction costs, professional fees etc. and paid a non-refundable upfront payment of HK\$3 billion to the Group. When the property is completed and sold, the Group is entitled to share a percentage of the sale proceeds.

The arrangement entered into by the Group and Sino Land does not involve an establishment of a separate legal entity and is considered as a joint operation under HKFRS 11 Joint Arrangements. The non-refundable upfront payment forms part of the proceeds from the property development and is recorded as deferred revenue (Note 22(e)). When legal titles of the units in the developed property are passed to the purchasers, deferred revenue and the percentage share of the sale proceeds to which the Group is entitled will be credited to the profit or loss as revenue, while property under development will be charged to the profit or loss as cost of development.

## 19. Trade and Other Receivables

### Accounting Policy

Trade and other receivables are recognised initially at transaction price and are subsequently stated at amortised cost using the effective interest method, less allowances for expected credit losses. The Group measures the loss allowance for its trade receivables at an amount equal to the lifetime expected credit losses. The amount of expected credit losses (or reversal) that is required to adjust the loss allowance at the reporting date to its recognised amount is recognised in profit or loss, as an impairment loss or a reversal of an impairment loss. Trade and other receivables are written off (either partially or in full) when there is no reasonable expectation of recovery.

Expected credit losses are a probability-weighted estimate of credit losses (i.e. the present value of all cash shortfalls) over the expected life of the trade receivables. Expected credit losses on trade receivables are calculated by using the provision matrix approach. Trade receivables are categorised by common risk characteristics that are representative of the customers' abilities to pay all amounts due in accordance with the contractual terms. The provision matrix is determined based on historical observed default rates over the expected life of the trade receivables and is adjusted for forward-looking estimates. At every reporting date the historical observed default rates are updated and changes in the forward-looking estimates are analysed.

If there is no significant increase in credit risk since initial recognition, impairment on other receivables is measured at 12-month expected credit losses. If a significant increase in credit risk has occurred, then impairment is measured as lifetime expected credit losses.

## 19. Trade and Other Receivables (continued)

### Critical Accounting Estimates and Judgements: Recoverability of Trade Receivables

Provision for expected credit losses is made when the Group does not expect to collect all amounts due. The provision is determined by grouping together trade debtors with similar risk characteristics and collectively or individually assessing them for likelihood of recovery. The provision reflects lifetime expected credit losses i.e. possible default events over the expected life of the trade receivables, weighted by the probability of that default occurring. Judgement has been applied in determining the level of provision for expected credit losses, taking into account the credit risk characteristics of customers and the likelihood of recovery assessed on a combination of collective and individual basis as relevant. While the provision is considered appropriate, changes in estimation basis or in economic conditions could lead to a change in the level of provision recorded and consequently on the charge or credit to profit or loss.

	2021 HK\$M	2020 HK\$M
Trade receivables <sup>(a)</sup>	11,707	10,868
Deposits, prepayments and other receivables	2,526	1,722
Dividend receivables from		
Joint ventures	190	139
An associate	975	-
Loan to and current accounts with <sup>(b)</sup>		
Joint ventures	5	134
An associate	1	1
	<b>15,404</b>	<b>12,864</b>

Notes:

(a) Trade receivables

The ageing analysis of the trade receivables at 31 December based on invoice date is as follows:

	2021 HK\$M	2020 HK\$M
30 days or below*	9,285	8,559
31 - 90 days	670	601
Over 90 days	1,752	1,708
	<b>11,707</b>	<b>10,868</b>

\* Including unbilled revenue

### Movements in provision for impairment

	2021 HK\$M	2020 HK\$M
Balance at 1 January	1,602	1,583
Provision for impairment	246	512
Receivables written off during the year as uncollectible	(332)	(564)
Amounts reversed	(2)	(1)
Exchange differences	(58)	72
Balance at 31 December	<b>1,456</b>	<b>1,602</b>

## 19. Trade and Other Receivables (continued)

Notes (continued):

(a) Trade receivables (continued)

### Credit risk management

The Group has no significant concentrations of credit risk with respect to the trade receivables in Hong Kong and Australia as their customer bases are widely dispersed in different sectors and industries. The Group has established credit policies for customers in each of its retail businesses.

In Hong Kong, electricity bills are due within two weeks after issuance. To limit the credit risk exposure, customers' receivable balances are generally secured by cash deposits or bank guarantees from customers for an amount determined from time to time by reference to the usage of the customers, and in the normal course of events will not exceed the highest expected charge for 60 days. For all the deposits held, customers are paid a floating market interest rate equivalent to the HSBC bank saving rate. The customers' deposits are treated on the statement of financial position as current liabilities on the basis that they are repayable on demand. At 31 December 2021, such cash deposits amounted to HK\$6,251 million (2020: HK\$5,895 million) and the bank guarantees stood at HK\$835 million (2020: HK\$854 million).

In Australia, customers are allowed to settle their electricity bills in no more than 45 days after issue. EnergyAustralia has policies in place to ensure that sales of products and services are made to retail customers (including residential and commercial customers) of an appropriate credit quality and collectability is reviewed on an ongoing basis.

Trade receivables arising from sales of electricity to the offtakers in Mainland China and India are due for settlement within 30 to 90 days and 15 to 60 days after bills issuance respectively. The offtakers of these regions are mainly state-owned enterprises. Management has closely monitored the credit qualities and the collectability of these trade receivables and considers that the expected credit risks of them are close to zero.

### Expected credit losses

For trade receivables relating to accounts which are long overdue with significant amounts or known insolvencies or non-response to collection activities, they are assessed individually for impairment allowance. CLP Power Hong Kong and EnergyAustralia determine the provision for expected credit losses by grouping together trade receivables with similar credit risk characteristics and collectively assessing them for likelihood of recovery, taking into account prevailing economic conditions and forward looking assumptions.

#### CLP Power Hong Kong

CLP Power Hong Kong classifies its trade receivables by nature of customer accounts. These include active accounts and terminated accounts.

	Lifetime Expected Credit Loss Rate	Gross Carrying Amount HK\$M	Lifetime Expected Credit Loss HK\$M	Net Carrying Amount HK\$M
<b>At 31 December 2021</b>				
Active accounts				
Provision on individual basis	100%	14	(8)	6
Provision on collective basis	0%*	2,203	(9)	2,194
Terminated accounts				
Provision on individual basis	100%	3	(3)	-
Provision on collective basis	28%	6	(2)	4
		<u>2,226</u>	<u>(22)</u>	<u>2,204</u>
<b>At 31 December 2020</b>				
Active accounts				
Provision on individual basis	100%	7	(5)	2
Provision on collective basis	0%*	1,960	(8)	1,952
Terminated accounts				
Provision on individual basis	100%	6	(6)	-
Provision on collective basis	25%	5	(1)	4
		<u>1,978</u>	<u>(20)</u>	<u>1,958</u>

\* Expected credit loss is close to zero as these trade receivables are mostly secured by cash deposits or bank guarantees from customers and have no recent history of default.

## 19. Trade and Other Receivables (continued)

Notes (continued):

### (a) Trade receivables (continued)

#### Expected credit losses (continued)

##### EnergyAustralia

EnergyAustralia categorises its trade receivables based on their ageing. EnergyAustralia recognises lifetime expected credit losses for receivables by assessing future cash flows for each group of trade receivables including a probability weighted amount determined by evaluating a range of possible outcomes based on twelve month rolling historical credit loss experience by customer segment, geographical region, tenure and type of customer and applying that weighting to the receivables held at year end. The determining factor impacting collectability is customer attributes. The impact of economic factors, both current and future, is considered in assessing the likelihood of recovery from customers.

	Weighted Average Lifetime Expected Credit Loss Rate	Gross Carrying Amount HK\$M	Lifetime Expected Credit Loss HK\$M	Net Carrying Amount HK\$M
<b>At 31 December 2021</b>				
Current	1%	3,290	(22)	3,268
1 – 30 days	7%	408	(29)	379
31 – 60 days	18%	221	(39)	182
61 – 90 days	22%	139	(31)	108
Over 90 days	63%	1,371	(866)	505
		<b>5,429</b>	<b>(987)</b>	<b>4,442</b>
<b>At 31 December 2020</b>				
Current	1%	3,886	(22)	3,864
1 – 30 days	7%	466	(34)	432
31 – 60 days	17%	218	(37)	181
61 – 90 days	26%	165	(43)	122
Over 90 days	64%	1,582	(1,019)	563
		<b>6,317</b>	<b>(1,155)</b>	<b>5,162</b>

##### Mainland China

As at 31 December 2021, the Group had total receivables of HK\$2,302 million (2020: HK\$1,774 million) relating to unpaid Renewable National Subsidies. The application, approval and settlement of the Renewable National Subsidy are governed by the relevant policies issued by the Central People's Government. All of the relevant wind and solar projects are qualified for renewable energy subsidy in accordance with the prevailing government policies. There is no due date for the settlement of Renewable National Subsidies as the collection is subject to the allocation of funds by relevant government authorities to local grid companies, which takes a relatively long time for settlement. The expected credit loss is close to zero as continuous settlements have been noted with no history of default and the subsidy is funded by the Renewable Energy Development Fund set up and administered by the Ministry of Finance.

##### India

#### (i) Renewable receivables

At 31 December 2021, Apraava Energy's renewable projects had trade receivables of HK\$883 million (2020: HK\$771 million) of which HK\$809 million (2020: HK\$680 million) were past due. The expected credit loss is close to zero as there are no history of default and continuous payments received. Trade receivables in dispute are assessed individually for impairment allowance in order to determine whether specific provisions are required.

#### (ii) Disputed charges with offtakers

JPL has disputes with its offtakers over applicable tariff of capacity charges and energy charges relating to transit losses. At 31 December 2021, total disputed amounts were Rs3,347 million (HK\$351 million) (2020: Rs3,105 million (HK\$329 million)). The Group considers that JPL has a strong case and hence, no provision has been made.

In September 2013, JPL filed a petition to Central Electricity Regulatory Commission (CERC) against its offtakers. In 2016, CERC pronounced its judgment in favour of JPL, which supports the Group's decision that no provision should be made. The offtakers filed an appeal against the CERC's order in the Appellate Tribunal for Electricity (APTEL) and JPL filed an appeal challenging certain findings of the CERC. The APTEL hearing concluded on 16 June 2020 and the matter was reserved for judgment. However, the tenure of the Technical Member on the APTEL's bench expired before the judgment was passed and the APTEL's bench had to be reconstituted in 2021. The matter will be reheard by the APTEL and the next hearing is scheduled in end-March 2022.

Other disputed receivables of HK\$185 million (2020: HK\$165 million) were provided in full as there is no reasonable expectation of recovery.

## 19. Trade and Other Receivables (continued)

Notes (continued):

(b) The loan to and current accounts with joint ventures and an associate are unsecured, interest free and have no fixed repayment terms.

## 20. Bank Balances, Cash and Other Liquid Funds

### Accounting Policy

Cash and cash equivalents comprise cash at banks and on hand, demand deposits with banks and other financial institutions, short-term highly liquid investments that are readily convertible to cash, subjected to insignificant risk of change in value and with a maturity of three months or less from date of investment, and bank overdrafts. Bank overdrafts are shown within borrowings in current liabilities on the statement of financial position.

	2021 HK\$M	2020 HK\$M
Trust accounts restricted under TRAA <sup>(a)</sup>	299	536
Deposits with banks	5,968	8,627
Cash at banks and on hand	1,993	2,545
Bank balances, cash and other liquid funds <sup>(b)</sup>	<b>8,260</b>	11,708
Excluding:		
Cash restricted for specific purposes <sup>(a)</sup>	(299)	(536)
Bank deposits with maturities of more than three months	(61)	(1,014)
Short-term deposits and restricted cash	(360)	(1,550)
Cash and cash equivalents	<b>7,900</b>	10,158

Notes:

- (a) Pursuant to Trust and Retention Account Agreements (TRAA) of Apraava Energy group with their corresponding lenders, various trust accounts are set up for designated purposes.
- (b) The Group's bank balances, cash and other liquid funds are denominated in the following currencies:

	2021 HK\$M	2020 HK\$M
Hong Kong dollar	6,119	6,434
Renminbi	1,011	898
Australian dollar	335	2,799
Indian rupee	669	1,528
Others	126	49
	<b>8,260</b>	11,708

The Group's bank balances, cash and other liquid funds denominated in the currencies other than the functional currencies of the corresponding Group entities amounted to HK\$409 million (2020: HK\$352 million) which were mostly denominated in Renminbi (2020: Renminbi).

## 21. Fuel Clause Account

The cost of fuel consumed by CLP Power Hong Kong is passed on to the customers. Any variations between the actual cost of fuel and the fuel cost billed to customers are captured in the fuel clause account. The balance on the account (inclusive of interest) represents amounts over-recovered or under-recovered and is treated as an amount due to or from customers. CLP Power Hong Kong may adjust fuel related tariff from time to time, including on a monthly basis, in accordance with the SoC, to reflect changes in the cost of fuels consumed by the SoC Companies for the generation of electricity. As at 31 December 2021, the fuel clause account asset balance represented the right of CLP Power Hong Kong to collect the under-recovered fuel costs from the customers under the SoC.



## 22. Trade Payables and Other Liabilities

### Accounting Policy

#### (A) Trade and other payables

Trade and other payables are recognised initially at fair value and subsequently measured at amortised cost using the effective interest method.

#### (B) Lease liabilities

At the commencement date of the lease, the Group recognises lease liabilities measured at the present value of lease payments with reference to an expected lease term, which includes optional lease periods when the lessee is reasonably certain to exercise the option to extend or not to terminate the lease. The lease payments include fixed payments (including in substance fixed payments) less any lease incentives receivable; variable lease payments that depend on an index or a rate; and amounts expected to be paid under residual value guarantees. Variable lease payments that do not depend on an index or a rate are recognised as expenses (unless they are incurred to produce inventories) in the period in which the event or condition that triggers the payment occurs.

Lease payments are discounted using the interest rate implicit in the lease, if this cannot be readily determined, an incremental borrowing rate that the lessee would have to pay to borrow the funds necessary to obtain an asset of a similar value to the right-of-use asset in a similar economic environment, over a similar term and with a similar security. Lease liabilities are subsequently measured by increasing the carrying amounts to reflect interest on the lease liabilities (using the effective interest method) and by reducing the carrying amounts to reflect the lease payments made. Lease liabilities are remeasured (with a corresponding adjustment made to the related right-of-use asset) when there is a change in future lease payments in case of renegotiation, changes of an index or rate or in case of reassessment of options under certain conditions.

	2021 HK\$M	2020 HK\$M
Trade payables <sup>(a)</sup>	6,119	6,077
Other payables and accruals	7,504	7,136
Lease liabilities <sup>(b)</sup>	217	219
Advances from non-controlling interests <sup>(c)</sup>	832	1,021
Current accounts with <sup>(d)</sup>		
Joint ventures	1	1
An associate	564	583
Deferred revenue <sup>(e)</sup>	3,144	3,104
	<b>18,381</b>	<b>18,141</b>

Notes:

(a) The ageing analysis of trade payables at 31 December based on invoice date is as follows:

	2021 HK\$M	2020 HK\$M
30 days or below	5,800	5,852
31 – 90 days	219	123
Over 90 days	100	102
	<b>6,119</b>	<b>6,077</b>

At 31 December 2021, trade payables denominated in currencies other than the functional currencies of the corresponding Group entities amounted to HK\$1,073 million (2020: HK\$941 million), of which HK\$897 million (2020: HK\$786 million) were denominated in US dollar (2020: US dollar).

## 22. Trade Payables and Other Liabilities (continued)

Notes (continued):

(b) Maturity profile of the lease liabilities at 31 December is as follows:

	2021 HK\$M	2020 HK\$M
Within one year	217	219
Between one and two years	213	210
Between two and five years	346	476
Over five years	393	506
	<b>1,169</b>	1,411
Less: amount due after one year included under other non-current liabilities	<b>(952)</b>	(1,192)
	<b>217</b>	219

- (c) The advances from non-controlling interests represented the advances from China Southern Power Grid International (HK) Co., Limited (CSGHI) to CAPCO. Pursuant to the agreement between the shareholders of CAPCO, both CLP Power Hong Kong and CSGHI are required to provide shareholders' advances pro rata to their shareholdings in CAPCO. The advances are unsecured, interest free and repayable on demand. The advances are denominated in Hong Kong dollar.
- (d) The amounts payable to joint ventures and an associate are unsecured, interest free and have no fixed repayment terms.
- (e) Deferred revenue included the non-refundable upfront payment for the property development at Argyle Street of HK\$3 billion (2020: HK\$3 billion) (Note 18) and payments received in advance for other services. Non-current deferred revenue of HK\$1,459 million (2020: HK\$1,434 million) was included under other non-current liabilities.

## 23. Bank Loans and Other Borrowings

### Accounting Policy

Borrowings are recognised initially at fair value of proceeds received, net of transaction costs incurred. Transaction costs are incremental costs that are directly attributable to the acquisition or issue of a financial liability. Borrowings are subsequently stated at amortised cost. Any difference between the proceeds (net of transaction costs) and the redemption value is amortised to profit or loss or capitalised as cost of the qualifying assets over the period of the borrowings using the effective interest method. Borrowings are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the end of the reporting period.

The Group's bank loans and other borrowings at 31 December were repayable as follows:

	Bank Loans		Other Borrowings*		Total	
	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M
Within one year	8,893	5,299	1,619	3,448	10,512	8,747
Between one and two years	3,068	4,321	3,410	1,536	6,478	5,857
Between two to five years	3,657	4,708	6,253	7,755	9,910	12,463
Over five years	3,555	3,115	27,760	24,166	31,315	27,281
	<b>19,173</b>	17,443	<b>39,042</b>	36,905	<b>58,215</b>	54,348

- \* Other borrowings mainly included Medium Term Notes of HK\$37,472 million (2020: HK\$35,587 million) and bonds of HK\$1,274 million (2020: HK\$1,296 million).



Another presentation of the Group's liquidity risk is set out on pages 287 to 289.

## 23. Bank Loans and Other Borrowings (continued)

Total borrowings at 31 December included secured liabilities of HK\$11,484 million (2020: HK\$10,676 million), analysed as follows:

	2021 HK\$M	2020 HK\$M
Apraava Energy group <sup>(a)</sup>	6,008	5,322
Subsidiaries in Mainland China <sup>(b)</sup>	5,476	5,354
	<b>11,484</b>	<b>10,676</b>

Notes:

- (a) Bank loans and bonds for Apraava Energy group are secured by fixed and floating charges over their immovable and movable properties and current assets with total carrying amounts of HK\$12,878 million (2020: HK\$11,918 million).
- (b) Bank loans for subsidiaries in Mainland China are secured by rights of receipt of tariff and by fixed assets and land use rights with carrying amounts of HK\$11,069 million (2020: HK\$10,014 million).

At 31 December 2021 and 2020, all of the Group's borrowings are either in the functional currencies of the corresponding Group entities or hedged into those currencies.

At 31 December 2021, the Group had undrawn bank loans and overdraft facilities of HK\$28,076 million (2020: HK\$25,737 million).



An analysis of borrowings by currencies is shown in "Financial Review" on page 34 of the Annual Report.

## 24. Deferred Tax

### Accounting Policy

Deferred tax is provided in full, using the liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. However, deferred tax is not accounted for if it arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss. Deferred tax is determined using tax rates (and laws) that have been enacted or substantively enacted by the end of the reporting period and are expected to apply when the related deferred tax asset is realised or the deferred tax liability is settled. Deferred tax assets are recognised to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised. Deferred tax is also provided on temporary differences arising on investments in subsidiaries, joint ventures and associates, except where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred tax assets and liabilities are netted off when the taxes relate to the same tax authority and where offsetting is legally enforceable. The following amounts, determined after appropriate offsetting, are shown separately on the consolidated statement of financial position:

	2021 HK\$M	2020 HK\$M
Deferred tax assets	376	571
Deferred tax liabilities	(15,886)	(15,429)
	<b>(15,510)</b>	<b>(14,858)</b>



Deferred tax asset = income tax recoverable in the future  
 Deferred tax liability = income tax payable in the future

## 24. Deferred Tax (continued)

The gross movement on the deferred tax account is as follows:

	2021 HK\$M	2020 HK\$M
Balance at 1 January	(14,858)	(14,593)
Acquisition of a subsidiary	-	(9)
Charged to profit or loss (Note 7)	(245)	(464)
(Charged)/credited to other comprehensive income	(398)	164
Exchange differences	(9)	44
Balance at 31 December	<b>(15,510)</b>	<b>(14,858)</b>

The movements in the deferred tax assets and liabilities (prior to offsetting of balances within the same tax jurisdiction) during the year are as follows:

### Deferred tax assets (prior to offset)

	Tax Losses <sup>(a)</sup>		Accruals and Provisions		Others <sup>(b)</sup>		Total	
	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M
Balance at 1 January	415	489	1,609	1,303	1,436	834	3,460	2,626
Acquisition of a subsidiary	36	3	-	-	-	-	36	3
Credited/(charged) to profit or loss	22	(63)	238	177	(127)	520	133	634
(Charged)/credited to other comprehensive income	-	-	(33)	4	(20)	5	(53)	9
Exchange differences	(5)	(14)	(75)	125	(43)	77	(123)	188
Balance at 31 December	<b>468</b>	<b>415</b>	<b>1,739</b>	<b>1,609</b>	<b>1,246</b>	<b>1,436</b>	<b>3,453</b>	<b>3,460</b>

### Deferred tax liabilities (prior to offset)

	Accelerated Tax Depreciation		Withholding Tax		Intangibles		Others <sup>(b)</sup>		Total	
	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M
Balance at 1 January	(15,829)	(15,312)	(322)	(284)	(720)	(795)	(1,447)	(828)	(18,318)	(17,219)
Acquisition of a subsidiary	(36)	(12)	-	-	-	-	-	-	(36)	(12)
(Charged)/credited to profit or loss	(737)	(492)	(20)	(32)	43	74	336	(648)	(378)	(1,098)
(Charged)/credited to other comprehensive income	-	-	-	(1)	-	-	(345)	156	(345)	155
Exchange differences	42	(13)	-	(5)	-	1	72	(127)	114	(144)
Balance at 31 December	<b>(16,560)</b>	<b>(15,829)</b>	<b>(342)</b>	<b>(322)</b>	<b>(677)</b>	<b>(720)</b>	<b>(1,384)</b>	<b>(1,447)</b>	<b>(18,963)</b>	<b>(18,318)</b>

Notes:

- The deferred tax asset arising from tax losses mainly related to the electricity business in Australia and India (2020: India). There is no expiry on tax losses recognised.
- Others mainly related to temporary differences arising from derivative financial instruments, right-of-use assets and corresponding lease liabilities, and Minimum Alternate Tax credit in India.

## 25. SoC Reserve Accounts

### Critical Accounting Estimates and Judgements: Classification of SoC-related Accounts

As stipulated in the SoC, the balances in the Tariff Stabilisation Fund and the Rate Reduction Reserve shall represent liabilities in the financial statements of CLP Power Hong Kong and shall not accrue to the benefit of its shareholders save as provided for by the SoC. The Group considers that CLP Power Hong Kong is required under the SoC to discharge its obligations arising from the SoC upon the expiry of the SoC Agreement such that these account balances meet the definition of a liability.

Tariff Stabilisation Fund, Rate Reduction Reserve and Rent and Rates Refunds of the Group's major subsidiary, CLP Power Hong Kong, are collectively referred to as SoC reserve accounts. The respective balances at the end of the year are:

	2021 HK\$M	2020 HK\$M
Tariff Stabilisation Fund (A)	3,109	2,019
Rate Reduction Reserve (B)	3	18
Rent and Rates Refunds (C)	328	337
	<b>3,440</b>	<b>2,374</b>

The movements in SoC reserve accounts during the year are shown as follows:

#### (A) Tariff Stabilisation Fund

	2021 HK\$M	2020 HK\$M
At 1 January	2,019	1,478
Transfer from Rate Reduction Reserve	18	22
Transfer under the SoC <sup>(a)</sup>		
– transfer for SoC from revenue (Note 2)	1,183	660
– charge for asset decommissioning <sup>(b)</sup>	(111)	(141)
At 31 December	<b>3,109</b>	<b>2,019</b>

Notes:

- (a) Under the SoC Agreement, if the gross tariff revenue in a period is less than or exceeds the total of the SoC operating costs, permitted return and taxation charges, such deficiency shall be deducted from, or such excess shall be added to, the Tariff Stabilisation Fund. In any period, the amount of deduction from or addition to the Tariff Stabilisation Fund is recognised as a revenue adjustment to the extent that the return and charges under the SoC are recognised in the profit or loss.
- (b) Under the SoC, a periodic charge to accrue for asset decommissioning is made with corresponding deferred liabilities recognised in the statement of financial position of the SoC Companies. The balance of the asset decommissioning liabilities account of HK\$1,421 million (2020: HK\$1,320 million) (Note 26) recognised under the SoC represents a liability of the Group.

## 25. SoC Reserve Accounts (continued)

### (B) Rate Reduction Reserve

	2021 HK\$M	2020 HK\$M
At 1 January	18	22
Transfer to Tariff Stabilisation Fund	(18)	(22)
Interest expense charged to profit or loss (Note 6)	3	18
At 31 December	3	18

### (C) Rent and Rates Refunds

CLP Power Hong Kong has been challenging the amount of Government rent and rates levied dating back to the year of assessment 2001/02. While CLP Power Hong Kong had reached settlement with the Hong Kong Government of the appeals up to 2017/18, final resolution for the remaining appeals from 2018/19 onwards is still to be completed.

Using the total amount of refunds received from the Hong Kong Government for all appeal years up to 2017/18 of HK\$2,791 million, CLP Power Hong Kong has, in previous years, provided customers with the Rent and Rates Special Rebate with an aggregate amount of HK\$2,463 million.

The refunds are classified within the SoC reserve accounts. The Rent and Rates Special Rebate paid to customers was offset against the refunds received.

## 26. Asset Decommissioning Liabilities and Retirement Obligations

### Accounting Policy

When the Group has a legal and/or constructive obligation for remediation and the likelihood of economic outflow is probable, provisions for asset retirement obligations are recorded for estimated remediation costs of reclamation, plant closure, dismantling and waste disposal. A provision for asset retirement costs is determined by estimating the expected costs associated to remediate the site based on the current legal requirements and technologies and is discounted to its present value with an unwind adjustment recognised in finance costs. An asset is recognised on initial recognition of the provision and is depreciated over the useful life of the facility. The asset retirement costs are reviewed annually and adjustments are made to the carrying amount of the assets to reflect changes made to these estimated discount rates or future costs.

## 26. Asset Decommissioning Liabilities and Retirement Obligations (continued)

### Critical Accounting Estimates and Judgements

Estimating the amount and timing of the obligation to be recorded requires significant judgement. Management has assessed the Group's obligations for each asset based on the local regulatory environment and expected closure dates.

CLP Power Hong Kong has been investing in the transmission and distribution network to supply electricity to the customers in its supply area in Hong Kong. As CLP Power Hong Kong expects that the land sites being used for the transmission and distribution network will continue to be used for the distribution of electricity supply to its customers, it is currently considered remote that the network would be removed from the existing land sites. Therefore in accordance with applicable accounting standards, asset retirement obligations for these assets have not been recognised by CLP Power Hong Kong.

As part of the current development plan agreed with the Hong Kong Government in 2018, CAPCO will retire the coal-fired generation units at Castle Peak "A" Station (CPA) between 2022 to 2025. Following this retirement, the removal of CPA's coal-fired generation units has become probable. In support of the Government's net-zero carbon emissions targets in the "Hong Kong's Climate Action Plan 2050" announced in October 2021, CAPCO will be in discussion with the Government to phase out the use of coal for daily electricity generation in Castle Peak "B" Station and work on ways to convert its gas-fired generation facilities to operate on green fuels. While it is envisaged that these remaining generation units will have their roles in supporting the Government's Climate Action Plan 2050, with the continuous development in decarbonisation technologies, the removal of these units and replacement by alternative facilities is possible. Under the SoC, CAPCO makes a periodic charge to accrue in the statement of financial position a liability balance to be utilised in discharging asset decommissioning costs if and when incurred. CAPCO considers that the dismantling obligation for the CPA units is covered under the asset decommissioning liability accrued under the SoC as at 31 December 2021. While no provision for asset retirement obligations for the other generation units of CAPCO has been recognised, it is expected that if such an obligation be incurred, it will be met by the liability accrued and the cost recovery mechanism under the SoC.

Asset retirement obligations of EnergyAustralia as at 31 December 2021 amounted to HK\$2,950 million (2020: HK\$2,704 million) which mainly related to the provision for land remediation and decommissioning of generation assets. The provisions are largely based on estimates by external and internal experts that are discounted using internally determined end of plant lives. The calculation of the provision requires management judgement with respect to estimating the timing of asset removal, costs to remove infrastructure, remediate soil and groundwater, water usage and technological developments. The terms associated with the decommissioning of certain assets including site restoration plans are yet to be agreed with the relevant regulators. Any future agreements with regulators or changes to regulatory requirements could impact the cost estimates used in the decommissioning provision. On an ongoing basis, we continually review and update underlying assumptions relating to forward rehabilitation estimates and timelines.

## 26. Asset Decommissioning Liabilities and Retirement Obligations (continued)

	2021 HK\$M	2020 HK\$M
Asset decommissioning liabilities (Note 25(A)(b))	1,421	1,320
Provisions for land remediation and restoration costs (note)	2,925	2,643
	<b>4,346</b>	<b>3,963</b>

Note: The movements of the balances, including the current portion of HK\$25 million (2020: HK\$61 million) under the Group's trade payables and other liabilities, are as follows:

	2021 HK\$M	2020 HK\$M
Balance at 1 January	2,704	2,411
Disposal of a subsidiary	(52)	-
Additional provisions	216	59
Effect of changes in discount rate	207	16
Amounts used	(33)	(40)
Unused amounts reversed	-	(27)
Unwinding of discount	51	56
Exchange differences	(143)	229
Balance at 31 December	<b>2,950</b>	<b>2,704</b>

## 27. Share Capital

	2021		2020	
	Number of Ordinary Shares	Amount HK\$M	Number of Ordinary Shares	Amount HK\$M
Issued and fully paid, at 31 December	2,526,450,570	23,243	2,526,450,570	23,243



## 28. Reserves

The movements in reserves attributable to shareholders during the year are shown as follows:

	Translation Reserve HK\$M	Cash Flow Hedge Reserve HK\$M	Cost of Hedging Reserve HK\$M	Other Reserves HK\$M	Retained Profits HK\$M	Total HK\$M
Balance at 1 January 2020	(8,282)	831	(39)	1,622	88,080	82,212
Earnings attributable to shareholders	-	-	-	-	11,456	11,456
Other comprehensive income						
Exchange differences on translation of						
Subsidiaries	2,655	35	-	-	(35)	2,655
Joint ventures	647	-	-	-	-	647
Associates	446	-	-	-	-	446
Cash flow hedges						
Net fair value losses	-	(886)	-	-	-	(886)
Reclassification to profit or loss	-	(41)	-	-	-	(41)
Tax on the above items	-	176	-	-	-	176
Costs of hedging						
Net fair value gains	-	-	132	-	-	132
Reclassification to profit or loss	-	-	31	-	-	31
Tax on the above items	-	-	(26)	-	-	(26)
Fair value losses on investments	-	-	-	(58)	-	(58)
Remeasurement losses on defined benefit plans	-	-	-	-	(7)	(7)
Share of other comprehensive income of joint ventures	-	2	-	-	-	2
Total comprehensive income attributable to shareholders	3,748	(714)	137	(58)	11,414	14,527
Transfer to fixed assets	-	1	(1)	-	-	-
Appropriation of reserves	-	-	-	(35)	35	-
Dividends paid						
2019 fourth interim	-	-	-	-	(3,007)	(3,007)
2020 first to third interim	-	-	-	-	(4,775)	(4,775)
Balance at 31 December 2020	(4,534)	118	97	1,529	91,747 <sup>(note)</sup>	88,957



Translation reserve – exchange rates movements arising from the consolidation of Group entities with different reporting currencies

Cash flow hedge / Cost of hedging reserve – deferred fair value gains / losses on derivative financial instruments which are qualified for hedge accounting; reclassify to profit or loss upon settlement of derivatives or amortisation of costs of hedging

Other reserves – mainly comprise revaluation reserve, other consolidated reserve arising from change in ownership interests in a subsidiary, and other legal reserves allocated from retained profits to meet local statutory and regulatory requirements of Group entities

## 28. Reserves (continued)

	Translation Reserve HK\$M	Cash Flow Hedge Reserve HK\$M	Cost of Hedging Reserve HK\$M	Other Reserves HK\$M	Retained Profits HK\$M	Total HK\$M
Balance at 1 January 2021	(4,534)	118	97	1,529	91,747	88,957
Earnings attributable to shareholders	-	-	-	-	8,491	8,491
Other comprehensive income						
Exchange differences on translation of						
Subsidiaries	(1,241)	(46)	-	-	46	(1,241)
Joint ventures	204	-	-	-	-	204
Associates	199	-	-	-	-	199
Cash flow hedges						
Net fair value gains	-	2,249	-	-	-	2,249
Reclassification to profit or loss	-	(930)	-	-	-	(930)
Tax on the above items	-	(385)	-	-	-	(385)
Costs of hedging						
Net fair value losses	-	-	(143)	-	-	(143)
Reclassification to profit or loss	-	-	23	-	-	23
Tax on the above items	-	-	20	-	-	20
Fair value gains on investments	-	-	-	100	-	100
Remeasurement gains on defined benefit plans	-	-	-	-	77	77
Share of other comprehensive income of joint ventures	-	(1)	-	(3)	-	(4)
Total comprehensive income attributable to shareholders	(838)	887	(100)	97	8,614	8,660
Transfer to fixed assets	-	6	-	-	-	6
Appropriation of reserves	-	-	-	16	(16)	-
Dividends paid						
2020 fourth interim	-	-	-	-	(3,057)	(3,057)
2021 first to third interim	-	-	-	-	(4,775)	(4,775)
<b>Balance at 31 December 2021</b>	<b>(5,372)</b>	<b>1,011</b>	<b>(3)</b>	<b>1,642</b>	<b>92,513<sup>(note)</sup></b>	<b>89,791</b>

Note: The fourth interim dividend declared for the year ended 31 December 2021 was HK\$3,057 million (2020: HK\$3,057 million). The balance of retained profits after the fourth interim dividend of the Group was HK\$89,456 million (2020: HK\$88,690 million).

## 29. Perpetual Capital Securities and Redeemable Shareholder Capital

### (A) Perpetual Capital Securities

A total of US\$500 million perpetual capital securities was issued by the wholly owned subsidiary, CLP Power HK Finance Ltd. in 2019. The securities are perpetual, non-callable in the first 5.25 years (with issuer call option at par at any time in the 3 months before 5 February 2025) and entitle the holders to receive distributions at a distribution rate of 3.55% per annum in the first 5.25 years, floating thereafter and with fixed step up margins at year 10.25 and at year 25.25, payable semi-annually in arrears, cumulative and compounding. The distributions are at the Group's discretion, as long as the issuer and CLP Power Hong Kong, as guarantor of the securities, do not (a) declare or pay dividends to their shareholders or (b) cancel or reduce their share capitals within each distribution payment period.

## 29. Perpetual Capital Securities and Redeemable Shareholder Capital (continued)

### (B) Other Non-controlling Interests

Other non-controlling interests included CSGHK's pro-rata share of HK\$5,115 million (2020: HK\$5,115 million) of redeemable shareholder capital of CAPCO. The redeemable shareholder capital is subordinated, unsecured, interest free and has no fixed terms of repayment. CAPCO can, at its sole discretion, redeem all or part of the redeemable shareholder capital at any time after 31 December 2032.

As both the perpetual capital securities and redeemable shareholder capital do not contain any contractual obligation to pay cash or other financial assets, in accordance with HKAS 32, they are classified as equity and regarded as part of non-controlling interests for accounting purpose.

## 30. Notes to the Consolidated Statement of Cash Flows

### (A) Reconciliation of profit before income tax to net cash inflow from operations

	2021 HK\$M	2020 HK\$M
Profit before income tax	11,439	15,501
Adjustments for:		
Finance costs	1,744	1,873
Finance income	(108)	(136)
Dividend income from equity investments	(15)	(13)
Share of results of joint ventures and associates, net of income tax	(1,974)	(2,522)
Depreciation and amortisation	9,308	8,476
Impairment charge	586	599
Other charge	1,110	-
Net losses on disposal of fixed assets	386	358
Revaluation loss on investment property	34	121
Gains on sales of a subsidiary and a joint venture	(386)	-
Fair value changes of non-debt related derivative financial instruments and net exchange difference	(1,805)	(1,150)
SoC items		
Increase in customers' deposits	356	218
Decrease in fuel clause account	(1,455)	(817)
Net (decrease)/increase in rent and rates refunds	(9)	337
Transfer for SoC	1,183	660
	75	398
Increase in trade receivables and other current assets	(2,347)	(144)
Decrease/(increase) in cash restricted for specific purposes	272	(257)
Changes in non-debt related derivative financial instruments	2,068	660
Increase in trade and other payables	128	535
(Decrease)/increase in current accounts due to joint ventures and associates	(20)	119
Net cash inflow from operations	<b>20,495</b>	<b>24,418</b>

### 30. Notes to the Consolidated Statement of Cash Flows (continued)

(B) Reconciliation of liabilities arising from financing activities

	Bank Loans and Other Borrowings HK\$M	Interest and Other Finance Costs Payables HK\$M	Lease Liabilities HK\$M	Debt-related Derivative Financial Instruments HK\$M	Advances from Non-controlling Interests HK\$M	Total HK\$M
Balance at 1 January 2020	52,349	225	307	574	1,344	54,799
Cash flows changes						
Proceeds from long-term borrowings	14,004	-	-	-	-	14,004
Repayment of long-term borrowings	(12,309)	-	-	-	-	(12,309)
Decrease in short-term borrowings	(959)	-	-	-	-	(959)
Payment of principal portion of lease liabilities	-	-	(200)	-	-	(200)
Interest and other finance costs paid	-	(1,820)	-	-	-	(1,820)
Settlement of derivative financial instruments	-	-	-	149	-	149
Decrease in advances from non-controlling interests	-	-	-	-	(323)	(323)
Non-cash changes						
Acquisitions of subsidiaries	473	5	5	-	-	483
Fair value losses of derivative financial instruments charged to equity	-	-	-	424	-	424
Additions of leases	-	-	1,146	-	-	1,146
Net exchange and translation differences	754	3	124	(24)	-	857
Interest and other finance costs charged/ (credited) to profit or loss	-	1,684	37	(293)	-	1,428
Other non-cash movements	36	37	(8)	-	-	65
Balance at 31 December 2020	54,348	134	1,411	830	1,021	57,744
Balance at 1 January 2021	54,348	134	1,411	830	1,021	57,744
Cash flows changes						
Proceeds from long-term borrowings	7,796	-	-	-	-	7,796
Repayment of long-term borrowings	(5,329)	-	-	-	-	(5,329)
Increase in short-term borrowings	314	-	-	-	-	314
Payment of principal portion of lease liabilities	-	-	(271)	-	-	(271)
Interest and other finance costs paid	-	(1,575)	-	-	-	(1,575)
Settlement of derivative financial instruments	-	-	-	(366)	-	(366)
Decrease in advances from non-controlling interests	-	-	-	-	(189)	(189)
Non-cash changes						
Acquisition of a subsidiary	1,049	17	-	-	-	1,066
Fair value losses of derivative financial instruments charged to equity	-	-	-	376	-	376
Additions of leases	-	-	29	-	-	29
Net exchange and translation differences	(278)	(1)	(57)	-	-	(336)
Interest and other finance costs charged to profit or loss	-	1,536	57	98	-	1,691
Other non-cash movements	315	3	-	-	-	318
<b>Balance at 31 December 2021</b>	<b>58,215</b>	<b>114</b>	<b>1,169</b>	<b>938</b>	<b>832</b>	<b>61,268</b>

## 31. Commitments

(A) Capital expenditure contracted for but not yet incurred at the end of the year is as follows:

	2021 HK\$M	2020 HK\$M
Fixed assets and leasehold land	13,150	7,909
Intangible assets	-	21
	13,150	7,930

(B) The Group has entered into a long-term Energy Storage Services Agreement (ESSA) to be the market operator of the 250MW Kidston pumped hydro energy storage facility in Queensland, which will be accounted for as a lease arrangement on the lease commencement date. This facility is currently under construction and the ESSA is subject to a number of conditions precedent which must be satisfied before the commencement date, which is expected to occur before 31 December 2025. At 31 December 2021, the expected undiscounted contractual lease payments under this agreement were approximately HK\$2.1 billion (2020: nil).

(C) Equity contributions to be made for joint ventures and private equity partnerships at 31 December 2021 were HK\$54 million (2020: HK\$71 million) and HK\$203 million (2020: HK\$183 million) respectively.

## 32. Related Party Transactions

### Accounting Policy

Related parties are individuals and companies, including subsidiaries, fellow subsidiaries, joint ventures, associates and key management personnel, where the individual or company has the ability, directly or indirectly, to control or jointly control the other party or exercise significant influence over the other party in making financial and operating decisions. A close family member of any such individual is considered to be a related party.



### Related Parties ≠ Connected Parties

They sometimes overlap but should not be confused. Accounting standards define related parties, while the Listing Rules of the Hong Kong Stock Exchange define connected parties.

Below are the more significant transactions with related parties for the year:

(A) CLP Power Hong Kong is obliged to purchase 70% of the output from Guangdong Daya Bay Nuclear Power Station (GNPS). The price paid by CLP Power Hong Kong for electricity generated by GNPS throughout the terms of the PPA is determined by a formula based on GNPS's operating costs and a calculation of profits with reference to the capacity factors. The purchase of nuclear electricity under the arrangement was HK\$5,678 million (2020: HK\$5,582 million).

Under a separate purchase arrangement with GNPJVC and its shareholder, Guangdong Nuclear Investment Company Limited, CLP Power Hong Kong would purchase approximately 10% of additional nuclear electricity from GNPS on a best endeavour basis from October 2014 to end of 2023, at the same unit price as that under the above purchase arrangement. The purchase of nuclear electricity under the arrangements was HK\$813 million (2020: HK\$798 million).

(B) The loans and shareholder's loan facilities to joint ventures are disclosed under Note 14. Other amounts due from and to the related parties at 31 December 2021 are disclosed in Notes 19 and 22 respectively. At 31 December 2021, the Group did not have any guarantees which were of a significant amount given to or received from these entities (2020: nil).

### 32. Related Party Transactions (continued)

(C) Remuneration of key management personnel

Under HKAS 24 Related Party Disclosures, key management personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of the Group, directly or indirectly, including any directors (whether executive or otherwise) of the Group. The total remuneration of the key management personnel shown below comprises the Non-executive Directors and the Senior Management Group. During the year, members of the Senior Management Group include two (2020: two) Executive Directors and ten (2020: nine) senior management personnel.

	2021 HK\$M	2020 HK\$M
Fees	13	12
Recurring remuneration items (note)		
Base compensation, allowances & benefits	73	69
Performance bonus		
Annual incentive	67	55
Long-term incentive	35	39
Provident fund contribution	14	13
Non-recurring remuneration items (note)		
Other payments	24	-
	<b>226</b>	<b>188</b>

Note: Refer to remuneration items on page 177 of Human Resources & Remuneration Committee Report.

At 31 December 2021, the CLP Holdings' Board was composed of twelve Non-executive Directors and one Executive Director. Remuneration of all Directors for the year totalled HK\$68 million (2020: HK\$58 million). The five highest paid individuals in the Group during the year included one Director (2020: two Directors), a former director and three members (2020: three members) of Senior Management. The total remuneration of these five highest paid individuals amounted to HK\$119 million (2020: HK\$106 million). Further details of the remuneration of the Directors and Senior Management, on a named basis, and remuneration paid to the five highest paid individuals by bands are disclosed in highlighted sections of the Human Resources & Remuneration Committee Report with a heading of "Audited" on pages 176 to 179 and 185 to 187. These sections are part of the financial statements.

(D) Interest of Directors

There are no loans, quasi-loans or other dealings in favour of directors, their controlled body corporates and connected entities (2020: nil).

During the year and at the year end, no director of the Company had or has a material interest, directly or indirectly, in any significant transactions, arrangements and contracts in relation to the Group's business to which the Group was or is a party (2020: nil).

### 33. Contingent Liabilities

#### Accounting Policy

Provisions are recognised when the Group has a present legal or constructive obligation as a result of past events, it is probable that an outflow of resources will be required to settle the obligation, and the amount has been reliably estimated. Provisions are measured at the present value of the expenditures expected to be required to settle the obligation using a pre-tax rate that reflects current market assessments of the time value of money and the risks specific to the obligation. The increase in the provision due to the passage of time is recognised in finance costs.

Contingent liabilities are possible obligations that arise from past events and whose existence will only be confirmed by the occurrence or non-occurrence of one or more future events not wholly within the control of the Group. Where it is not probable that an outflow of economic benefits will be required, or the amount cannot be estimated reliably, the obligation is disclosed as a contingent liability, unless the probability of outflow of economic benefits is remote.

#### Critical Accounting Estimates and Judgements

The Group is exposed to the risk of litigation, regulatory judgments and contractual disputes in the course of its normal operations. The Group considers each instance separately in accordance with legal advice and will make provision and / or disclose information as appropriate. Changes in the assumptions around the likelihood of an outflow of economic resources or the estimation of any obligation would change the values recognised in the financial statements.

#### Indian Wind Power Projects – WWIL's Contracts

Apraava Energy group has invested in approximately 533MW of wind power projects developed with Wind World India Limited (WWIL). WWIL's major shareholder, Enercon GmbH, commenced litigation against WWIL claiming infringement of intellectual property rights. Dr Wobben, the controlling shareholder of Enercon GmbH, also brought actions against Apraava Energy group, as a customer of WWIL. Dr Wobben is seeking, among other things, an injunction restraining Apraava Energy group's use of certain rotor blades acquired from WWIL. Although Dr Wobben has passed away, his counsel have sought time to file appropriate applications to bring on record the legal representatives of the plaintiff.

As at 31 December 2021, the Group considers that Apraava Energy group has good prospects of defending these claims and the legal proceedings are unlikely to result in any material outflow of economic benefits from the Group.



The litigation arising from the disposal of Iona Gas Plant was settled. Please refer to Note 4 for details.

### 34. Statement of Financial Position of the Company

	2021 HK\$M	2020 HK\$M
<b>Non-current assets</b>		
Fixed assets	171	175
Right-of-use assets	44	89
Investments in subsidiaries	44,651	45,260
Other non-current assets	15	12
	<b>44,881</b>	<b>45,536</b>
<b>Current assets</b>		
Trade and other receivables	80	82
Dividend receivable	2,500	2,500
Cash and cash equivalents	27	7
	<b>2,607</b>	<b>2,589</b>
<b>Current liabilities</b>		
Trade payables and other liabilities	(543)	(525)
Net current assets	<b>2,064</b>	<b>2,064</b>
<b>Total assets less current liabilities</b>	<b>46,945</b>	<b>47,600</b>
<b>Financed by:</b>		
<b>Equity</b>		
Share capital	23,243	23,243
Retained profits	23,671	24,308
Shareholders' funds	<b>46,914</b>	<b>47,551</b>
<b>Non-current liabilities</b>		
Lease and other liabilities	31	49
<b>Equity and non-current liabilities</b>	<b>46,945</b>	<b>47,600</b>
The movement of retained profits is as follows:		
Balance at 1 January	24,308	25,328
Profit and total comprehensive income for the year	7,195	6,762
Dividends paid		
2020/2019 fourth interim	(3,057)	(3,007)
2021/2020 first to third interim	(4,775)	(4,775)
Balance at 31 December	<b>23,671</b>	<b>24,308</b>

The fourth interim dividend declared for the year ended 31 December 2021 was HK\$3,057 million (2020: HK\$3,057 million). The balance of retained profits after the fourth interim dividend of the Company was HK\$20,614 million (2020: HK\$21,251 million).



**The Hon Sir Michael David Kadoorie**  
Chairman  
Hong Kong, 28 February 2022



**Richard Lancaster**  
Chief Executive Officer



**Nicolas Tissot**  
Chief Financial Officer



### 35. Subsidiaries

The table below lists the principal subsidiaries of the Group at 31 December 2021:

Name	Issued Share Capital/ Registered Capital	% of Ownership Interest at 31 December 2020 and 2021	Place of Incorporation/ Business	Principal Activity
CLP Power Hong Kong Limited	HK\$20,400,007,269.65 divided into 2,488,320,000 ordinary shares	100	Hong Kong	Generation and supply of electricity
Castle Peak Power Company Limited	HK\$50,000,000 divided into 500,000 ordinary shares	70 <sup>(a)</sup>	Hong Kong	Generation and sale of electricity
Hong Kong Pumped Storage Development Company, Limited	HK\$10,000,000 divided into 100,000 ordinary shares	100 <sup>(a)</sup>	Hong Kong	Provision of pumped storage services
Hong Kong Nuclear Investment Company Limited	HK\$300,000,000 divided into 300,000 ordinary shares	100	Hong Kong/ Mainland China	Power projects investment holding
CLP Nuclear Investment Company Limited	1 ordinary share of US\$1 each	100	Hong Kong/ British Virgin Islands	Power projects investment holding
CLPe Holdings Limited	HK\$49,950,002 divided into 49,950,002 ordinary shares	100	Hong Kong	Investment holding of energy & infrastructure solutions and e-commerce business
CLP Power Asia Limited	1,000 ordinary shares of US\$1 each	100	British Virgin Islands/ International and Mainland China	Power projects investment holding
CLP Power International Limited	692,000 ordinary shares of US\$1,000 each	100 <sup>(a)</sup>	British Virgin Islands/ International	Power projects investment holding
CLP Power China Limited	192,000,000 ordinary shares of US\$1 each	100 <sup>(a)</sup>	British Virgin Islands/ Mainland China and Hong Kong	Power projects investment holding
CLP Properties Limited	HK\$150,000,000 divided into 15,000,000 ordinary shares	100	Hong Kong	Property investment holding
CLP Innovation Enterprises Limited	1 ordinary share of HK\$1 each	100	Hong Kong	Innovation projects investment holding
EnergyAustralia Holdings Limited	A\$1,585,491,005 for 1,585,491,005 ordinary shares	100 <sup>(a)</sup>	Australia	Energy business investment holding
EnergyAustralia Yallourn Pty Ltd	A\$15 for 15 ordinary shares	100 <sup>(a)</sup>	Australia	Generation and supply of electricity
EnergyAustralia Pty Ltd	A\$3,368,686,988 for 3,368,686,988 ordinary shares	100 <sup>(a)</sup>	Australia	Retailing of electricity and gas
EnergyAustralia NSW Pty Ltd	A\$2 for 2 ordinary shares	100 <sup>(a)</sup>	Australia	Generation of electricity

### 35. Subsidiaries (continued)

Name	Issued Share Capital/ Registered Capital	% of Ownership Interest at 31 December 2020 and 2021	Place of Incorporation/ Business	Principal Activity
Apraava Energy Private Limited (formerly known as CLP India Private Limited)	2,842,691,612 equity shares of Rs10 each	60 <sup>(a)</sup>	India	Generation of electricity and power projects investment holding
Jhajjar Power Limited	20,000,000 equity shares of Rs10 each; 2,324,882,458 compulsory convertible preference shares of Rs10 each	60 <sup>(a)</sup>	India	Generation of electricity
CLP Sichuan (Jiangbian) Power Company Limited <sup>(b)</sup>	RMB496,380,000	100 <sup>(a)</sup>	Mainland China	Generation of electricity
Guangdong Huaiji Changxin Hydro-electric Power Company Limited <sup>(c)</sup>	RMB69,098,976	84.9 <sup>(a)</sup>	Mainland China	Generation of electricity
Guangdong Huaiji Gaotang Hydro-electric Power Company Limited <sup>(c)</sup>	RMB249,430,049	84.9 <sup>(a)</sup>	Mainland China	Generation of electricity
Guangdong Huaiji Weifa Hydro-electric Power Company Limited <sup>(c)</sup>	US\$13,266,667	84.9 <sup>(a)</sup>	Mainland China	Generation of electricity
Guangdong Huaiji Xinlian Hydro-electric Power Company Limited <sup>(c)</sup>	RMB141,475,383	84.9 <sup>(a)</sup>	Mainland China	Generation of electricity

Notes:

- (a) Indirectly held through subsidiaries of the Company
- (b) Registered as a Wholly Foreign Owned Enterprise under PRC law
- (c) Registered as Sino-Foreign Cooperative Joint Ventures under PRC law

### 35. Subsidiaries (continued)

Summarised financial information of CAPCO and Apraava Energy, which have material non-controlling interests, is set out below:

	CAPCO		Apraava Energy	
	2021 HK\$M	2020 HK\$M	2021 HK\$M	2020 HK\$M
Results for the year				
Revenue	<b>19,365</b>	17,674	<b>4,866</b>	3,616
Profit for the year	<b>3,008</b>	2,859	<b>131</b>	357
Other comprehensive income for the year	<b>(45)</b>	(121)	<b>(92)</b>	(282)
Total comprehensive income for the year	<b>2,963</b>	2,738	<b>39</b>	75
Dividends paid to non-controlling interests	<b>885</b>	855	-	-
Net assets				
Non-current assets	<b>38,328</b>	35,461	<b>11,619</b>	10,476
Current assets	<b>7,263</b>	7,051	<b>3,585</b>	3,984
Current liabilities	<b>(11,803)</b>	(8,666)	<b>(2,066)</b>	(2,057)
Non-current liabilities	<b>(15,889)</b>	(15,967)	<b>(4,725)</b>	(4,028)
	<b>17,899</b>	17,879	<b>8,413</b>	8,375
Cash flows				
Net cash inflow from operating activities	<b>2,414</b>	3,127	<b>1,106</b>	1,381
Net cash outflow from investing activities	<b>(2,699)</b>	(1,769)	<b>(968)</b>	(267)
Net cash outflow from financing activities	<b>(371)</b>	(656)	<b>(751)</b>	(742)
Net (decrease) /increase in cash and cash equivalents	<b>(656)</b>	702	<b>(613)</b>	372

## 1. Financial Risk Factors

The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, fair value and cash flow interest rate risks, and energy portfolio risk), credit risk and liquidity risk. The Group's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise the impact of exchange rate, interest rate and energy price fluctuations on the Group's financial performance. The Group uses different derivative financial instruments to manage its exposure in these areas. All derivative financial instruments are employed solely for hedging purposes.

Risk management for Hong Kong operations is carried out by the Group's central treasury department (Group Treasury) under policies approved by the Board of Directors or the Finance & General Committee of relevant Group entities. Overseas subsidiaries conduct their risk management activities in accordance with policies approved by their respective Boards. Group Treasury identifies, evaluates and monitors financial risks in close co-operation with the Group's operating units. The Group has written policies covering specific areas, such as foreign exchange risk, interest rate risk, credit risk, use of derivative financial instruments and cash management.

### Foreign exchange risk

The Group operates in the Asia-Pacific region and is exposed to foreign exchange risk arising from future commercial transactions, and from recognised assets and liabilities and net investments in foreign operations. This is primarily with respect to Australian dollar, Renminbi and Indian rupee. Additionally, the Group has significant foreign currency obligations relating to its foreign currency denominated debts and major capital project payments, US dollar denominated nuclear power purchase offtake commitments and other fuel related payments. The Group uses forward contracts and currency swaps to manage its foreign exchange risk arising from future commercial transactions, and from recognised assets and liabilities which are denominated in a currency that is not the functional currency of the respective Group entity. Hedging is only considered for firm commitments and highly probable forecast transactions.

#### SoC Companies

Under the SoC, the SoC Companies are allowed to pass-through foreign exchange gains and losses arising from future non-capital projects related commercial transactions and recognised liabilities which are denominated in a currency other than Hong Kong dollar, thus retaining no significant foreign exchange risk of such payments over the long term. The SoC Companies use forward contracts and currency swaps to hedge all their debt repayment obligations denominated in foreign currencies for the full tenor, and a significant portion of their US dollar obligations on fuel and nuclear power purchases, provided that for US dollar the hedging can be accomplished at rates below the Hong Kong Government's historical target peg rate of HK\$7.8: US\$1. The objective is to reduce the potential impact of foreign exchange movement on electricity tariffs. The SoC Companies also use forward contracts to manage the foreign exchange risks arising from non-Hong Kong dollar payment obligations for major capital projects, for which the exchange gains and losses are capitalised.

The fair value movement of the derivative financial instruments in a cash flow hedge relationship is recorded in equity. The extent of the impact to the cash flow hedge reserve under equity due to exchange rate movements, with all other variables held constant, is as follows:

	2021 HK\$M	2020 HK\$M
Increase / (decrease) in the cash flow hedge reserve		
Hong Kong dollar against US dollar		
If Hong Kong dollar weakened by 0.6% (2020: 0.6%)	111	92
If Hong Kong dollar strengthened by 0.6% (2020: 0.6%)	(111)	(92)
Hong Kong dollar against Euro		
If Hong Kong dollar weakened by 2% (2020: 3%)	22	5
If Hong Kong dollar strengthened by 2% (2020: 3%)	(22)	(5)

## 1. Financial Risk Factors (continued)

### Foreign exchange risk (continued)

#### The Group's Asia-Pacific Investments

With respect to the power project investments in the Asia-Pacific region, the Group is exposed to both foreign currency translation and transaction risks.

The Group closely monitors translation risk using a Value-at-Risk (VaR) approach but does not hedge foreign currency translation risk because translation gains or losses do not affect the project company's cash flow or the Group's annual profit until an investment is sold. At 31 December 2021, the Group's net investment subject to translation exposure was HK\$64,082 million (2020: HK\$65,577 million), arising mainly from our investments in Mainland China, Australia, India and Southeast Asia and Taiwan. This means that, for each 1% (2020: 1%) average foreign currency movement, our translation exposure will vary by about HK\$641 million (2020: HK\$656 million). All the translation exposures are recognised in other comprehensive income and therefore have no impact on the profit or loss.

We consider that the non-functional currency transaction exposures at the individual project company level, if not managed properly, can lead to significant financial distress. Our primary risk mitigation is therefore to ensure that project-level debt financings are implemented on a local currency basis to the maximum extent possible. Each overseas subsidiary and project company has developed its own hedging programme into local currency taking into consideration any indexing provision in project agreements, tariff reset mechanisms, lender requirements, and tax and accounting implications.

Most foreign currency exposures of the Group entities are hedged and / or their transactions are predominantly conducted through the functional currency of the respective entity. The following analysis presents the Group's (apart from the SoC Companies) sensitivity to a reasonably possible change in the functional currencies of the Group entities against the US dollar and Renminbi, with all other variables held constant. The sensitivity rates in US dollar and Renminbi used are considered reasonable given the current level of exchange rates and the volatility observed in the different functional currencies of the Group entities. These are both on a historical basis and market expectations for future movement at the end of the reporting period and under the economic environments in which the Group operates. The extent of the impact to post-tax profit or equity due to exchange rate movements of US dollar and Renminbi against different functional currencies of Group entities, with all other variables held constant, is as follows:

	2021 HK\$M	2020 HK\$M
<b>US dollar</b>		
If US dollar strengthened by 3% (2020: 3%)		
Post-tax profit for the year	26	17
Equity – cash flow hedge reserve	21	23
If US dollar weakened by 3% (2020: 3%)		
Post-tax profit for the year	(26)	(17)
Equity – cash flow hedge reserve	(21)	(23)
<b>Renminbi</b>		
If Renminbi strengthened by 2% (2020: 3%)		
Post-tax profit for the year	5	12
Equity – cash flow hedge reserve	–	–
If Renminbi weakened by 2% (2020: 3%)		
Post-tax profit for the year	(5)	(12)
Equity – cash flow hedge reserve	–	–

## 1. Financial Risk Factors (continued)

### Energy portfolio risk

EnergyAustralia's activity in energy markets exposes it to financial risk.

The electricity market is a competitive power pool. In this market generation supply and retail demand are exposed to spot prices. EnergyAustralia purchases and sells majority of its electricity through the pool, at the same time EnergyAustralia enters into electricity spot-price-linked derivative financial instruments to manage the spot electricity price risk against forecast retail and generation exposures.

The gas market is a balancing market. To meet retail demand, EnergyAustralia procures gas supply agreements from various gas producers. The contract prices of certain agreements comprise a fixed component, and a variable component that is linked to oil spot prices on the global markets. EnergyAustralia enters into oil-price-linked derivative financial instruments to manage this oil price risk component.

Energy portfolio exposure is managed through an established risk management framework. The framework consists of policies which place appropriate limits on overall energy market exposures, hedging strategies and targets, delegations of authority on trading, approved product lists, regular exposure reporting, and segregation of duties. Risk monitoring includes physical position reporting, stress testing of the portfolios and "at-risk" analyses of potential earnings. The corporate governance process also includes oversight by an Audit & Risk Committee (ARC-EA) which acts on behalf of EnergyAustralia's Board.

At-risk measures are derived by modelling potential variability in spot and forward market prices and supply and demand volumes, across the wholesale energy portfolio, through Monte Carlo simulations, historic simulations, and scenarios. Overall Earnings-at-Risk (EaR) exposure for the coming financial year is reported as the 1 in 4 probability downside (2020: 1 in 4 probability downside) of the expected earnings distribution, as simulated with the above methods. The energy portfolio risk exposure for EnergyAustralia as at 31 December 2021 was HK\$441 million (2020: HK\$430 million).

### Interest rate risk

The Group's interest rate risk arises from borrowings. Borrowings issued at variable rates expose the Group to cash flow interest rate risk, and borrowings issued at fixed rates expose the Group to fair value interest rate risk. The risks are managed by monitoring an appropriate mix between fixed and floating rate borrowings, and by the use of interest rate swaps.

The appropriate level of the fixed / floating mix is determined for each operating company subject to a regular review. For instance, SoC Companies conducts an annual review to determine a preferred fixed / floating interest rate mix appropriate for its business profile. Each overseas subsidiary and project company has developed its own hedging programme taking into consideration project debt service sensitivities to interest rate movements, lender requirements, tax and accounting implications.

The sensitivity analysis below presents the effects on the Group's post-tax profit for the year (as a result of change in interest expense on floating rate borrowings) and equity (as a result of change in the fair value of derivative instruments which qualify as cash flow hedges). Such amounts accumulated in equity are reclassified to profit or loss in the periods when the hedged items affect profit or loss, and offset one another in the profit or loss.

The analysis has been determined based on the exposure to interest rates for both derivative and non-derivative financial instruments at the end of the reporting period. For floating rate borrowings, the analysis is prepared assuming the amount of liability outstanding at the end of the reporting period was outstanding for the whole year. The sensitivity to interest rates used is considered reasonable given the market forecasts available at the end of the reporting period and under the economic environments in which the Group operates, with all other variables held constant.

## 1. Financial Risk Factors (continued)

### Interest rate risk (continued)

	2021 HK\$M	2020 HK\$M
Hong Kong dollar		
If interest rates were 0.3% (2020: 0.1%) higher		
Post-tax profit for the year	(29)	(10)
Equity – cash flow hedge reserve	10	5
If interest rates were 0.3% (2020: 0.1%) lower		
Post-tax profit for the year	29	10
Equity – cash flow hedge reserve	(10)	(5)
Indian rupee		
If interest rates were 0.5% (2020: 0.3%) higher		
Post-tax profit for the year	(11)	(4)
Equity – cash flow hedge reserve	–	–
If interest rates were 0.5% (2020: 0.3%) lower		
Post-tax profit for the year	11	4
Equity – cash flow hedge reserve	–	–
Renminbi		
If interest rates were 0.3% (2020: 0.2%) higher		
Post-tax profit for the year	(12)	(9)
Equity – cash flow hedge reserve	–	–
If interest rates were 0.3% (2020: 0.2%) lower		
Post-tax profit for the year	12	9
Equity – cash flow hedge reserve	–	–

### Credit risk

The Group's approach to managing credit risk for trade receivables is discussed in Note 19.

On the treasury side, all finance-related hedging transactions and bank deposits of the Group entities are made with counterparties with good credit quality in conformance to the Group treasury policies to minimise credit exposure. Good credit ratings from reputable credit rating agencies and scrutiny of the financial position of non-rated counterparties are two important criteria in the selection of counterparties. The credit quality of counterparties will be closely monitored over the life of the transaction. The Group further assigns mark-to-market limits to its financial counterparties to reduce credit risk concentrations relative to the underlying size and credit strength of each counterparty. In an attempt to forestall adverse market movement, the Group also monitors potential exposures to each financial institution counterparty, using VaR methodology. All derivatives transactions are entered into at the sole credit of the respective subsidiaries, joint ventures and associates without recourse to the Company.

### Liquidity risk

Prudent liquidity risk management implies maintaining sufficient cash and making available an adequate amount of committed credit facilities with staggered maturities to reduce refinancing risk in any year and to fund working capital, debt servicing, dividend payments, new investments and close out market positions if required. The Group maintains significant flexibility to respond to opportunities and events by ensuring that committed credit lines are available to meet future funding requirements. In addition, CLP Power Hong Kong will fund its committed contractual maturities through cash flows earned under the terms of the SoC and financing available under its credit lines and MTN programme. Management also monitors rolling forecasts of the Group's undrawn borrowing facilities and cash and cash equivalents on the expected cash flows.

## 1. Financial Risk Factors (continued)

### Liquidity risk (continued)

The table below analyses the remaining contractual maturities at the end of the reporting period of the Group's non-derivative financial liabilities, derivative financial liabilities (both net settled and gross settled) and derivative financial assets (gross settled) based on the contractual undiscounted cash flows.

	Within 1 year HK\$M	Between 1 and 2 years HK\$M	Between 2 to 5 years HK\$M	Over 5 years HK\$M	Total HK\$M
<b>At 31 December 2021</b>					
Non-derivative financial liabilities					
Bank loans	9,420	3,445	4,142	4,072	21,079
Other borrowings	2,732	4,295	8,954	30,451	46,432
Customers' deposits	6,254	-	-	-	6,254
Trade payables and other liabilities	15,279	251	420	428	16,378
SoC reserve accounts	-	-	-	3,440	3,440
Asset decommissioning liabilities	-	-	-	1,421	1,421
Financial guarantee contract	970	-	-	-	970
	<b>34,655</b>	<b>7,991</b>	<b>13,516</b>	<b>39,812</b>	<b>95,974</b>
Derivative financial liabilities – net settled					
Interest rate swaps	49	17	15	9	90
Energy contracts	878	192	110	244	1,424
	<b>927</b>	<b>209</b>	<b>125</b>	<b>253</b>	<b>1,514</b>
Derivative financial liabilities – gross settled					
Gross contractual amounts payable					
Forward foreign exchange contracts	2,661	704	4,334	-	7,699
Cross currency interest rate swaps	1,080	947	3,091	18,499	23,617
	<b>3,741</b>	<b>1,651</b>	<b>7,425</b>	<b>18,499</b>	<b>31,316</b>
Gross contractual amounts receivable					
Forward foreign exchange contracts	(2,587)	(661)	(4,266)	-	(7,514)
Cross currency interest rate swaps	(849)	(668)	(2,780)	(18,319)	(22,616)
	<b>(3,436)</b>	<b>(1,329)</b>	<b>(7,046)</b>	<b>(18,319)</b>	<b>(30,130)</b>
Net payable	<b>305</b>	<b>322</b>	<b>379</b>	<b>180</b>	<b>1,186</b>
Derivative financial assets – gross settled					
Gross contractual amounts payable					
Forward foreign exchange contracts	20,506	536	76	-	21,118
Cross currency interest rate swaps	294	2,625	3,042	6,591	12,552
	<b>20,800</b>	<b>3,161</b>	<b>3,118</b>	<b>6,591</b>	<b>33,670</b>
Gross contractual amounts receivable					
Forward foreign exchange contracts	(20,600)	(632)	(77)	-	(21,309)
Cross currency interest rate swaps	(371)	(2,677)	(3,102)	(6,623)	(12,773)
	<b>(20,971)</b>	<b>(3,309)</b>	<b>(3,179)</b>	<b>(6,623)</b>	<b>(34,082)</b>
Net receivable	<b>(171)</b>	<b>(148)</b>	<b>(61)</b>	<b>(32)</b>	<b>(412)</b>
Total payable	<b>134</b>	<b>174</b>	<b>318</b>	<b>148</b>	<b>774</b>



## 1. Financial Risk Factors (continued)

### Liquidity risk (continued)

	Within 1 year HK\$M	Between 1 and 2 years HK\$M	Between 2 to 5 years HK\$M	Over 5 years HK\$M	Total HK\$M
At 31 December 2020					
Non-derivative financial liabilities					
Bank loans	5,758	4,681	5,149	3,531	19,119
Other borrowings	4,612	2,510	10,070	26,805	43,997
Customers' deposits	5,908	-	-	-	5,908
Fuel clause account	346	-	-	-	346
Trade payables and other liabilities	15,039	260	574	578	16,451
SoC reserve accounts	-	-	-	2,374	2,374
Asset decommissioning liabilities	-	-	-	1,320	1,320
	<u>31,663</u>	<u>7,451</u>	<u>15,793</u>	<u>34,608</u>	<u>89,515</u>
Derivative financial liabilities – net settled					
Interest rate swaps	63	55	50	22	190
Energy contracts	677	618	512	27	1,834
	<u>740</u>	<u>673</u>	<u>562</u>	<u>49</u>	<u>2,024</u>
Derivative financial liabilities – gross settled					
Gross contractual amounts payable					
Forward foreign exchange contracts	17,028	329	4,022	-	21,379
Cross currency interest rate swaps	1,366	952	2,712	12,568	17,598
	<u>18,394</u>	<u>1,281</u>	<u>6,734</u>	<u>12,568</u>	<u>38,977</u>
Gross contractual amounts receivable					
Forward foreign exchange contracts	(16,954)	(304)	(3,953)	-	(21,211)
Cross currency interest rate swaps	(1,053)	(768)	(2,478)	(12,310)	(16,609)
	<u>(18,007)</u>	<u>(1,072)</u>	<u>(6,431)</u>	<u>(12,310)</u>	<u>(37,820)</u>
Net payable	<u>387</u>	<u>209</u>	<u>303</u>	<u>258</u>	<u>1,157</u>
Derivative financial assets – gross settled					
Gross contractual amounts payable					
Forward foreign exchange contracts	705	183	361	-	1,249
Cross currency interest rate swaps	2,683	287	5,410	7,319	15,699
	<u>3,388</u>	<u>470</u>	<u>5,771</u>	<u>7,319</u>	<u>16,948</u>
Gross contractual amounts receivable					
Forward foreign exchange contracts	(760)	(206)	(465)	-	(1,431)
Cross currency interest rate swaps	(2,802)	(366)	(5,546)	(7,417)	(16,131)
	<u>(3,562)</u>	<u>(572)</u>	<u>(6,011)</u>	<u>(7,417)</u>	<u>(17,562)</u>
Net receivable	<u>(174)</u>	<u>(102)</u>	<u>(240)</u>	<u>(98)</u>	<u>(614)</u>
Total payable	<u>213</u>	<u>107</u>	<u>63</u>	<u>160</u>	<u>543</u>

## 2. Hedge Accounting

The Group seeks to apply, wherever possible, hedge accounting to present its financial statements in accordance with the economic purpose of the hedging activity. The Group determines the economic relationship between the hedged items and the hedging instruments by reviewing their critical terms. As a result, the Group concludes that the risk being hedged for the hedged items and the risk inherent in the hedging instruments are sufficiently aligned. There is no inherent mismatch in the hedging relationships. Certain ineffectiveness can arise during the hedging process. The main sources of hedge ineffectiveness are considered to be the effects of re-designation of the hedging relationships and the counterparty credit risks on the hedging instruments.

### Hedges on debt related transactions

The Group applies various types of derivative financial instruments (forward foreign currency contracts, foreign currency options, cross currency interest rate swaps and interest rate swaps) to mitigate exposures arising from the fluctuations in foreign currencies and /or interest rates of debt. In most of the cases, the hedging instruments have a one-to-one hedge ratio with the hedged items. In view of the nature of the hedging activities, no significant ineffectiveness is expected at inception.

### Hedges on non-debt related transactions

The SoC Companies use forward contracts to manage its foreign exchange risk arising from fuel and nuclear purchases obligations, and payments for major capital projects. The SoC Companies hedge a high portion of committed and highly probable forecast transactions.

EnergyAustralia uses electricity spot-price-linked forward contracts and oil-price-linked forward contracts to mitigate exposures arising from the fluctuations in electricity spot price and oil spot price embedded in gas contracts. In most of the cases, the hedging instruments have a one-to-one hedge ratio with the hedged items.

### Effects of hedge accounting

The tables below summarise the effect of the hedge accounting on financial position and performance of the Group for the year ended 31 December 2021 and 2020:

Cash Flow Hedges	Notional amount of hedging instruments HK\$M	Carrying amount of hedging instrument assets / (liabilities) HK\$M	Favourable / (Unfavourable) changes in fair value used for measuring ineffectiveness		Fair value losses / (gains) recognised in cash flow hedge reserve HK\$M	Hedge ineffectiveness recognised in profit or loss <sup>(a)</sup> HK\$M	Amount reclassified from cash flow hedge reserve and credited / (charged) to profit or loss <sup>(a)</sup>	
			Hedging instruments HK\$M	Hedged items HK\$M			Hedged items affected HK\$M	Hedged future cash flows no longer expected to occur HK\$M
<b>At 31 December 2021</b>								
Debt related transactions								
Interest rate risk <sup>(b)</sup>	28,085	(1,016)	(232)	227	231	1	(326)	-
Foreign exchange risk	346	(38)	8	(8)	(8)	-	10	-
Non-debt related transactions								
Foreign exchange risk	23,501	(13)	39	(39)	(39)	-	29	-
Energy portfolio risk - electricity <sup>(c)</sup>	N/A	1,153	989	(889)	(889)	(100)	1,050	34
Energy portfolio risk - gas <sup>(c)</sup>	N/A	789	1,546	(1,546)	(1,546)	-	134	-
<b>At 31 December 2020</b>								
Debt related transactions								
Interest rate risk <sup>(b)</sup>	28,211	(1,080)	(620)	627	618	2	225	-
Foreign exchange risk	631	(37)	34	(34)	(34)	-	36	-
Non-debt related transactions								
Foreign exchange risk	16,447	(49)	(111)	111	111	-	(77)	-
Energy portfolio risk - electricity <sup>(c)</sup>	N/A	1,309	546	(544)	(544)	(2)	122	(121)
Energy portfolio risk - gas <sup>(c)</sup>	N/A	(613)	(834)	834	834	-	(158)	-

## 2. Hedge Accounting (continued)

### Effects of hedge accounting (continued)

Fair Value Hedges	Notional amount of hedging instruments HK\$M	Carrying amount of hedged items HK\$M	Accumulated fair value hedge adjustments included in carrying amount of hedged items HK\$M	Favourable/(Unfavourable) changes in fair value used for measuring ineffectiveness		Hedge ineffectiveness charged to finance costs HK\$M
				Hedging instruments HK\$M	Hedged items HK\$M	
<b>At 31 December 2021</b>						
Debt related transactions						
Interest rate risk <sup>(b)</sup>	5,509	(5,615)	(147)	(193)	193	-
<b>At 31 December 2020</b>						
Debt related transactions						
Interest rate risk <sup>(b)</sup>	5,481	(5,804)	(340)	302	(303)	1

Notes:

- Hedge ineffectiveness and amounts reclassified from cash flow hedge reserve on non-debt and debt related transactions were recognised in fuel and other operating expenses and finance costs respectively.
- Also include foreign exchange risk in case of foreign currency debts
- The aggregate notional volumes of the outstanding energy derivatives were 108,041GWh (2020: 88,331GWh) and 5.9 million barrels (2020: 7.9 million barrels) for electricity and oil, respectively.

An analysis of other comprehensive income by risk category and the reconciliation of the components in equity that arises in connection with hedge accounting are as follows:

Cash Flow Hedge Reserve	Interest Rate Risk <sup>(b)</sup> HK\$M	Foreign Exchange Risk HK\$M	Energy Portfolio Risk HK\$M	Total HK\$M
Balance at 1 January 2020	284	14	500	798
Fair value losses	(618)	(77)	(290)	(985)
Reclassification to profit or loss				
Hedged items affect profit or loss	(225)	41	36	(148)
Hedged future cash flows no longer expected to occur	-	-	121	121
Transfer to hedged assets	-	1	-	1
Related deferred tax	145	7	40	192
Exchange difference	-	(1)	36	35
Balance at 31 December 2020	(414)	(15)	443	14
Balance at 1 January 2021	(414)	(15)	443	14
Fair value (losses)/gains	(231)	47	2,435	2,251
Reclassification to profit or loss				
Hedged items affect profit or loss	326	(39)	(1,184)	(897)
Hedged future cash flows no longer expected to occur	-	-	(34)	(34)
Transfer to hedged assets	-	8	-	8
Related deferred tax	(18)	(4)	(364)	(386)
Exchange difference	-	-	(46)	(46)
<b>Balance at 31 December 2021</b>	<b>(337)</b>	<b>(3)</b>	<b>1,250</b>	<b>910</b>

## 2. Hedge Accounting (continued)

### Effects of hedge accounting (continued)

Cost of Hedging Reserve	Time Value of Options HK\$M	Forward Element HK\$M	Foreign Currency Basis Spread HK\$M	Total HK\$M
Balance at 1 January 2020	2	8	(63)	(53)
Changes due to transaction related hedged items				
Fair value losses	-	-	(25)	(25)
Reclassification to profit or loss	-	-	27	27
Transferred to hedged assets	-	-	(2)	(2)
Changes due to time-period related hedged items				
Fair value (losses)/gains	(6)	(39)	203	158
Reclassification to profit or loss	4	32	(16)	20
Related deferred tax	1	3	(31)	(27)
Exchange difference	-	(1)	(1)	(2)
Balance at 31 December 2020	1	3	92	96
Balance at 1 January 2021	1	3	92	96
Changes due to transaction related hedged items				
Fair value losses	-	-	(11)	(11)
Reclassification to profit or loss	-	-	26	26
Changes due to time-period related hedged items				
Fair value losses	(3)	(21)	(127)	(151)
Reclassification to profit or loss	2	19	(15)	6
Related deferred tax	-	-	21	21
<b>Balance at 31 December 2021</b>	<b>-</b>	<b>1</b>	<b>(14)</b>	<b>(13)</b>

## 3. Fair Value Estimation and Hierarchy of Financial Instruments

The fair value of financial instruments traded in active markets (such as publicly traded derivatives) is based on quoted market prices at the end of the reporting period.

The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined by using appropriate valuation techniques and making assumptions that are based on market conditions existing at the end of each reporting period.

For the Group's financial instruments that are not measured at fair value, their carrying values approximate their fair values.

Financial instruments measured at fair value are analysed into the following fair value measurement hierarchy:

Level 1 – quoted prices (unadjusted) in active markets for identical assets or liabilities

Level 2 – inputs, other than quoted prices included within Level 1, that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices)

Level 3 – inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs)

### 3. Fair Value Estimation and Hierarchy of Financial Instruments (continued)

#### (A) Fair value hierarchy

The following table presents the Group's financial instruments that are measured at fair value at 31 December:

	Level 1 HK\$M	Level 2 HK\$M	Level 3 HK\$M	Total HK\$M
<b>At 31 December 2021</b>				
Financial assets				
Investments at fair value through other comprehensive income	338	-	35	373
Investments at fair value through profit or loss	12	-	530	542
Forward foreign exchange contracts	-	156	-	156
Foreign exchange options	-	1	-	1
Cross currency interest rate swaps	-	180	-	180
Interest rate swaps	-	19	-	19
Energy contracts	329	1,457	1,340	3,126
	<b>679</b>	<b>1,813</b>	<b>1,905</b>	<b>4,397</b>
Financial liabilities				
Forward foreign exchange contracts	-	187	-	187
Cross currency interest rate swaps	-	1,046	-	1,046
Interest rate swaps	-	87	-	87
Energy contracts	580	273	493	1,346
	<b>580</b>	<b>1,593</b>	<b>493</b>	<b>2,666</b>
<b>At 31 December 2020</b>				
Financial assets				
Investments at fair value through other comprehensive income	238	-	35	273
Investments at fair value through profit or loss	-	-	291	291
Forward foreign exchange contracts	-	129	-	129
Foreign exchange options	-	7	-	7
Cross currency interest rate swaps	-	509	-	509
Interest rate swaps	-	69	-	69
Energy contracts	783	824	1,192	2,799
	<b>1,021</b>	<b>1,538</b>	<b>1,518</b>	<b>4,077</b>
Financial liabilities				
Forward foreign exchange contracts	-	175	-	175
Cross currency interest rate swaps	-	1,212	-	1,212
Interest rate swaps	-	185	-	185
Energy contracts	7	922	800	1,729
	<b>7</b>	<b>2,494</b>	<b>800</b>	<b>3,301</b>

The Group's policy is to recognise transfers into / out of fair value hierarchy levels at the date of the event or change in circumstances that caused the transfer. During 2021 and 2020, there were no transfers between Level 1 and Level 2.

### 3. Fair Value Estimation and Hierarchy of Financial Instruments (continued)

(B) Valuation techniques used to determine fair values

The valuation techniques and inputs used in the fair value measurements within Level 2 and Level 3 are as follows:

Financial Instruments	Valuation Techniques	Significant Inputs
Investments at fair value through profit or loss	Recent arm's length transactions or net asset value of funds	Not applicable
Forward foreign exchange contracts	Discounted cash flow	Observable exchange rates
Foreign exchange options	Garman Kohlhagen Model	Observable exchange rates, interest rates and volatility levels
Cross currency interest rate swaps	Discounted cash flow	Observable exchange rates and swap rates of respective currency
Interest rate swaps	Discounted cash flow	Observable swap rates of respective currency
Energy contracts	Discounted cash flow	Brokers' quotes and observable exchange traded swap and cap price curves; and long term forward electricity price and cap price curve

The significant unobservable inputs of energy contracts used for fair value measurement included long term forward electricity price and cap price curve. The finance department of EnergyAustralia includes a team that performs the valuations of non-property assets required for financial reporting purposes, including Level 3 fair values. This team reports directly to EnergyAustralia's Chief Financial Officer (CFO-EA) and ARC-EA. The valuation of Level 3 forward energy contracts involves the use of a short term forward curve which is observable in the liquid market and an internally generated long term forward electricity price and cap price curve which is derived using unobservable inputs. This short term forward curve is reviewed at least once every six months, in line with the Group's half-yearly reporting dates. Review of the long term forward curve is performed by the CFO-EA and ARC-EA annually due to the lack of market liquidity. Analysis of fair value changes is performed on a monthly basis for reasonableness.

(C) Movements and sensitivity analysis of Level 3 financial instruments

	2021			2020		
	Investments HK\$M	Energy Contracts HK\$M	Total HK\$M	Investments HK\$M	Energy Contracts HK\$M	Total HK\$M
Opening balance	326	392	718	282	1,077	1,359
Total gains/(losses) recognised in						
Profit or loss and presented in fuel and other operating expenses (note)	164	119	283	(16)	7	(9)
Other comprehensive income	-	444	444	2	(650)	(648)
Purchases	128	-	128	58	-	58
Sales/settlements	(53)	(108)	(161)	-	(42)	(42)
Closing balance	565	847	1,412	326	392	718

Note: Out of which, unrealised gains recognised in profit or loss relating to the assets and liabilities held at the end of the reporting period was HK\$282 million (2020: losses of HK\$3 million).

The valuation of long tenure energy contracts is sensitive to electricity pool price assumptions. At 31 December 2021, a favourable and unfavourable change of 15% (2020: 15%) would cause the balance of the energy contracts to rise by HK\$681 million (2020: HK\$802 million) and decline by HK\$724 million (2020: HK\$806 million) respectively, with all other variables held constant.

#### 4. Offsetting Financial Assets and Financial Liabilities

The following financial assets and liabilities are subject to offsetting, enforceable master netting arrangements or similar agreements:

	Effect of offsetting in the consolidated statement of financial position			Related amounts not offset in the consolidated statement of financial position		
	Gross amounts recognised HK\$M	Gross amounts offset HK\$M	Net amounts presented in the respective line HK\$M	Financial instruments HK\$M	Financial instrument collateral HK\$M	Net amount <sup>(a)</sup> HK\$M
<b>At 31 December 2021</b>						
Financial assets						
Bank balances, cash and other liquid funds	299	-	299	(299)	-	-
Trade receivables and service concession receivables	6,791	-	6,791	(4,647)	(2,104)	40
Derivative financial instruments	3,766	(403)	3,363	(156) <sup>(b)</sup>	-	3,207
	<u>10,856</u>	<u>(403)</u>	<u>10,453</u>	<u>(5,102)</u>	<u>(2,104)</u>	<u>3,247</u>
Financial liabilities						
Customers' deposits	6,251	-	6,251	(2,104)	-	4,147
Bank loans and other borrowings	11,514	-	11,514	-	(4,946)	6,568
Derivative financial instruments	2,961	(403)	2,558	(156) <sup>(b)</sup>	-	2,402
	<u>20,726</u>	<u>(403)</u>	<u>20,323</u>	<u>(2,260)</u>	<u>(4,946)</u>	<u>13,117</u>
<b>At 31 December 2020</b>						
Financial assets						
Bank balances, cash and other liquid funds	536	-	536	(536)	-	-
Trade receivables and service concession receivables	5,413	-	5,413	(3,623)	(1,790)	-
Derivative financial instruments	4,052	(788)	3,264	(444) <sup>(b)</sup>	-	2,820
	<u>10,001</u>	<u>(788)</u>	<u>9,213</u>	<u>(4,603)</u>	<u>(1,790)</u>	<u>2,820</u>
Financial liabilities						
Customers' deposits	5,895	-	5,895	(1,790)	-	4,105
Bank loans and other borrowings	10,706	-	10,706	-	(4,159)	6,547
Derivative financial instruments	3,823	(788)	3,035	(444) <sup>(b)</sup>	-	2,591
	<u>20,424</u>	<u>(788)</u>	<u>19,636</u>	<u>(2,234)</u>	<u>(4,159)</u>	<u>13,243</u>

Notes:

- (a) Under HKFRS, amounts cannot be offset if the rights of set-off are conditional on a future event e.g. default of payment. "Net amount" column represents the net impact that would be shown on the consolidated statement of financial position if all set-off rights (e.g. master netting arrangements, collateral arrangements, etc.) were exercised. These items include (1) restricted cash of Apraava Energy group; (2) trade receivables related to Hong Kong electricity business where customers' deposits are served as security for payments; (3) trade receivables and service concession receivables of subsidiaries in Mainland China and India which are pledged against their bank loans and other borrowings; and (4) bank loans and other borrowings of subsidiaries in Mainland China and India which are secured by charges over certain financial assets or rights to income.
- (b) For derivative financial instruments, the Group enters into derivative transactions under International Swaps and Derivatives Association (ISDA) master agreements in which there is a set-off provision. Under certain circumstances, for example, when a credit event such as a default occurs, all outstanding transactions under the agreement are terminated, a termination value is then assessed and only a single net amount is payable in settlement of all transactions. The ISDA agreements do not meet the criteria for offsetting in the consolidated statement of financial position since the Group does not have any currently legally enforceable right to offset recognised amounts. The right to offset is enforceable only on the occurrence of future events such as a default on the bank transactions or other credit events.

## 5. Capital Management

The primary objective of the Group's capital management is to safeguard the Group's ability to continue as a going concern, maintain a strong credit rating and a healthy capital ratio to support the business and to enhance shareholder value.

The Group manages its capital structure and fine-tunes it in light of changes in economic conditions and business strategies. To maintain or adjust the capital structure, the Group may adjust the dividend payments to shareholders, issue new shares or change the level of debts. The Group's capital management objectives, policies or processes were unchanged during 2021 and 2020.

The Group monitors capital using "total debt to total capital" and "net debt to total capital" ratios. These ratios are as follows:

	2021 HK\$M	2020 HK\$M
Total debt <sup>(a)</sup>	58,215	54,348
Net debt <sup>(b)</sup>	49,955	42,640
Total equity <sup>(c)</sup>	127,541	126,993
Total capital (based on total debt) <sup>(d)</sup>	185,756	181,341
Total capital (based on net debt) <sup>(e)</sup>	177,496	169,633
Total debt to total capital (based on total debt) ratio (%)	31.3	30.0
Net debt to total capital (based on net debt) ratio (%)	28.1	25.1

Increase in the Group's net debt to total capital is mainly attributable to higher net debt to finance capital expenditure for business growth and decarbonisation.

Certain entities of the Group are subject to loan covenants. For both 2021 and 2020, there is no material non-compliance with those loan covenants.

Notes:

- (a) Total debt equals bank loans and other borrowings.
- (b) Net debt equals total debt less bank balances, cash and other liquid funds.
- (c) Total equity equals equity plus advances from non-controlling interests.
- (d) Total capital (based on total debt) equals total debt plus total equity.
- (e) Total capital (based on net debt) equals net debt plus total equity.



## CLP Power Hong Kong Limited and Castle Peak Power Company Limited

### Overview

In Hong Kong, CLP Power Hong Kong Limited (CLP Power Hong Kong) operates a vertically integrated electricity generation, transmission and distribution business. The generating plants in Hong Kong are owned by Castle Peak Power Company Limited (CAPCO), in which CLP Power Hong Kong owned 70%. CLP Power Hong Kong builds and operates CAPCO's power stations under contract and is the sole customer for CAPCO's electricity which CLP Power Hong Kong transmits and distributes to its customers in Kowloon, New Territories and most of the outlying islands. CLP Power Hong Kong owns the transmission and distribution network.

Since financial year 1964, the electricity-related operations of CLP Power Hong Kong and CAPCO (the SoC Companies) have been governed by a Scheme of Control (SoC) Agreement with the Hong Kong Government. The SoC specifies the SoC Companies' obligations to supply adequate and reliable electricity supplies to customers at the lowest reasonable cost and the mechanism for the Hong Kong Government to monitor their financial affairs and operating performance. In return, CLP Power Hong Kong is allowed to charge tariffs designed to recover the operating costs (including tax) and allowed net return of the SoC Companies.

The current SoC took effect from 1 October 2018 and covers a term of over 15 years ending on 31 December 2033. The SoC contains a provision to give the SoC Companies protection for stranded costs, which may arise as a result of future changes to the market structure which adversely impact on the SoC Companies' ability to recover and to earn returns on existing investments made in good faith in accordance with the SoC. These costs will include the costs of investments, fuel and power purchase agreements previously approved by the Hong Kong Government. If stranded costs arise after the SoC Companies have implemented mitigation measures reasonably required by the Hong Kong Government, the SoC Companies are entitled to recover them from the market, consistent with international practice. Three years before market changes are introduced, the SoC Companies and the Hong Kong Government will agree on the amount of stranded costs and the mechanism for their recovery by the SoC Companies.

### Tariff Setting Mechanism

For each year, CLP Power Hong Kong designs the total tariff it charges to cover the SoC Companies' operating costs and allowed net return. The total tariff consists of the following components:

- (i) basic tariff rate which is derived by taking into account the annual forecast of (a), (b) and (c) below, using the formula  $(a-b)/c$ :
  - (a) the allowed net return and operating costs including the standard cost of fuels; generation, transmission, distribution and administration expenses; depreciation; interest expenses; and taxes;
  - (b) 80% of the profit on electricity sales to Mainland China; and
  - (c) local unit sales as determined by the load forecast.
- (ii) fuel clause charge or rebate (Fuel Cost Adjustment) which represents the difference between the cost of fuels (including natural gas, coal and oil) and the standard cost recovered through the basic tariff rate. The Fuel Cost Adjustment may be adjusted from time to time, including on a monthly basis, to reflect changes in the cost of fuels consumed by the SoC Companies for the generation of electricity.

Any difference between the actual profit for SoC operations and the permitted return for the year is transferred to or from a Tariff Stabilisation Fund. The Tariff Stabilisation Fund does not form part of distributable shareholders' funds and represents a liability in the accounts of CLP Power Hong Kong. A charge on the average balance of the Tariff Stabilisation Fund is credited to a Rate Reduction Reserve in the accounts of CLP Power Hong Kong, which balance as at the end of each year is to be transferred to the Tariff Stabilisation Fund in the following year.

### Permitted and Net Return

The permitted and net return that the SoC Companies are allowed under the SoC are calculated as follows:

- ◆ The annual permitted return under the SoC is 8% of the SoC Companies' average net fixed assets.
- ◆ The net return under the SoC is the permitted return after the deduction or adjustment of the following items:
  - (a) interest up to a maximum of 7% per annum on borrowed capital arranged for financing fixed assets;
  - (b) a charge of the average one-month Hong Kong Interbank Offered Rate on the average balance of the Tariff Stabilisation Fund under the SoC, which is credited to the Rate Reduction Reserve;
  - (c) an excess capacity adjustment of 8% less an allowed interest charge up to 7% per annum on the average related excess capacity expenditure;
  - (d) interest up to 7% per annum on the increase in average balance of the customers' deposits in excess of the balance as at 30 September 1998; and
  - (e) performance-linked incentives / penalties adjustments

Category	% incentives (+) / penalties (-)
Operation performance related incentives / penalties	in the range of -0.05% to +0.05% on average net fixed assets
Energy efficiency and renewable performance incentives	<ul style="list-style-type: none"> <li>◆ a maximum of 0.315% on average net fixed assets</li> <li>◆ incentive of 10% of renewable energy certificates sales revenue</li> <li>◆ five-year energy saving and renewable energy connections incentives with a maximum of 0.11% on the average net fixed assets at the final year of the five-year period</li> </ul>
Demand response reduction incentive	a maximum of 0.025% on average net fixed assets

The net return is divided between the SoC Companies in accordance with the provisions of the agreements between the SoC Companies. These provisions state that each company will receive that proportion of the total net return represented by the net return that company would receive if it were the only company under the SoC and the net return were calculated solely on the basis of its own financial statements.

Under the SoC, 65% of the energy efficiency incentives earned by the SoC Companies are to be contributed to a CLP Community Energy Saving Fund (CESF) to support programmes in promotion of energy efficiency, use of renewable energy, the disadvantaged groups and other programmes as agreed with the Hong Kong Government.

The calculations shown on next page are in accordance with the SoC and the agreements between the SoC Companies.

**For the year ended 31 December**

	2021 HK\$M	2020 HK\$M
<b>SoC revenue</b>	<b>45,379</b>	41,905
Expenses		
Operating costs	5,186	5,170
Fuel	15,667	13,790
Purchases of nuclear electricity	5,678	5,582
Provision for asset decommissioning	111	141
Depreciation	5,434	5,011
Operating interest	857	976
Taxation	2,100	1,904
	<b>35,033</b>	32,574
Profit after taxation	10,346	9,331
Interest on borrowed capital	1,018	1,111
Adjustment for performance incentives	(438)	(416)
Profit for SoC	10,926	10,026
Transfer to Tariff Stabilisation Fund	(1,072)	(519)
Permitted return	9,854	9,507
Deduct interest on/ Adjustment for		
Borrowed capital as above	1,018	1,111
Performance incentives as above	(438)	(416)
Tariff Stabilisation Fund to Rate Reduction Reserve	3	18
	<b>583</b>	713
<b>Net return</b>	<b>9,271</b>	8,794
CESF contribution	(208)	(201)
<b>Net return after CESF contribution</b>	<b>9,063</b>	8,593
Divisible as follows:		
CLP Power Hong Kong	6,078	5,769
CAPCO	2,985	2,824
	<b>9,063</b>	8,593
CLP Power Hong Kong's share of net return after CESF contribution		
CLP Power Hong Kong	6,078	5,769
Interest in CAPCO	2,089	1,977
	<b>8,167</b>	7,746

## Five-year Summary: CLP Group Economic and Financial Data

	2021	2020	2019	2018	2017
<b>Consolidated Operating Results, HK\$M</b>					
Revenue					
Hong Kong electricity business	<b>44,311</b>	41,325	40,025	40,872	39,485
Energy businesses outside Hong Kong	<b>38,941</b>	37,687	45,088	49,793	52,101
Others	<b>707</b>	578	576	760	487
Total	<b>83,959</b>	79,590	85,689	91,425	92,073
Earnings					
Hong Kong electricity business	<b>8,189</b>	7,818	7,448	8,558	8,863
Hong Kong electricity business related	<b>301</b>	270	211	227	335
Mainland China	<b>1,660</b>	2,233	2,277	2,163	1,238
Australia	<b>(83)</b>	1,690	1,566	3,302	2,738
India	<b>221</b>	175	263	572	647
Southeast Asia and Taiwan	<b>173</b>	386	335	162	160
Other earnings in Hong Kong	<b>(66)</b>	(238)	(199)	(92)	(65)
Unallocated net finance (costs)/income	<b>(9)</b>	24	(42)	(54)	(2)
Unallocated Group expenses	<b>(869)</b>	(781)	(738)	(856)	(607)
Operating earnings	<b>9,517</b>	11,577	11,121	13,982	13,307
Impairment provision	<b>(148)</b>	-	(6,381)	(450)	-
Gain on sale of investment	<b>249</b>	-	-	-	-
Property revaluation	<b>(34)</b>	(121)	(83)	18	369
Reversal of tax provision	<b>-</b>	-	-	-	573
Other items affecting comparability from Australia	<b>(1,093)</b>	-	-	-	-
Total earnings	<b>8,491</b>	11,456	4,657	13,550	14,249
Dividends	<b>7,832</b>	7,832	7,782	7,630	7,352
Depreciation and amortisation, owned and leased assets	<b>9,308</b>	8,476	8,118	8,005	7,368
<b>Consolidated Statement of Financial Position, HK\$M</b>					
SoC fixed assets	<b>124,353</b>	119,873	117,042	113,295	109,824
Other fixed assets	<b>37,801</b>	36,642	33,744	34,650	33,914
Goodwill and other intangible assets	<b>19,710</b>	20,559	20,111	26,910	29,087
Interests in joint ventures	<b>10,602</b>	11,017	9,999	9,674	10,383
Interests in associates	<b>8,769</b>	9,181	8,708	7,746	8,081
Other non-current assets	<b>4,686</b>	3,568	3,193	2,739	3,152
Current assets	<b>33,888</b>	33,393	28,826	35,500	33,710
Total assets	<b>239,809</b>	234,233	221,623	230,514	228,151
Shareholders' funds	<b>113,034</b>	112,200	105,455	109,053	108,697
Perpetual capital securities	<b>3,887</b>	3,887	3,887	5,791	5,791
Other non-controlling interests	<b>9,788</b>	9,885	9,987	10,088	7,019
Equity	<b>126,709</b>	125,972	119,329	124,932	121,507
Bank loans and other borrowings	<b>58,215</b>	54,348	52,349	55,298	57,341
SoC reserve accounts	<b>3,440</b>	2,374	1,500	998	977
Other current liabilities	<b>27,286</b>	27,260	26,911	28,099	27,962
Other non-current liabilities	<b>24,159</b>	24,279	21,534	21,187	20,364
Total liabilities	<b>113,100</b>	108,261	102,294	105,582	106,644
Equity and total liabilities	<b>239,809</b>	234,233	221,623	230,514	228,151



	2021	2020	2019	2018	2017
<b>Consolidated Statement of Cash Flows, HK\$M</b>					
Funds from operations	<b>20,495</b>	24,418	23,502	26,584	26,506
Net cash inflow from operating activities	<b>18,078</b>	22,374	21,345	23,951	24,417
Net cash outflow from investing activities	<b>(11,822)</b>	(10,081)	(5,824)	(11,259)	(16,735)
Net cash outflow from financing activities	<b>(8,484)</b>	(10,211)	(14,944)	(11,505)	(5,863)
Capital expenditure, owned and leased assets	<b>(12,431)</b>	(10,586)	(10,448)	(10,327)	(9,538)
<b>Per Share Data, HK\$</b>					
Shareholders' funds per share	<b>44.74</b>	44.41	41.74	43.16	43.02
Earnings per share	<b>3.36</b>	4.53	1.84	5.36	5.64
Dividends per share	<b>3.10</b>	3.10	3.08	3.02	2.91
Closing share price					
Highest	<b>80.90</b>	84.20	96.85	96.95	85.30
Lowest	<b>71.75</b>	65.00	78.40	75.35	72.55
As at year-end	<b>78.75</b>	71.70	81.90	88.50	79.95
<b>Ratios</b>					
Return on equity, %	<b>7.5</b>	10.5	4.3	12.4	13.8
Operating return on equity, %	<b>8.5</b>	10.6	10.4	12.8	12.9
Total debt to total capital, %	<b>31.3</b>	30.0	30.3	30.4	31.8
Net debt to total capital, %	<b>28.1</b>	25.1	26.7	25.5	27.8
FFO interest cover, times	<b>12</b>	13	12	13	15
Price/Earnings, times	<b>23</b>	16	45	17	14
Dividend yield, %	<b>3.9</b>	4.3	3.8	3.4	3.6
Dividend cover <sup>1</sup> , times	<b>1.2</b>	1.5	1.4	1.8	1.8
Dividend pay-out, %					
Total earnings	<b>92.2</b>	68.4	167.1	56.3	51.6
Operating earnings	<b>82.3</b>	67.7	70.0	54.6	55.2
Total return to shareholders <sup>2</sup> , %	<b>5.8</b>	5.2	8.7	9.6	8.4
<b>Group Generation Capacity<sup>3</sup></b>					
(owned /operated /under construction), MW					
– by region					
Hong Kong	<b>8,243</b>	8,143	7,568	7,543	7,483
Mainland China	<b>7,985</b>	7,905	7,905	7,869	7,985
Australia	<b>4,537</b>	4,511	4,508	4,478	4,505
India	<b>2,040</b>	1,890	1,842	1,796	2,948
Southeast Asia and Taiwan	<b>285</b>	285	285	285	285
	<b>23,090</b>	22,734	22,108	21,971	23,206
– by status					
Operational	<b>22,235</b>	22,184	21,468	21,127	22,118
Construction	<b>855</b>	550	640	844	1,088
	<b>23,090</b>	22,734	22,108	21,971	23,206

Notes:

- 1 Dividend cover = Operating earnings per share / Dividend per share
- 2 Total return to shareholders represents the 10-year annualised rate of return from the combination of share price appreciation and dividend payments.
- 3 Group generation capacity (in MW) is incorporated on the following basis: (a) CAPCO on 100% capacity as stations operated by CLP Power Hong Kong; (b) Ecogen (2017) on 100% as having right to use; and (c) other stations (including Ecogen since 2018) on the proportion of the Group's equity interests.

# Five-year Summary: CLP Group Environmental, Social and Governance (ESG) Data

## Environmental

Performance Indicators	Units	2021	2020	2019	2018	2017	GRI Standards (GRI)/ HKEx ESG Reporting Guide (HKEx)/SASB Standards for Electric Utilities (SASB)/ ISSB Climate-related Disclosures Prototype (ISSB)
<b>Greenhouse Gas Emissions</b>							
<b>CLP Group<sup>1</sup></b>							
Total CO <sub>2</sub> e emissions – on an equity basis <sup>2,3</sup>	kt	<b>65,017</b>	62,138	71,720	N/A	N/A	GRI 305-1, 305-2, 305-3/ HKEx A1.2/SASB IF-EU-110a.1, IF-EU-110a.2/ISSB 13-a
Scope 1 CO <sub>2</sub> e <sup>4</sup>	kt	<b>47,690</b>	45,105	50,047	N/A	N/A	
Scope 2 CO <sub>2</sub> e	kt	<b>236</b>	244	250	N/A	N/A	
Scope 3 CO <sub>2</sub> e	kt	<b>17,091</b>	16,790	21,424	N/A	N/A	
<b>CLP Group's generation and energy storage portfolio<sup>3,4,5</sup></b>							
CO <sub>2</sub> – on an equity basis <sup>6</sup>	kt	<b>47,574</b>	44,987	N/A	N/A	N/A	GRI 305-1, 305-2/HKEx A1.2
CO <sub>2</sub> e – on an equity basis <sup>6</sup>	kt	<b>47,813</b>	N/A	N/A	N/A	N/A	
CO <sub>2</sub> – on an equity plus long-term capacity and energy purchase basis <sup>7,8</sup>	kt	<b>51,674</b>	48,621	N/A	N/A	N/A	
CO <sub>2</sub> e – on an equity plus long-term capacity and energy purchase basis <sup>7,8</sup>	kt	<b>51,941</b>	N/A	N/A	N/A	N/A	
CO <sub>2</sub> – on an operational control basis <sup>6</sup>	kt	<b>46,842</b>	43,808	50,412	52,052	47,921 <sup>9</sup>	
CO <sub>2</sub> e – on an operational control basis <sup>6</sup>	kt	<b>47,090</b>	44,023	50,676	52,306	48,082	
<b>Climate Vision 2050</b>							
<b>CLP Group – GHG emissions intensity of generation and energy storage portfolio<sup>3,4,5,10</sup></b>							
On an equity plus long-term capacity and energy purchase basis <sup>7,8</sup>	kg CO <sub>2</sub> e/kWh	<b>0.57</b>	0.57	0.63	0.66	0.69 <sup>9</sup>	GRI 305-4/HKEx A1.2/ISSB 15
On an equity basis <sup>6</sup>	kg CO <sub>2</sub> e/kWh	<b>0.65</b>	0.66	0.71	0.74	0.80 <sup>9</sup>	
<b>Resource Use &amp; Emissions<sup>3,11,12</sup></b>							
Nitrogen oxides (NO <sub>x</sub> ) emissions	kt	<b>45.7</b>	43.2	47.0	60.9	59.3	GRI 305-7/HKEx A1.1/ SASB IF-EU-120.a.1
Sulphur dioxide (SO <sub>2</sub> ) emissions	kt	<b>52.7</b>	48.0	44.7	76.1	81.6	
Particulates emissions	kt	<b>7.6</b>	6.9	7.7	8.5	8.3	
Sulphur hexafluoride (SF <sub>6</sub> )	kt	<b>0.004</b>	0.003	N/A	N/A	N/A	
Non-hazardous waste produced <sup>13</sup>	t (solid)/kl (liquid)	<b>24,481/65</b>	17,901/3	13,344/59	11,471/52	20,334/103	GRI 306-2/HKEx A1.4
Non-hazardous waste recycled <sup>13</sup>	t (solid)/kl (liquid)	<b>4,214/65</b>	4,458/3	4,986/57	3,990/52	3,790/103	
Hazardous waste produced <sup>13</sup>	t (solid)/kl (liquid)	<b>1,524/1,017</b>	1,503/1,091	862/1,578	1,435/1,685	857/1,420	GRI 306-2/HKEx A1.3
Hazardous waste recycled <sup>13</sup>	t (solid)/kl (liquid)	<b>520/947</b>	523/1,069	201/1,536	631/1,648	469/1,384	
Ash produced/recycled and sold	kt	<b>3,403/2,501</b>	2,624/1,793	3,032/3,667	3,419/2,263	3,005/1,745	SASB IF-EU-150a.1
Gypsum produced/recycled and sold	kt	<b>367/365</b>	334/335	441/438	253/250	156/161	
Total water withdrawal	Mm <sup>3</sup>	<b>5,160.0</b>	5,162.7 <sup>14</sup>	5,219.9 <sup>14</sup>	5,153.6	4,480.6	GRI 2-4, 303-3/HKEx A2.2/ SASB IF-EU-140a.1 GRI 2-4, 303-4
Total water discharge	Mm <sup>3</sup>	<b>5,122.5</b>	5,133.8 <sup>14</sup>	5,179.6 <sup>14</sup>	5,103.2	4,437.7	
<b>Fuel Use</b>							
Coal consumed (for power generation)	TJ	<b>426,190</b>	403,379	485,453	521,568	471,976	GRI 302-1/HKEx A2.1
Gas consumed (for power generation)	TJ	<b>142,304</b>	134,776	107,183	83,364	91,426	
Oil consumed (for power generation)	TJ	<b>2,717</b>	2,243	2,620	3,807	5,069	
<b>Environmental Compliance</b>							
Environmental regulatory non-compliances resulting in fines or prosecutions	number	<b>0</b>	0	0	0	0	GRI 2-27
Environmental licence limit exceedances & other non-compliances	number	<b>9</b>	4	10	2	13	

### Notes:

- Refers to a range of businesses, including generation and energy storage portfolio, transmission and distribution, retail and others.
- Numbers have been subject to rounding. Any discrepancies between the total shown and the sum of the amounts listed are due to rounding.
- Paguthan Power Station, the power purchase agreements of which expired in December 2018, was not included in the 2019-2021 numbers.
- In accordance with the Greenhouse Gas Protocol, WE Station, which makes use of landfill gas from waste for power generation, is not included in CLP's Scope 1 CO<sub>2</sub>e emissions and is reported separately in the Asset Performance Statistics of the Sustainability Report. Its non-CO<sub>2</sub> GHG emissions (i.e. CH<sub>4</sub> and N<sub>2</sub>O) are included in CLP's Scope 1 CO<sub>2</sub>e emissions.
- Starting from 2020, the portfolio includes energy storage assets and generation assets. Energy storage assets include pumped storage and battery storage. In previous years, the portfolio included generation assets only.
- Numbers include Scope 1 and Scope 2 emissions.
- Numbers include assets with majority and minority shareholdings, and those under "long-term capacity and energy purchase" arrangements with CLP. Starting from 2018, "long-term capacity and energy purchase" has been defined as a purchase agreement with a duration of at least five years, and capacity or energy purchased being no less than 10MW.
- Numbers include Scope 1, Scope 2 and Scope 3 Category 3 emissions (direct emissions from generation of purchased electricity that is sold to CLP's customers).
- CO<sub>2</sub>e emissions of Yallourn and Hallett Power Stations were used to calculate CO<sub>2</sub>e emissions metrics in 2017 due to limited data availability.

Performance Indicators	Units	2021	2020	2019	2018	2017	GRI/HKEx/SASB/ISSB
<b>Asset management</b> <sup>2,15</sup>							
<b>Total generation and energy storage capacity by asset type – on an equity basis</b>	MW (%)	<b>20,018 (100)</b>	19,691 (100)	19,238 (100)	19,108 (100)	19,395 (100)	GRI 2-4/ISSB 13
Coal	MW (%)	<b>10,795 (53.9)</b>	10,765 (54.7)	10,765 (56.0)	10,765 (56.3)	11,401 (58.8)	
Gas	MW (%)	<b>4,666 (23.3)</b>	4,600 (23.4)	4,194 (21.8)	4,147 (21.7)	3,434 (17.7)	
Nuclear	MW (%)	<b>1,600 (8.0)</b>	1,600 (8.1)	1,600 (8.3)	1,600 (8.4)	1,600 (8.2)	
Wind <sup>16</sup>	MW (%)	<b>1,747 (8.7)</b>	1,521 (7.7)	1,521 (7.9)	1,521 (8.0)	1,941 (10.0)	
Hydro <sup>16</sup>	MW (%)	<b>489 (2.4)</b>	489 (2.5)	489 (2.5)	489 (2.6)	489 (2.5)	
Solar <sup>16</sup>	MW (%)	<b>499 (2.5)</b>	499 (2.5)	451 (2.3)	369 (1.9)	321 (1.7)	
Waste-to-energy <sup>16</sup>	MW (%)	<b>7 (0.0)</b>	7 (0.0)	7 (0.0)	7 (0.0)	N/A	
Energy Storage	MW (%)	<b>5 (0.0)</b>	0 (0.0)	N/A	N/A	N/A	
Others	MW (%)	<b>210 (1.0)</b>	210 (1.1)	210 (1.1)	210 (1.1)	210 (1.1)	
<b>Total generation and energy storage capacity by asset type – on an equity plus long-term capacity and energy purchase basis<sup>7</sup></b>	MW (%)	<b>25,108 (100)</b>	24,752 (100) <sup>17</sup>	24,015 (100)	23,705 (100)	24,554 (100)	
Coal	MW (%)	<b>12,027 (47.9)</b>	11,997 (48.5)	11,997 (50.0)	11,997 (50.6)	12,633 (51.4)	
Gas	MW (%)	<b>5,813 (23.2)</b>	5,717 (23.1)	5,139 (21.4)	5,084 (21.4)	5,322 (21.7)	
Nuclear	MW (%)	<b>2,685 (10.7)</b>	2,685 (10.8)	2,685 (11.2)	2,685 (11.3)	2,488 (10.1)	
Wind <sup>18</sup>	MW (%)	<b>2,331 (9.3)</b>	2,105 (8.5) <sup>17</sup>	2,049 (8.5)	1,982 (8.4)	2,401 (9.8)	
Hydro <sup>18</sup>	MW (%)	<b>489 (1.9)</b>	489 (2.0)	489 (2.0)	489 (2.1)	489 (2.0)	
Solar <sup>18</sup>	MW (%)	<b>793 (3.2)</b>	793 (3.2)	745 (3.1)	558 (2.4)	321 (1.3)	
Waste-to-energy <sup>18</sup>	MW (%)	<b>10 (0.0)</b>	10 (0.0)	10 (0.0)	10 (0.0)	N/A	
Energy Storage	MW (%)	<b>660 (2.6)</b>	655 (2.6)	N/A	N/A	N/A	
Others	MW (%)	<b>300 (1.2)</b>	300 (1.2)	900 (3.7)	900 (3.8)	900 (3.7)	
<b>Total energy sent out by asset type<sup>3</sup> – on an equity basis</b>	GWh (%)	<b>73,113 (100)</b>	68,699 (100)	70,949 (100)	N/A	N/A	GRI 2-4/SASB IF-EU-000.D/ISSB 13
Coal	GWh (%)	<b>42,002 (57.4)</b>	39,438 (57.4)	44,596 (62.9)	N/A	N/A	
Gas	GWh (%)	<b>13,233 (18.1)</b>	12,390 (18.0)	9,979 (14.1)	N/A	N/A	
Nuclear	GWh (%)	<b>12,302 (16.8)</b>	11,192 (16.3)	10,888 (15.3)	N/A	N/A	
Wind <sup>19</sup>	GWh (%)	<b>2,959 (4.0)</b>	2,886 (4.2)	2,924 (4.1)	N/A	N/A	
Hydro <sup>19</sup>	GWh (%)	<b>1,668 (2.3)</b>	1,879 (2.7)	1,758 (2.5)	N/A	N/A	
Solar <sup>19</sup>	GWh (%)	<b>922 (1.3)</b>	898 (1.3)	805 (1.1)	N/A	N/A	
Waste-to-energy <sup>19</sup>	GWh (%)	<b>27 (0.0)</b>	15 (0.0)	0 (0.0)	N/A	N/A	
Energy Storage	GWh (%)	<b>0 (0.0)</b>	0 (0.0)	N/A	N/A	N/A	
Others	GWh (%)	<b>0 (0.0)</b>	1 (0.0)	0 (0.0)	N/A	N/A	
<b>Total energy sent out by asset type<sup>3,20</sup> – on an equity plus long-term capacity and energy purchase basis<sup>7</sup></b>	GWh (%)	<b>91,183 (100)</b>	85,949 (100) <sup>17</sup>	88,573 (100)	(100)	(100)	
Coal	GWh (%)	<b>43,995 (48.2)</b>	41,118 (47.8)	48,512 (54.8)	(60)	(61)	
Gas	GWh (%)	<b>18,461 (20.2)</b>	17,157 (20.0)	13,073 (14.8)	(12)	(15)	
Nuclear	GWh (%)	<b>20,962 (23.0)</b>	19,923 (23.2)	19,400 (21.9)	(20)	(15)	
Wind <sup>21</sup>	GWh (%)	<b>4,611 (5.1)</b>	4,445 (5.2) <sup>17</sup>	4,474 (5.0)			
Hydro <sup>21</sup>	GWh (%)	<b>1,668 (1.8)</b>	1,879 (2.2)	1,758 (2.0)	(8)	(9)	
Solar <sup>21</sup>	GWh (%)	<b>1,524 (1.7)</b>	1,522 (1.8)	1,467 (1.7)			
Waste-to-energy <sup>21</sup>	GWh (%)	<b>38 (0.0)</b>	22 (0.0)	0 (0.0)	N/A	N/A	
Energy Storage	GWh (%)	<b>-75 (-0.1)</b>	-118 (-0.1)	N/A	N/A	N/A	
Others	GWh (%)	<b>1 (0.0)</b>	1 (0.0)	-109 (-0.1)	(0)	(0)	

Notes:

- The 2019-2021 numbers refer to the GHG emissions intensity (kg CO<sub>2</sub>e/kWh), in line with the updated Climate Vision 2050 targets. Numbers prior to 2019 refer to carbon emissions intensity (kg CO<sub>2</sub>/kWh), as reported in the past.
- Numbers include operating assets where CLP has operational control during the calendar year.
- Since 2019, numbers at the asset level have been aggregated and then rounded.
- Waste categorised in accordance with local regulations.
- Restated as per updated data for Newport Power Station in Australia.
- Starting from 2020, a new "Energy Storage" asset category is added, under which pumped storage and battery storage are included. In previous years, assets under the "Others" category included oil-fired generation assets and pumped storage.
- Renewables include wind, hydro, solar and waste-to-energy. The total capacity of renewables on an equity basis is 2,743MW (13.7%) in 2021.
- Restated as per updated data for Power Purchase Agreement (PPA) of Waterloo Wind Farm in Australia.
- Renewables include wind, hydro, solar and waste-to-energy. The total capacity of renewables on an equity plus long-term capacity and energy purchase basis is 3,624MW (14.4%) in 2021.
- Renewables include wind, hydro, solar and waste-to-energy. The total sent out of renewables on an equity basis is 5,576GWh (7.6%) in 2021.
- Only percentages are available for the years 2017-18.
- Renewables include wind, hydro, solar and waste-to-energy. The total sent out of renewables on an equity plus long-term capacity and energy purchase basis is 7,840GWh (8.6%) in 2021.

All 2021 data in the above table have been independently verified by PricewaterhouseCoopers **except** those numbers which are shaded in grey.

For more detailed narrative on the “Environmental, Social and Governance” related performance indicators, please refer to Capitals chapters and the Corporate Governance Report of this Annual Report.

## Social and Governance

Performance Indicators	Units	2021	2020	2019	2018	2017	GRI/HKEx/SASB/ISSB
<b>Employees<sup>1</sup></b>							
Employees by region							GRI 2-7/HKEx B1.1
Hong Kong	number	4,771	4,689	4,604	4,538	4,504	
Mainland China	number	627	609	607	596	577	
Australia	number	2,281	2,320	2,280	2,042	1,998	
India	number	437	442	469	458	463	
Total	number	8,116	8,060	7,960	7,634	7,542	
Employees eligible to retire within the next five years <sup>2</sup>							GRI EU15
Hong Kong	%	20.1	20.4	19.5	20.0	18.6	
Mainland China	%	15.1	13.4	14.5	13.2	10.6	
Australia <sup>3</sup>	%	6.6	5.7	5.4	12.8	12.2	
India	%	5.0	5.1	4.8	4.0	2.4	
Total	%	14.6	14.5	13.9	16.4	15.1	
Voluntary staff turnover rate <sup>4,5</sup>							GRI 401-1/HKEx B1.2
Hong Kong	%	4.6	3.1	2.4	2.3	1.9	
Mainland China	%	2.3	1.3	2.0	4.7	3.0	
Australia	%	16.1	7.7	12.9	13.6	13.8	
India	%	6.9	4.7	6.6	5.6	3.5	
Average training hours per employee	hours	51.6	42.5	40.1	46.1	46.9	GRI 404-1/HKEx B3.2
<b>Safety<sup>6</sup></b>							
Fatalities – employees only <sup>7,8</sup>	number of personnel	0	0	0	1	0	GRI 403-2/HKEx B2.1
Fatalities – contractors only <sup>7,8</sup>	number of personnel	0	0	1	1	4	
Fatalities – employees and contractors combined <sup>7,8</sup>	number of personnel	0	0	1	2	4	
Fatality Rate – employees only <sup>9,10</sup>	rate	0.00	0.00	0.00	0.01	0.00	GRI 403-2/HKEx B2.1/ SASB IF-EU-320a.1
Fatality Rate – contractors only <sup>9,10</sup>	rate	0.00	0.00	0.01	0.01	0.03	
Fatality Rate – employees and contractors combined <sup>9,10</sup>	rate	0.00	0.00	0.00	0.01	0.02	
Days Away From Work Injuries – employees only <sup>8,11</sup>	number of personnel	4	12	7	11	11	GRI 403-2
Days Away From Work Injuries – contractors only <sup>8,11</sup>	number of personnel	10	10	19	11	16	
Days Away From Work Injuries – employees and contractors combined <sup>8,11</sup>	number of personnel	14	22	26	22	27	
Lost Time Injury Rate – employees only <sup>10,12</sup>	rate	0.05	0.13	0.07	0.13	0.13	
Lost Time Injury Rate – contractors only <sup>10,12</sup>	rate	0.08	0.09	0.14	0.09	0.14	
Lost Time Injury Rate – employees and contractors combined <sup>10,12</sup>	rate	0.07	0.11	0.11	0.10	0.13	

Notes:

- Starting from 2019, numbers have included full-time and part-time employees. Numbers in the previous years included full-time employees only.
- The percentages given refer to permanent employees within each region, who are eligible to retire within the next five years.
- There is no mandatory retirement age in Australia. Since 2019, the retirement age assumption has been adjusted from 60 to 65 to reflect local norms, which led to a significantly lower percentage compared to previous years. Numbers in previous years adopting the adjusted retirement age for Australia are as follows: 2017 – Australia: 4.8%/Group total: 12.9%; 2018 – Australia: 4.6%/Group total: 14.0%.
- Voluntary staff turnover refers to employees leaving the organisation voluntarily and does not include dismissal, retirement, company-initiated termination or end of contract.
- Includes permanent employees except for Mainland China, which includes both permanent and fixed-term contract employees due to local employment legislation.
- The system of rules applied in recording and reporting accident statistics complies with the International Labour Organization (ILO) Code of Practice on Recording and Notification of Occupational Accidents and Diseases.
- Refers to the number of fatalities as a result of work-related injury.
- Starting from 2021, the unit is changed from the number of cases to the number of personnel.
- Refers to the number of fatal injuries per 200,000 work hours in the year.



Performance Indicators	Units	2021	2020	2019	2018	2017	GRI/HKEx/SASB/ISSB
High-consequence Injuries – employees only <sup>13</sup>	number of personnel	0	N/A	N/A	N/A	N/A	GRI 403-9
High-consequence Injuries – contractors only <sup>13</sup>	number of personnel	1	N/A	N/A	N/A	N/A	
High-consequence Injuries – employees and contractors combined <sup>13</sup>	number of personnel	1	N/A	N/A	N/A	N/A	
Total Recordable Injury Rate – employees only <sup>10, 14</sup>	rate	0.14	0.25	0.19	0.19	0.21	GRI 403-2/SASB IF-EU-320a.1
Total Recordable Injury Rate – contractors only <sup>10, 14</sup>	rate	0.29	0.37	0.52	0.29	0.36	
Total Recordable Injury Rate – employees and contractors combined <sup>10, 14</sup>	rate	0.23	0.32	0.38	0.25	0.29	
Work-related Ill Health – employees only <sup>8, 15</sup>	number of personnel	1	0	0	1	0	GRI 403-10/HKEx B2.1
Lost Days – employees only <sup>16</sup>	number of days	304 <sup>17</sup>	443 <sup>18</sup>	464 <sup>19</sup>	249	252	GRI 403-2/HKEx B2.2
<b>Governance</b>							
Convicted cases of corruption reported to the Audit & Risk Committee	cases	0	0	0	0	0	GRI 205-3/HKEx B7.1
Breaches of Code of Conduct reported to the Audit & Risk Committee	cases	18	25	31	20	28	

Notes:

- 10 Rates are normalised to 200,000 work hours, which approximately equals to the number of hours worked by 100 people in one year.
- 11 Starting from 2021, "Days Away From Work Injuries" replaces "Lost Time Injury". Days Away From Work Injuries refers to the number of personnel who sustains work-related injury and is unfit to perform any work on any day after the occurrence of the injury. "Any day" is any calendar day which includes rest days, weekend days, leave days, public holidays or days after ceasing employment. It does not include the day the injury incident occurred. "Days Away From Work Injuries" excludes fatalities which were included in "Lost Time Injury". Numbers prior to 2021 are the previously reported numbers for "Lost Time Injury".
- 12 Refers to the number of Days Away From Work Injuries and Fatalities per 200,000 work hours in the year.
- 13 Refers to the number of personnel who sustains life threatening or life-altering work-related injury. It is a subset of Days Away From Work Injuries.
- 14 Refers to the number of Total Recordable Injuries per 200,000 work hours in the year. Total Recordable Injuries include Fatalities, Days Away From Work Injuries, Restricted Work Injuries, and Medical Treatment Injuries.
- 15 Starting from 2021, "Work-related Ill Health" replaces "Occupational Disease". Work-related Ill Health includes the diseases listed in the ILO List of Occupational Diseases, work-related mental illnesses and work-related disorders. Numbers prior to 2021 are the previously reported numbers for "Occupational Disease".
- 16 Starting from 2021, "Lost Days" replaces "Days Lost". "Lost Days" is the sum total of calendar days (consecutive or otherwise) after the days on which the work-related injuries and work-related ill health occurred. "Days Lost" accounts the working days instead of calendar days. Numbers prior to 2021 are the previously reported numbers for "Days Lost".
- 17 19 out of 304 days were carried forward from one incident in 2020.
- 18 188 out of 443 days were carried forward from one incident in the past.
- 19 158 out of 464 days were carried forward from three incidents in the past.

All 2021 data in the above table have been independently verified by PricewaterhouseCoopers **except** those numbers which are shaded in grey.

# Five-year Summary: Scheme of Control Financial & Operating Statistics

## CLP Power Hong Kong Limited and Castle Peak Power Company Limited

	2021	2020	2019	2018	2017
<b>SoC Financial Statistics</b>					
<b>Combined Profit &amp; Loss Statement, HK\$M</b>					
Profit for SoC	10,926	10,026	9,744	10,756	10,783
Transfer (to)/from Tariff Stabilisation Fund	(1,072)	(519)	(526)	(191)	42
Permitted return	9,854	9,507	9,218	10,565	10,825
Less: Interest on/Adjustment for					
Borrowed capital	1,018	1,111	1,100	1,055	976
Increase in customers' deposits	-	-	4	1	-
Performance incentives	(438)	(416)	(392)	(105)	(54)
Tariff Stabilisation Fund	3	18	22	11	4
Net return	9,271	8,794	8,484	9,603	9,899
<b>Combined Balance Sheet, HK\$M</b>					
Net assets employed					
Fixed assets	125,827	120,523	117,157	113,295	109,824
Non-current assets	134	351	213	198	268
Current assets	8,359	6,350	4,231	6,559	7,606
	134,320	127,224	121,601	120,052	117,698
Less: current liabilities	25,311	23,046	28,115	24,699	22,565
Net assets	109,009	104,178	93,486	95,353	95,133
Exchange fluctuation account	606	555	9	81	(21)
	109,615	104,733	93,495	95,434	95,112
Represented by					
Equity	49,934	47,807	46,205	46,569	44,736
Long-term loans and other borrowings	38,328	37,146	29,792	32,274	34,251
Deferred liabilities	18,244	17,761	16,020	15,650	15,379
Tariff Stabilisation Fund	3,109	2,019	1,478	941	746
	109,615	104,733	93,495	95,434	95,112
<b>Other SoC Information, HK\$M</b>					
Total electricity sales	45,222	41,798	40,473	40,982	39,161
Capital expenditure	11,222	8,882	9,097	8,922	8,068
Depreciation	5,434	5,011	4,753	4,931	4,706
<b>SoC Operating Statistics</b>					
<b>Customers and Sales</b>					
Number of customers (thousand)	2,711	2,672	2,636	2,597	2,556
Sales analysis, millions of kWh					
Commercial	13,423	12,878	13,584	13,425	13,220
Manufacturing	1,665	1,616	1,663	1,704	1,740
Residential	10,525	10,298	9,451	9,191	9,217
Infrastructure and Public Services	9,742	9,171	9,586	9,342	8,987
Local	35,355	33,963	34,284	33,662	33,164
Export	-	-	-	556	1,341
Total Electricity Sales	35,355	33,963	34,284	34,218	34,505
Annual change, %	4.1	(0.9)	0.2	(0.8)	0.2
Renewable Energy Certificate Sold, millions of kWh	15	5	3	-	-
Local consumption, kWh per person	5,704	5,404	5,459	5,433	5,397
Local sales, HK¢ per kWh (average)					
Basic Tariff	93.6	92.3	90.7	93.3	91.8
Fuel Cost Adjustment <sup>1</sup>	30.2	28.4	27.9	23.2	21.0
Total Tariff	123.8	120.7	118.6	116.5	112.8
Rent and Rates Special Rebate <sup>2</sup>	-	(1.2)	(0.1)	(1.1)	-
Net Tariff <sup>3</sup>	123.8	119.5	118.5	115.4	112.8
Annual change in Basic Tariff, %	1.4	1.8	(2.8)	1.6	3.3
Annual change in Total Tariff, %	2.6	1.8	1.8	3.3	(0.4)
Annual change in Net Tariff, %	3.6	0.8	2.7	2.3	(0.4)



	2021	2020	2019	2018	2017
<b>Generation (Including Affiliated Generating Companies)</b>					
Installed capacity, MW	9,623	9,573	8,988	8,963	8,913
System maximum demand					
Local, MW <sup>4</sup>	7,477	7,264	7,206	7,036	7,155
Annual change, %	2.9	0.8	2.4	(1.7)	4.6
System load factor, %	58.8	57.3	59.8	58.8	53.0
Generation by CAPCO stations, millions of kWh	25,330	23,752	24,952	24,642	25,032
Sent out, millions of kWh –					
From own generation	24,109	22,605	23,369	23,032	23,456
Net transfer from GNPS/GSPS/Others	12,484	12,583	12,276	12,504	12,428
From Feed-in Tariff customers	111	45	9	–	–
Total	36,704	35,233	35,654	35,536	35,884
Fuel consumed, terajoules –					
Oil	1,928	1,538	1,711	2,714	3,894
Coal	75,307	63,505	141,830	150,310	148,065
Gas	132,609	131,244	80,695	72,969	75,807
Total	209,844	196,287	224,236	225,993	227,766
Cost of fuel, HK\$ per gigajoule – Overall	70.25	65.94	55.47	54.79	49.30
Thermal efficiency, % based on units sent out	41.3	40.8	37.5	36.7	37.1
Plant availability, %	84.4	87.5	86.4	86.4	84.6
<b>Transmission and Distribution</b>					
Network, circuit kilometres					
400kV	555	555	555	554	554
132kV	1,638	1,638	1,630	1,601	1,606
33kV	22	22	22	22	22
11kV	14,182	13,990	13,782	13,643	13,455
Transformers, MVA	67,479	66,633	65,753	65,109	64,441
Substations –					
Primary	237	235	232	232	232
Secondary	15,204	15,028	14,867	14,685	14,483
<b>Employees and Productivity</b>					
Number of SoC employees	3,900	3,861	3,815	3,798	3,831
Productivity, thousands of kWh per employee	9,111	8,849	9,007	8,825	8,683

Notes:

- The Fuel Cost Adjustment has replaced the Fuel Clause Charge effective from October 2014. Commencing 1 October 2018, the Fuel Cost Adjustment is automatically adjusted on a monthly basis to reflect changes in actual price of fuel used.
- CLP Power Hong Kong provided customers with a Rent and Rates Special Rebate of 1.1 cents per unit from January 2018 to mid-February 2019 and 1.2 cents per unit in 2020, returning to customers the refunds received from the Government in relation to CLP Power's claims against the Government's overcharged rent and rates.
- Effective net tariffs including one-off special fuel rebates in 2017 was 110.5 cents per unit.
- Without taking into account the effect of the customer programme of demand response pursued to reduce electricity usage, the maximum demand would have been higher at 7,269 MW in 2019, 7,369 MW in 2020 and 7,551 MW in 2021.

