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Provision of information by The Hongkong Electric Company, Limited (HEC) for Economic Development Panel of the Legislative Council

I. Information related to the 2019-2023 Development Plan

1. Capital expenditure forecasts under the 2019-2023 Development Plan

Categories 1 (\$ million)	Total
Power Generation System	16,224.4
Transmission & Distribution System	9,064.6
Customer and Corporate Services Development	1,297.3
Grand Total	26,586.3

Note 1: Detailed breakdown of capital expenditure shown on page 2.

In the event of discrepancies between the English and Chinese versions, the Chinese version shall prevail.

Item	Project	Project Total CapEx (HK\$M)
G.	Power Generation System	
G.1	Lamma Extension – L10 Combined Cycle Gas Generating Unit	
G.2	Lamma Extension – L11 Combined Cycle Gas Generating Unit	
G.3	Lamma Extension – L12 Combined Cycle Gas Generating Unit	
G.4	Lamma Extension – Preparatory Field Work for L13 Combined Cycle Gas Generating Unit	
G.5	Po Toi Island Solar Renewable Energy System	
G.6	Offshore LNG Terminal	
G.7	Reprovision of Retired Open Cycle Gas Turbine Units	
G.8	Upgrade of L9 Combined Cycle Gas Generating Unit Reliability	
G.9	Improvement and Upgrade of Coal and Ash Handling System	
G.10	Common Utilities and Provisions at Lamma Extension	
G.11	Improvement and Upgrade of Common Facilities, Civil Works, and Other Auxiliaries for Generation System	
T&D.	Transmission & Distribution System	
T&D.1	Cable Replacement for Kennedy Road-Davis 132-kV Circuits	
T&D.2	Cable Replacement for Kennedy Road-Moreton Terrace 132-kV Circuits	
T&D.3	Power Supply to MTRC Shatin to Central Link (North South Corridor)	
T&D.4	Zone Substation Development	
T&D.5	Additional Transmission System for New Generating Units	
T&D.6	Construction of New Distribution Network to Supply New Customers	
T&D.7	Zone Substation Improvement to Enhance Reliability	
T&D.8	132-kV & 275-kV Transmission System Improvement & Reliability Upgrade	
T&D.9	HV/LV Distribution Systems Reinforcement	
T&D.10	Grid Automation and Control Improvement	
T&D.11	Smart Meters and Advanced Metering Infrastructure	
T&D.12	Other Improvement and Reliability Upgrade Works for Transmission and Distribution System	
C.	Customer and Corporate Services Development	
C.1	Replacement and Upgrade of IT System and Infrastructure	
C.2	Communication System, Customer Services, Operation Premises Improvement, and Miscellaneous	
	Total CapEx of All the Above Projects	26,586.3

Notes to the confidential figures:

Since a lot of works are in progress under individual projects, revealing the capital expenditure forecast would not be appropriate. Such projects may be in the tendering stage or having potential contractual disputes with the contractors or suppliers. As a result, revealing such confidential figures may not benefit customers.

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2. Tariff component by year – Five-year development plan forecast compared with annual tariff review

Tariff (Component (cents/kWh)		2018	2019	2020	2021	2022	2023
				DP Forecast/				
			Annual Tariff	Annual Tariff				
			Review	Review*	DP Forecast	DP Forecast	DP Forecast	DP Forecast
(A)	Basic Tariff		109.1	101.3	105.3	110.2	114.8	115.7
	Increase/(Decrease)%							
	Annual			-7.1%	+3.9%	+4.7%	+4.2%	+0.8%
	Since 2018			-7.1%	-3.5%	+1.0%	+5.2%	+6.0%
(B)	Special Rent & Rates Rebate		-4.0	-2.3	-0.3	-	-	-
(C)	Net Basic Tariff		105.1	99.0	105.0	110.2	114.8	115.7
	Increase/(Decrease)%							
	Annual			-5.8%	+6.1%	+5.0%	+4.2%	+0.8%
	Since 2018			-5.8%	-0.1%	+4.9%	+9.2%	+10.1%
(D)	Fuel Clause Charge		23.4	23.4	25.8	27.5	29.8	36.2
	Increase/(Decrease)%							
	Annual			-%	+10.3%	+6.6%	+8.4%	+21.5%
	Since 2018			-%	+10.3%	+17.5%	+27.4%	+54.7%
(E)	Special Fuel Rebate		-16.0	-2.3	-	-	-	-
(F)	Net Tariff		112.5	120.1	130.8	137.7	144.6	151.9
	Increase/(Decrease)%							
	Annual			+6.8%	+8.9%	+5.3%	+5.0%	+5.0%
	Since 2018			+6.8%	+16.3%	+22.4%	+28.5%	+35.0%
(G)	Tariff Stabilization Fund	(\$M)	331.0	328.5	326.8	325.7	324.9	268.7
(H)	Fuel Clause Recovery Account CR/(DR)	(\$M)	978.5	614.8	413.2	330.3	288.9	38.7

^{*} The two exercises were done at the same time

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Provisions of information by The Hongkong Electric Company Limited (HEC) for Economic Development Panel of the Legislative Council

II. Information related to tariff adjustments

1. Tariff Adjustment

	2018 Tariff ¢/kWh	2019 Tariff ¢/kWh	Adjustment %
Basic Tariff	109.1	101.3	
Special Rent & Rates Rebate	-4.0	-2.3	
Net Basic Tariff	105.1	99.0	-5.8% -6.1 cents
Fuel Clause Charge	23.4	23.4	
Special Fuel Rebate	-16.0	-2.3	
Net Tariff	112.5	120.1	+6.8% +7.6 cents

Year End Balance (\$ billion)

-	Tariff Stabilisation Fund	0.33B	0.33B
	(Estimate)		
-	Fuel Clause Recovery	0.98B	0.61B
	Account (Estimate)		

In the event of discrepancies between the English and Chinese versions, the Chinese version shall prevail.

2. Rationale for tariff adjustment

	Rationales for tarif	f adjustment	Tariff impact (¢ / kWh)		
(1)	Basic Tariff				
(a)	Reduction of rate of permitted 8.00%.		-11.8		
(b)	Increase from estimated	Increase in Average Net Fixed Assets Increase from estimated billion in 2018 to estimated billion in 2019, the major			
	components include capi transmission & distribution projects and customer an development projects	projects, generation			
	Note: Average Net Fixed Ass the average, for that ye closing balances of Net				
(c)	Decrease in operating expense Decrease from estimated \$4.03 billion in 2016 (Refer item 3A)	-0.7			
(d)	The sales of electricity decrease billion kWh in 2018 to estimatin 2019. The major changes in tabled as follows:				
	Million kWh Estir Domestic 2,4 Commercial 7,7 Industrial 29 Total 10,5 Change Over Previous Year -1.5	mate Estimate 62 43 77 502	+0.8		

In the event of discrepancies between the English and Chinese versions, the Chinese version shall prevail.

	Rationales for tariff adjustment	Tariff impact (¢ / kWh)
(1)	Basic Tariff	
(e)	All others	
	Change in Tariff Stabilisation Fund balance, interest & SOC taxation, etc.	+1.9
	Sub-total (Basic Tariff):	-7.8
(2)	Special Rent & Rates Rebate	
	Return of rent & rates overcharged by Government (Decrease from 4.0 ¢/kWh to 2.3 ¢/kWh)	+1.7
	Sub-total (Special Rent & Rates Rebate):	+1.7

Notes on the confidential figures:

- (i) Forecast Average Net Fixed Assets (ANFA) values might reveal future 2019 profits. Any disclosure of confidential information may be detrimental to the interests of small shareholders and may also violate the Hong Kong Listing Rules requirements. Any person using confidential information or any "tipping" to others for dealings may also commit an offence under the Securities and Futures Ordinance.
- (ii) Disclosure of future sales growth might indicate to suppliers HEC's underlying demands which could increase their bargaining power in prices setting leading to higher prices to be borne by the Hong Kong citizens. This might also reveal HEC's future fixed assets investment as well as future profits. Any disclosure of confidential information may be detrimental to the interests of small shareholders and may also violate the Hong Kong Listing Rules requirements. Any person using confidential information or any "tipping" to others for dealings may also commit an offence under the Securities and Futures Ordinance.

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	Rationales for tariff adjustment	Tariff impact (¢ / kWh)
(3)	Fuel Clause Charge	
(a)	Expected increase in 2019 fuel price over 2018	
	Higher fuel clause chargeable per unit	+0.1
(b)	Fuel Cost Recovery Difference	
	(i.e. the total Fuel Clause Charge received minus "difference between Standard Fuel Cost and Actual Fuel Cost")	-0.1
	Sub-total (Fuel Clause Charge):	-
(4)	Special Fuel Rebate	
	Reduced from 16.0 ¢/kWh to 2.3 ¢/kWh	+13.7
	Sub-total (Special Fuel Rebate):	+13.7
	(1) + (2) + (3) + (4) Grand total:	+7.6

In the event of discrepancies between the English and Chinese versions, the Chinese version shall prevail.

Fuel consumed (Tera-joules)	<u>2018 (Estimate)</u>	<u>2019 (Estimate)</u>
 Coal 	77,552	
 Natural Gas 	32,173	
• Oil	487	
Total	110,212	

Average Fuel Price (HK\$ per GJ)	<u>2018 (Estimate)</u>	<u>2019 (Estimate)</u>
 Coal 	29.7	
 Natural Gas 	63.1	
• Oil	105.5	
Overall	40.0	

Total Fuel Cost (\$ million)	<u>2018 (Estimate)</u>	2019 (Estimate)
 Coal 	2,300	
 Natural Gas 	2,029	
• Oil	51	
Others	26	
Overall	4,406	

Actual Fuel Costs pass through to customers through the following 2 accounts:

Standard fuel costs (Include in basic tariff)	1,837	
Fuel Clause Recovery Account	2,569	
Overall	4,406	

Notes on the confidential figures:

Disclosure of fuel demand and price forecasts would materially disadvantage HEC in negotiations in setting price or volume delivery terms with fuel suppliers, resulting in higher prices and hence increase fuel clause charges to be borne by Hong Kong citizens.

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3. The detailed items of the operating expenses and the respective budget figures

Items for Non-Fuel Operating Expenses	Forecast Expense for 2018 (\$ million) Estimate	Forecast Expense for 2019 (\$ million) Estimate	% Change
Operating Expenses			
Employee expenses (1)	785.9		
Materials & Services (note a)	349.0	402.4	
Loan charges (2)	3.4		
Government Rent & Rates	262.3	275.4	
Contingency	55.0		
Stocks/FA Write-offs (note b)	83.5	100.3	
Provision for Decommissioning	315.3	172.5	
Depreciation	2,257.8	2,264.0	
(A) Sub-total for Operating Expenses & Depreciation:	4,112.2	4,032.9	-1.9%
Interest (2)	31.8		
Taxation (3)	535.0		
(B) Sub-total for Interest & Taxation:	566.8	646.0	
Total Non-fuel Operating Expenses:	4,679.0	4,678.9	-0.0%

Note

- a. Based on quotations from suppliers and contractors. If quotations are unavailable, expenses are based on inflation rates assumptions.
- b. Estimation based on usage conditions of fixed assets.

Notes to the confidential figures as highlighted:

- 1. HEC has a policy of pay for performance. As a result, staff salary adjustment rate will vary by individual. Disclosing such detail may create false expectation and jeopardize employee relations.
- 2. Disclosure of confidential funding information could materially affect HEC's borrowing costs, leading to increased costs to Hong Kong citizens.
- 3. Disclosure of information may enable calculation of interest.