

Regulatory Challenges and Economic Impacts of COVID-19

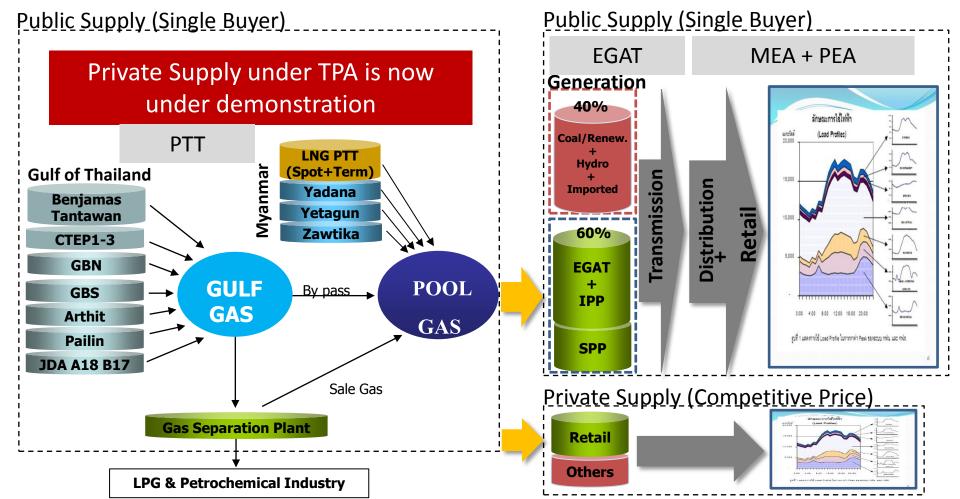
Mr. Khomgrich Tantravanich
Secretary General
The Office of Energy Regulatory Commission of Thailand

APER Video conference Friday, 14 August 2020

Topics to Be Covered

- 1) Thailand Electricity and Gas Supply Structure
- 2) Impact of COVID-19 Pandemic
- 3) Lessons Learned

1) Thailand Electricity and Gas Supply Structure



2) Impact of COVID-19 Pandemic **Major Impact of COVID-19 Pandemic** Fact 1) **Declare the State Emergency / Work from Home** 2) **Social Distancing Policy** 3) **Mobility restrictions -- No inter-province travelling / No tourists from abroad Less demand of oil and gas** 4) Conditions 1) Less electricity demand but still binding with PPA conditions 2) Over Supply of world LNG but less opportunity due to the Term-LNG 3) Lower LNG Price than piped gas but still struck with minimum take condition of piped gas

Prepare for uncertainty situations, such as fluctuation in demand/exchange rate

Actions

contract

Manage gas supply contract

Manage power generation mixed

Provide financial support for electricity users

4)

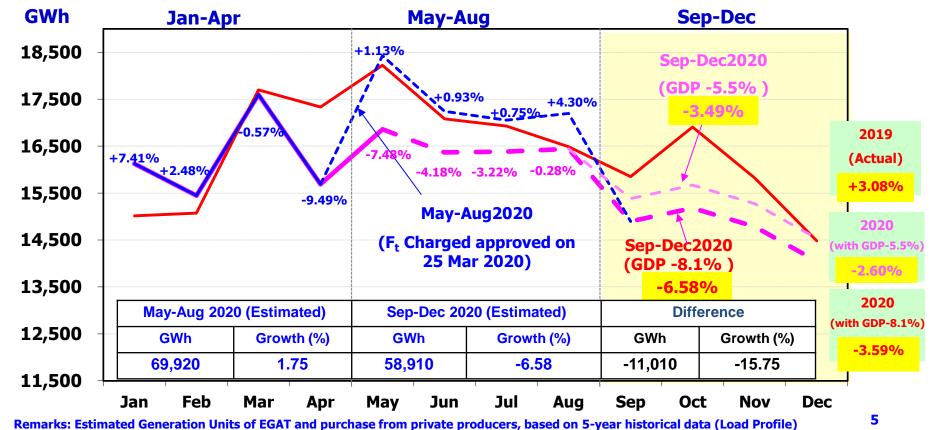
1)

2)

3)

2.1) Demand: Forecast vs Actual

Net Generation 2019-2020



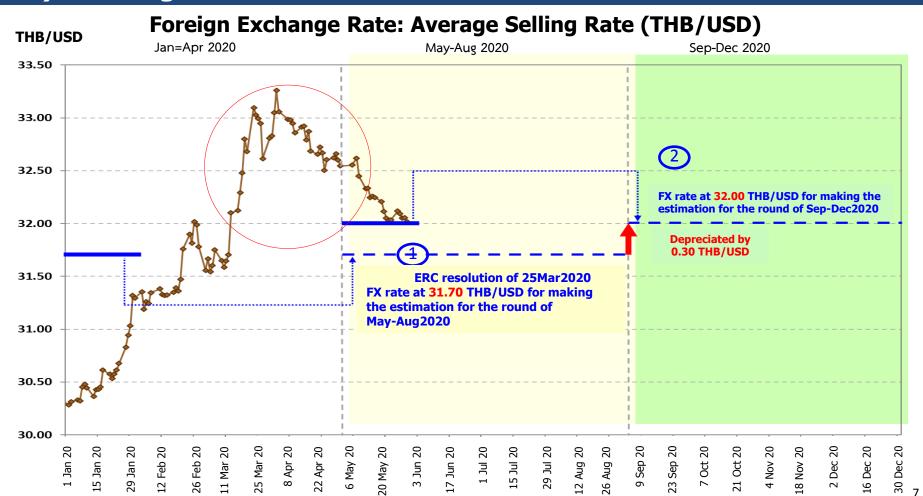
2.2) Prepare for Generation Mix in 2020

Estimated Generation Mix up to December 2020

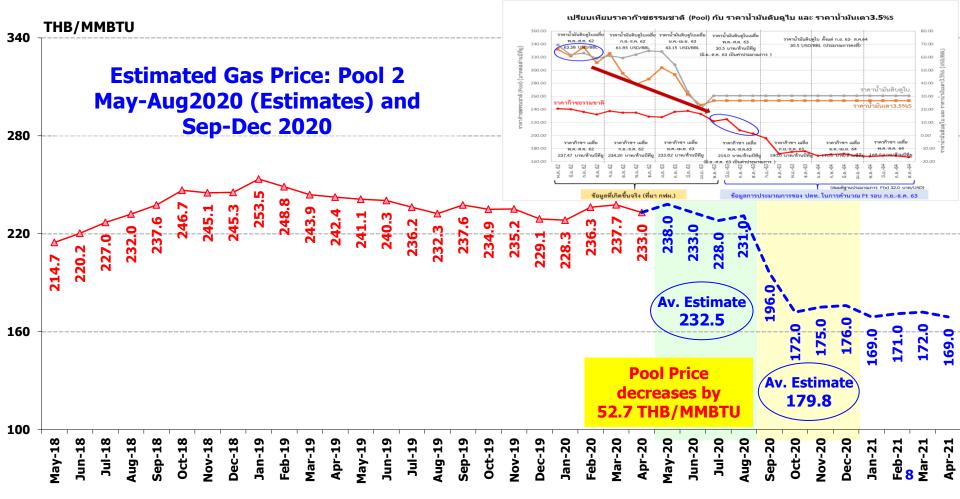
May-Aug 2020 (Estimates) and Sep-Dec 2020 (Estimates)

Fuel Type	May-Aug 2020 Estimates [1]		Sep-Dec 2020 Estimates [2]		Difference [2] – [1]	
	GWh	%	GWh	%	GWh	%
Hydro	1,582.18	2.26	1,518.01	2.58	-64.17	+0.31
Fuel Oil	15.96	0.02	45.60	0.08	29.64	+0.05
Lignite	5,588.75	7.99	5,516.40	9.36	-72.36	+1.37
Imported Coal	5,823.53	8.33	5,072.60	8.61	-750.93	+0.28
Natural Gas	40,790.54	58.34	30,118.01	51.12	-10,672.53	-7.21
Diesel	21.82	0.03	81.71	0.14	59.89	+0.11
Import from Laos	11,324.21	16.20	11,827.08	20.08	502.88	+3.88
- Hydro	7,730.67	11.06	8,379.09	14.22	648.41	+3.17
- Lignite	3,593.53	5.14	3,448.00	5.85	-145.53	+0.71
Malaysia	44.28	0.06	44.13	0.07	-0.15	+0.01
Others	4,728.32	6.76	4,686.43	7.96	-41.89	+1.19
Total	69,919.59	100.00	58,909.98	100.00	-11,009.61	-15.75

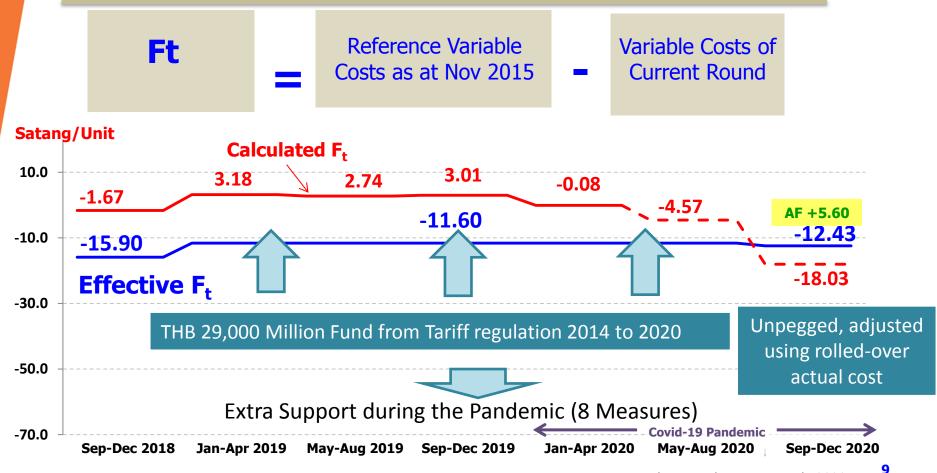
2.3) Exchange Rate



2.4) Pool Gas Price for 2020



2.5) Positive Effect on lower gas price



Preliminary data as at 1 July 2020

2.6) Extra Support during COVID-19 Pandemic (8 Measures)



8 Measures to mitigate impacts of COVID-19

- Reduce monthly electricity bills by 3% from net electricity cost (after VAT), for 3 months (Apr Jun 2020)
- Waive the Minimum Charge of electricity tariffs for 6 months (Apr-Sep 2020)
- 3 Subsidize electricity costs more than 23 million households nationwide
 - Reduce the variable electricity tariff (Ft) for collection in the billing round of Sep Dec 2020
 - Refund "Electricity Meter Deposits" to residential and small business customers, with refund payment starting Mar 2020 onwards
 - Implement projects (using the Power Development Fund) to resolve drought problems, to stimulate the economy, and to control and prevent the spread of COVID-19
 - Introduce the "Regulation Zero" measure to waive compliance with the specified timeframe for undertaking procedures at various stages, such as the timeframe of license renewal
 - ❖ Provide channels of OERC service provision during the COVID-19 crisis

3) Lessons Learned

- 1) Conditions during COVID-19 pandemic will expedite Thailand Gas Supply Deregulation.
- 2) Both electricity and gas users will be seeking more alternative sources of supply in order to obtain their best choice in the future.
- 3) Rigid PPA for electricity supply will be a hurdle to manage generation mix during crisis, flexible PPA conditions might be a better option.



-THANK YOU-

Mr. Khomgrich Tantravanich
Secretary General
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