

Inter RAO Group 1H2018 Consolidated Financial and Operating Results

15 August 2018



GENERATION IN THE RUSSIAN FEDERATION:

- Commissioning of 1790 MW of new and modernized power generation capacity under the Capacity Delivery Agreements (CDA);
- Commissioning of Kaliningradskaya Generation LLC (Talakhovskaya TPP and Mayakovskaya TPP);
- KOM's capacity prices increased on the wholesale market;
- Unfavorable pricing environment on the day-ahead market (DAM). Electricity price depreciation in the 1st pricing zone (by 2.1%) and an insignificant increase in the 2nd pricing zone (0.6% YoY increase in electricity prices);
- Heat tariffs across Russian assets of the Group increased on average 4.4% YoY; lower average air temperature in the regions where the stations are present YoY.

SUPPLY IN THE RUSSIAN FEDERATION:

- Electricity prices for end-users have increased on average due to the growth of regulated (grid tariff) and non-regulated components (CDA for TPP, Renewables, NPP, as well as supply margin increase for the balancing of tariffs in the Far-Eastern Federal District);
- Regional expansion and client base increase in guaranteed supply companies and independent supply companies;
- Active development of the paid services (PS) segment.

3

TRADING:

- Electricity export increased to Finland by 15% and import from Kazakhstan increased by 35% YoY;
- The increase in the price of the Nord Pool electricity exchange in Lithuania and Finland;
- Weakening of the Russian national currency against the currencies of major export power supply contracts: (decrease by 14.5% YoY against EUR).

4

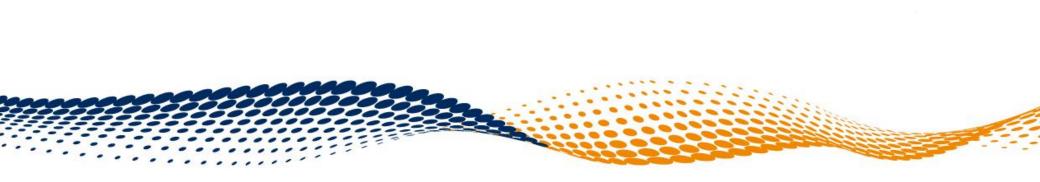
FOREIGN ASSETS:

- The increase in the price paid for the available electrical capacity of Trakya Elektrik,
- Increase in the average tariff for electricity sales of JSC Telasi;
- The resumption of direct electricity supplies to Moldova.



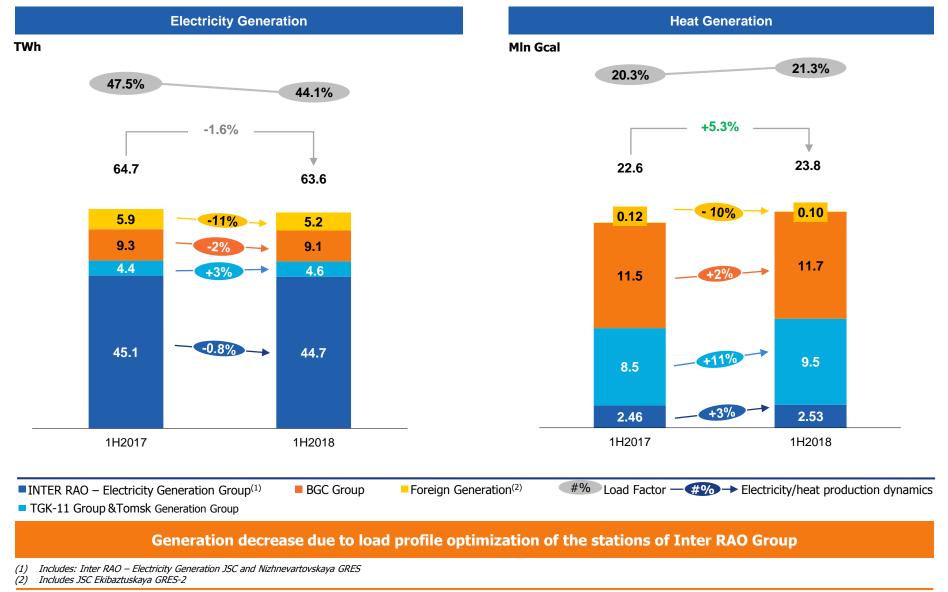


I. Operational Performance Results





Electricity and Heat Generation



Inter RAO Group 1H2018 Consolidated Financial and Operating Results



Trading Business*

 Export / Import Volumes

 TWh

 +2.2%

 10.7
 -0.6
 +0.8

 3.1
 Export
 Import
 4.0

 7.6
 7.0
 1H2017
 1H2018

Electricity Export Dynamics and Price Spread TWh €/MWh 4.5 35.0 30 4.0 30.0 26 3.5 25.0 27 26 3.0 20 18 20.0 17 2.5 2.0 19 15.0 16 1.5 14 1.5 10.0 .5 1.3 1.0 1 1 5.0 0.9 0.8 0.5 0.0 0.0 2Q2017 3Q 2017 4Q 2017 1Q2018 2Q2018

Export

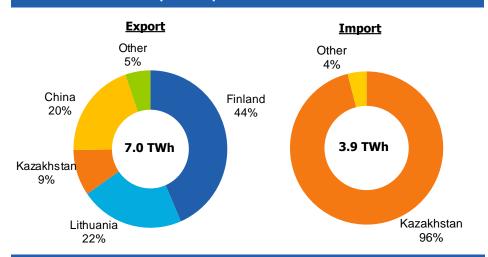
Import

Electricity price spread in Russia (Europe and Ural) and Finland (right axis)
 Electricity price spread in Russia (Europe and Ural) and Lithuania (right axis)

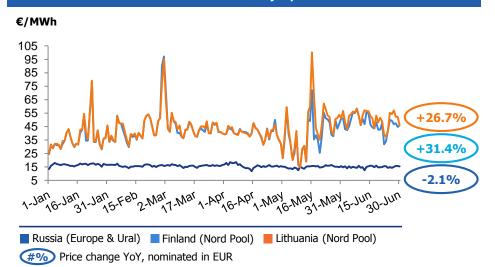
Electricity export to Finland (volume) Electricity export to Lithuania (volume)

* Data Includes JSC EEC

Export / Import Structure 1H2018

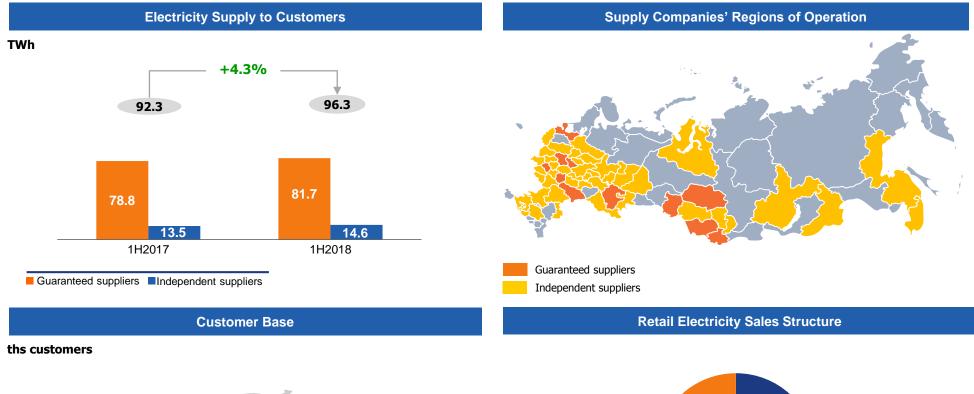


Evolution of Electricity Spot Prices

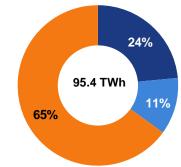




Supply Business





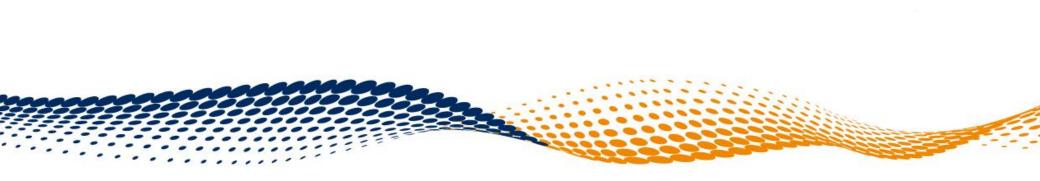


■ Households and equated groups of customers ■Loss compensation ■ Other customers



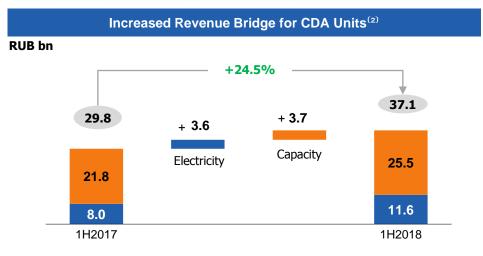


II. Increase in Operational Efficiency



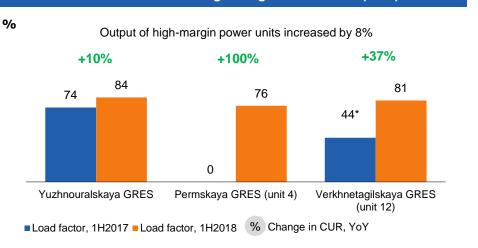


Increased Operational Efficiency in Electricity Generation⁽¹⁾

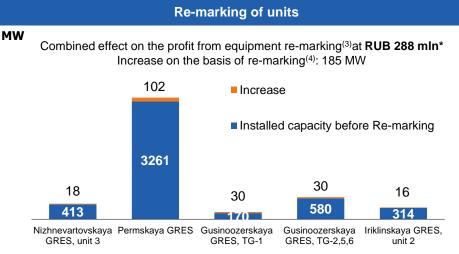


(1) Includes: Inter RAO – Electricity Generation JSC and Nizhnevartovskaya GRES (2)The slide illustrates revenue of CDA units, balanced by the sale and purchase of electricity and capacity

Efficient Load of New High-Margin Power Units (CDA)

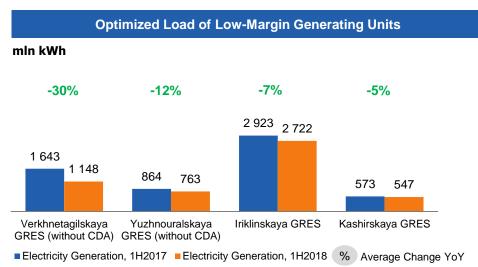


*Taking into account that the block was commissioned in June 2017



(3) From re-marking made in 2017 - 2018

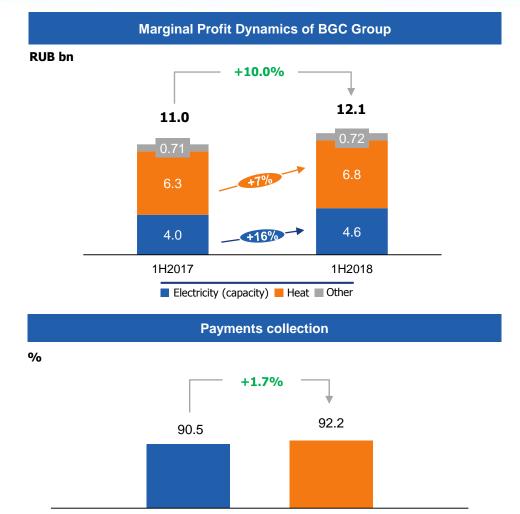
(4) Average amount of re-marked equipment volume in 1H2018



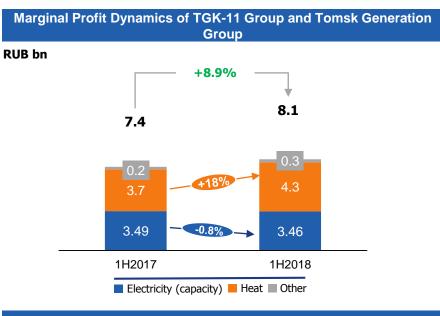
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Increased Operational Efficiency in Heat Generation

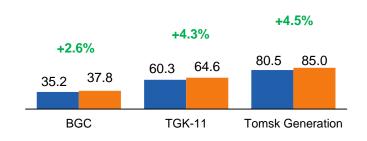


BGC Group, TGK-11 Group and Tomsk Generation Group



Share of electricity generation in cogeneration mode

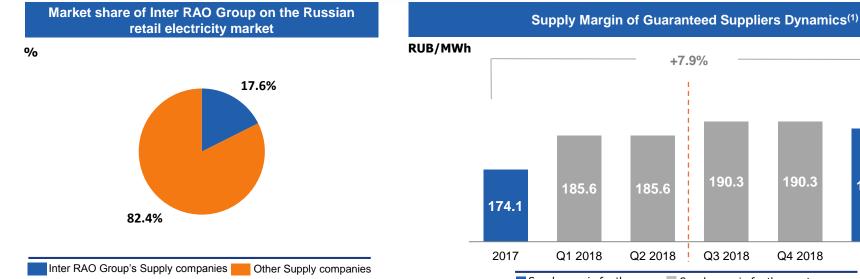
%



■1H2017 ■1H2018



Increased Operational Efficiency in Retail Business



Supply margin for the year 🛛 Supply margin for the quarter

(1) Based on weighted average of supply margins of the Group's guaranteed suppliers (not including Volga Supply Company)

Marginal profit from PS dynamics

RUB mln

+18.4%

34%

29%

1 163

982

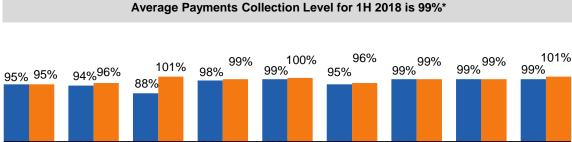
1H2017

1H2018

X EBITDA Margin %

Payments Collection of Guaranteed Suppliers

%



PSK Group

Altayenergo

sbyt

Saratov

energo

Tomsk

Supply

Company

MES

Group

Tambov

Supply

Company

187.9

2018

Bashkir

Supply

Company

Orel

Supply

Company

PSK including

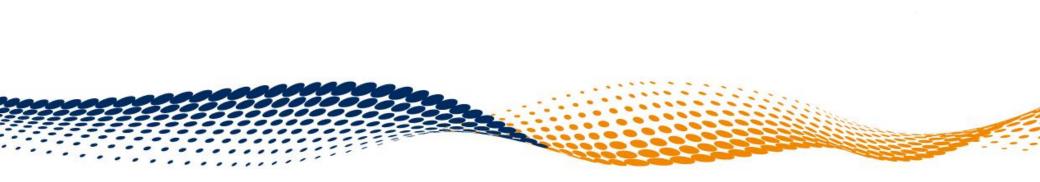
Omsk Region







III. IFRS Financial Results





Key Financials

RUB bn	1H2018	1H2017	Change
Revenue	460.7	413.8	11.3%
Operating expenses	422.4	388.0	8.9%
Operating profit	43.5	29.3	48.3%
EBITDA	59.4	48.1	23.5%
EBITDA margin	12.9%	11.6%	10.9%
Net profit	38.3	30.8	24.4%
CAPEX	13.8	12.3	11.7%
RUB bn	30.06.2018	31.12.2017	Change
Total assets	674.9	639.1	5.6%
Total equity	469.0	461.5	1.6%
Loans and borrowings ⁽¹⁾	12.7	16.2	-21.5%
Lease liabilities ⁽²⁾	35.6	12.7	2.8 times
Net debt ⁽³⁾	-132.6	-135.5	-

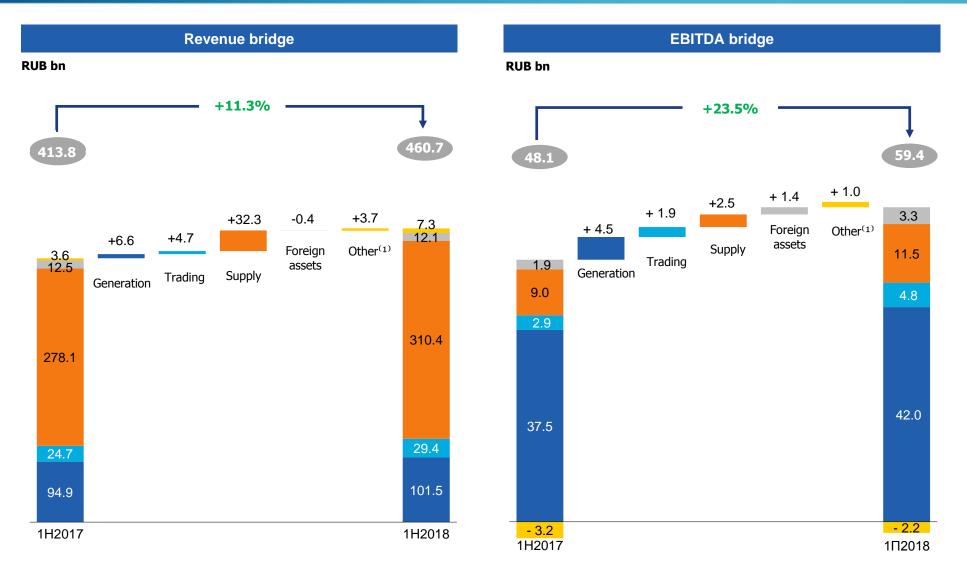
Please note:

-all relative percentage changes are shown in accordance with calculations in mln. RUB

- (1) Includes share in lease liabilities of joint ventures in amount of RUB 0.1bn as of 30.06.2018
- (2) Due to IFRS 16 "Lease" standard in statement of financial position as of 31.12.2017 we recognize lease liabilities in amount of RUB 12.3 bn. Total lease liabilities figure including share in lease liabilities of joint ventures amounted to RUB 12.7 bn.
- (3) Includes cash deposits (3-12 months) in amount of RUB 24.6 bn as of 30.06.2018 (as of 31.12.2017 RUB 22.3 bn) and lease liabilities (including share in lease liabilities of joint ventures in amount of RUB 0.1bn) in amount of RUB 35.6 bn as of 30.06.2018 (as of 31.12.2017 RUB 12.7 bn)



Evolution of key financials



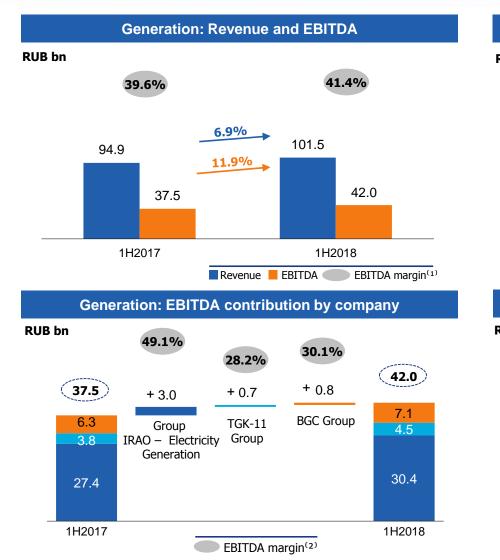
Please note:

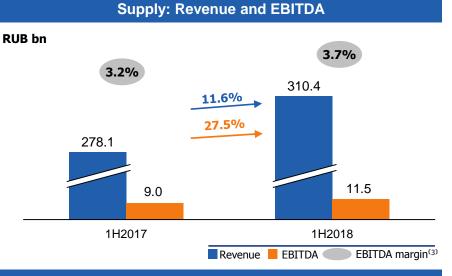
Generation includes financial results from the Electricity Generation and Heat Generation segments

(1) Includes the segments Engineering and Corporate Centre

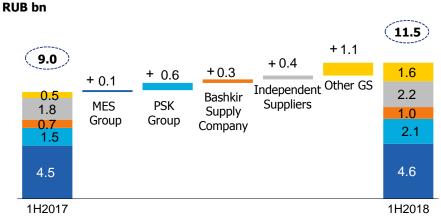


Generation and Supply





Supply: EBITDA contribution by company



(1) EBITDA margin calculation excludes inter-segment revenue (RUB 26.7 bn in 1H 2017 and RUB 28.7 bn in 1H 2018)

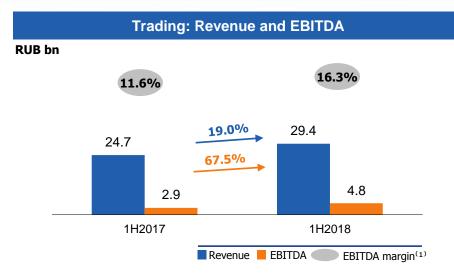
(2) EBITDA margin calculation excludes inter-segment revenue for 1Q 2018 (Inter RAO – Electricity Generation – RUB 20.9 bn, TGK-11 Group – RUB 2.1 bn., BGC Group – RUB 5.7 bn)

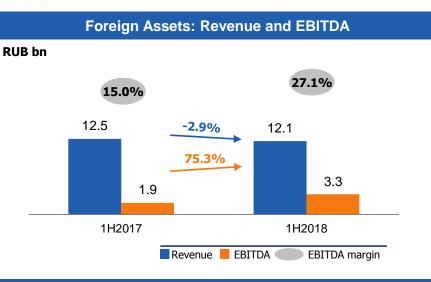
(3) EBITDA margin calculation excludes inter-segment revenue (RUB 0.8 bn in 1H 2017 and RUB 0.8 bn in 1H 2018)

Inter RAO Group 1H2018 Consolidated Financial and Operating Results

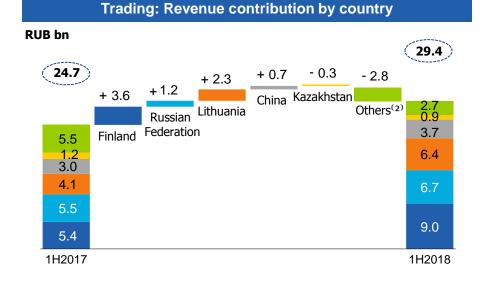


Trading and Foreign Assets

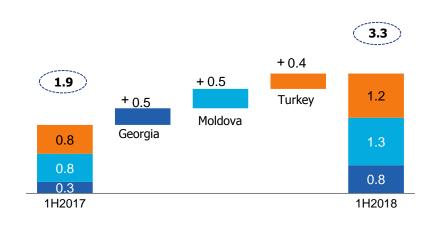




Foreign Assets: EBITDA contribution by country



RUB bn



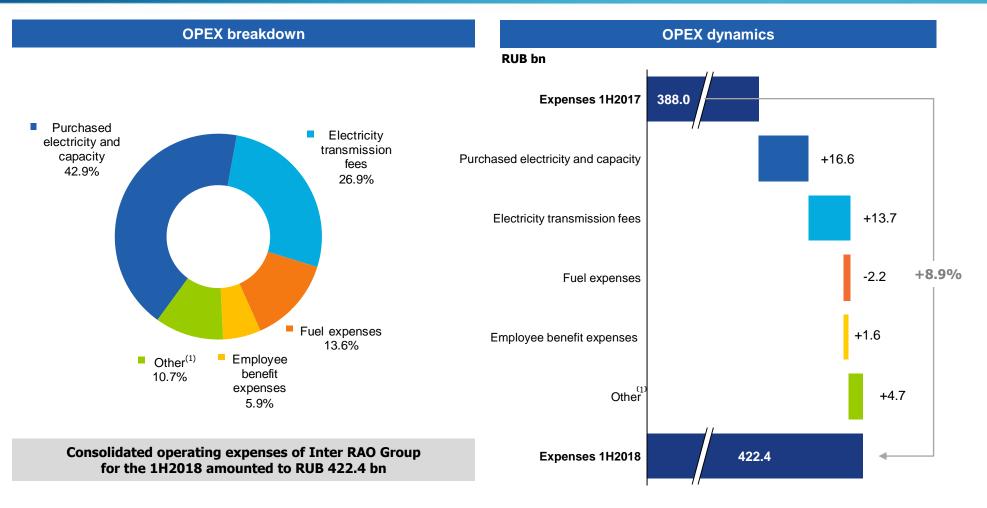
(1) EBITDA margin calculation excludes inter-segment revenue (RUB 1.1 bn in 1H 2017 and RUB 1.3 bn in 1H 2018)

(2) Belorussia, Georgia, South Osetia, Azerbaijan, Mongolia, Norway, Latvia, Estonia, Ukraine and Poland

Inter RAO Group 1H2018 Consolidated Financial and Operating Results



Consolidated Operating Expenses



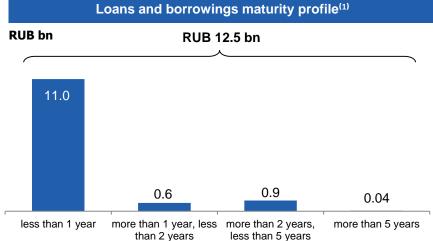
Consolidated revenue growth of Inter RAO Group for 1H 2018 (+11.3% YoY) exceeds the growth of consolidated operating expenses (+8.9% YoY)

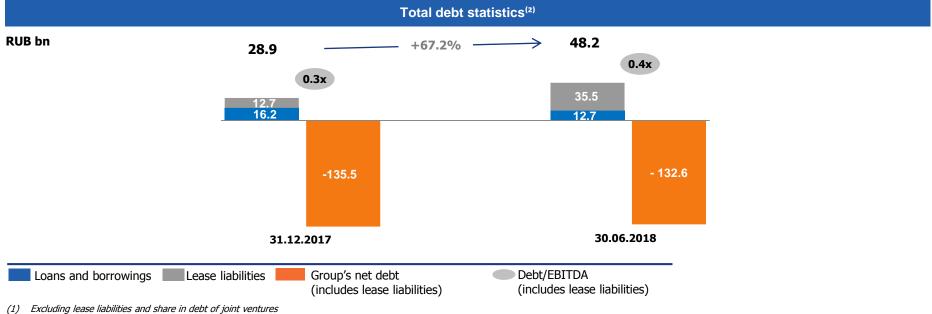
(1) Other expenses include depreciation and amortization, provision for impairment of accounts receivables, construction contracts expenses and other operating expenses



Debt and Liquidity Analysis

Loans and borrowings composition⁽¹⁾ **By maturity By percentage rate** By currency GEL JPY Long-term EUR 7.3% 3.4% 12.5% Floating 5.1% 30.5% USD 25.4% RUB 58.8% Fixed Short-term 69.5% 87.5%





(2) Includes debt and lease liabilities in joint ventures as of 30.06.2018 in amount of RUB 0.1 bn and RUB 0.4 bn respectively (lease liabilities of joint ventures as of 31.12.2017 – RUB 0.4 bn) and cash deposits (3-12 months)





IV. Regulatory Transition to Supply Benchmark Model





Regulatory Transition to the Supply Bench Mark Model

Goals and objectives

- Defining clear and "transparent" procedures for setting tariffs;
- Increase the operating results of regulated organizations;
- Increase of investment attractiveness due to long-term use of methods of tariff regulation;
- Development of competition in the energy sales sector based on the application of best practices of the functioning of guaranteeing suppliers in the Russian Federation, their differentiation by the region of operation scale.

Key Features

- Supply margin is established not in the form of a formula but rather in rubles per kWh;
- A phased transition to the benchmark revenue (required gross revenue) within 2-3 years;
- Supply margin is differentiated by groups of consumers, regions and groups of scale, depending on the number of delivery points;
- Supply benchmark expenses are reviewed no more than once in every 3 years.

The components of Benchmark Revenue (Required Gross Revenue)⁽¹⁾:

Constant components of supply benchmark expenses:

- Iabor compensation, maintenance of premises,
- printing and delivery of invoices
- call center and Internet services,
- collection of meter readings
- acceptance of payment without commission.

Variable components of expenses:

- Provision for doubtful debts 1.5% of total revenue,
- % on loans base rate + 4%.
- Uncontrolled costs (depreciation, taxes, capital investment from investments, measures of the investment program);
- Profit 1.5% of revenue without transmission services

Constant components of the supply benchmark expenses were established by the Federal Antimonopoly Service (FAS) for 3 years. They are differentiated by groups of consumers, regions and groups of scale, depending on the number of delivery points

From 1st July 2018, Supply margins of Guaranteed suppliers will be established by the comparing analogues method in which the benchmark revenue (required gross revenue) is formed on the basis of the benchmark costs (previously regulated by the "cost +"method)

1) Decree of the Government of the Russian Federation of July 21, 2017 No. 863 Federal Antimonopoly order from 21.11.2017 r. № 1554/17

Inter RAO Group 1H2018 Consolidated Financial and Operating Results



New Tariff Setting Method for Heat Supply



RUSSIAN

FEDERAL LAW July 29, 2017 № 279-FL

Changes to the Federal law "Heat supply" and other legislative acts of the Russian Federation on improving the system of Heat supply

The following law has been taken into effect since August 2017

Key Feautures

- New Tariff Setting Method for Heat Supply;
- Creation of pricing zones with the maximum price capped by the level of the alternative heat boiler benchmark;
- New responsibilities of the Unified Heat Supply Organizations.

Features of the new heat supply system

- Tariff setting the final price for heat energy is capped by the level of the alternative heat boiler benchmark.
- Price level of the alternative heat boiler benchmark the estimated cost of replacing heat energy from the centralized source
- If the price of the Alternative Heat Boiler benchmark is lower than the current tariff, the final price paid by the consumer does not change until it reaches the price level of the Alternative Heat Boiler benchmark
- If the price of the Alternative Heat Boiler benchmark is higher than the current tariff, there will be a gradual increase of the tariff to the level of alternative heat boiler benchmark within 5 years
- New responsibilities of the Unified Heat Supply Organizations
 - Formation and regular updating of the heat supply scheme
 - Ensuring the implementation of investment measures prescribed in the heat supply scheme
 - The pre-emptive right to conclude concession agreements without a tender within the scope of the zone of activity
- Decision to switch to a new model is voluntary and individual for each municipality. The decision is
 made by the Government of the Russian Federation with the consent of the Governor of the region
 on the basis of an application from the municipality and the Unified Heat Supply Organizations

Federal antimonopoly service will have control function over heat price formation in order to prevent Unified Heat Supply Organizations from manipulating their dominant position





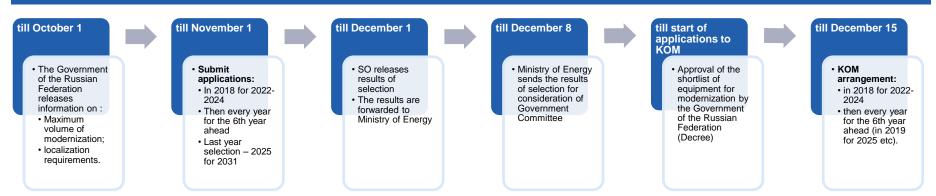
V. Modernization of Generation Equipment



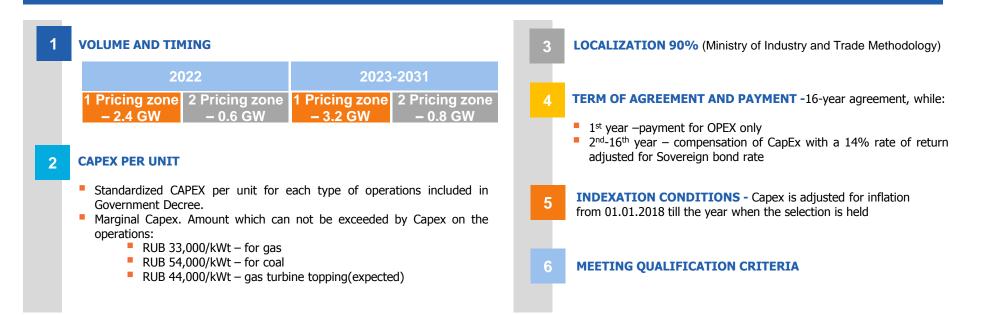


Stages and Parameters of Modernization

Stages of Modernization

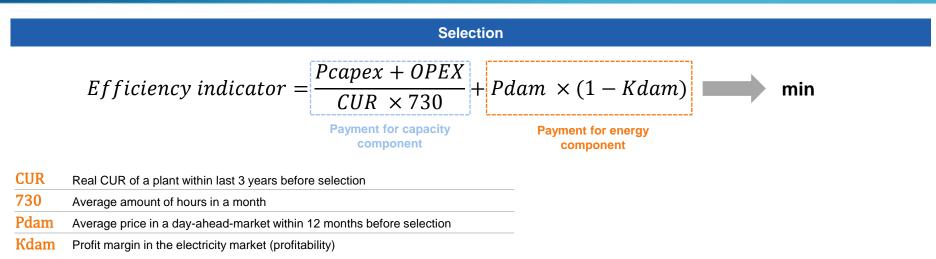


Parameters of Modernization





Selection Process and Capacity Payments



Competition parameters

Capacity payments

Pcapacity $1_{year} = OPEX$

- Capex. The lower the more competitive
- Operating costs. the lower the more competitive
- Profit margin in the electricity market (Kdam). The more you profit you can give from electricity market – the more competitive. Within selection a generating company takes the responsibility for CUR and profit margin in the electricity market.

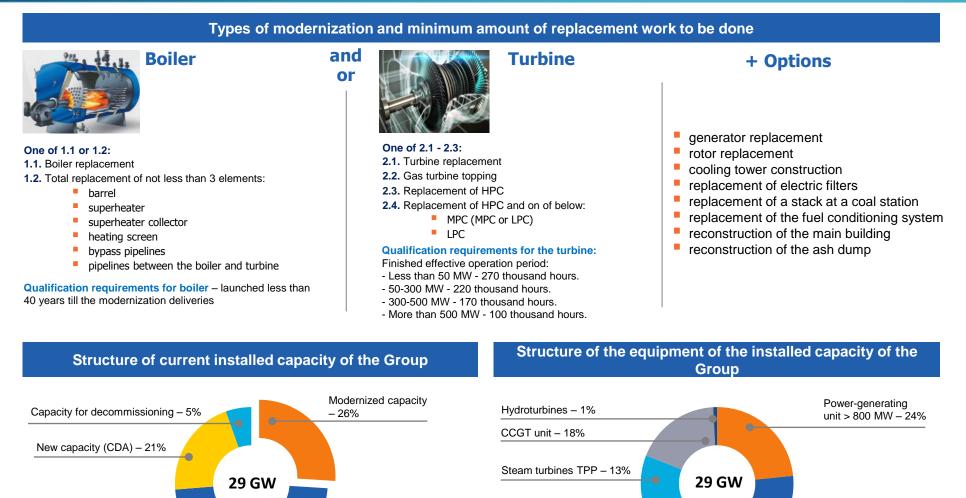
 $\begin{array}{l} \textit{Pcapacity 2_16}_{\textit{year}} = (\textit{CAPEX} + \textit{Rate of Return}) + \textit{OPEX} + \\ \textit{Taxes} - \textit{Pdam} \times \textit{Kdam} \times \textit{CUR} \times \textit{H} \end{array}$

CAPEX +	Annual return on investments based on the application with a rate of return = 14%
Rate of Return	adjusted for the rate of Sovereign Bonds over the period of 15 years
OPEX	Payment based on the application adjusted with a rate of (CPI-0.1 p.p.)
Taxes	Payment includes refunds on income tax and property tax
Pdam	Average DAM price in a month of delivery to delivery points of the plant
Kdam	Kdam stated within the selection process
CUR	CUR stated within the selection process
Н	Amount of hours in a month of delivery

SELECTION IS DONE WITH A SINGLE-COMPONENT PRICE, WHICH INCLUDES PAYMENT IN THE CAPACITY MARKET AS WELL AS IN THE ELECTRICITY MARKET



Types of Modernization of Generating Equipment



Power-generating unit 300 MWt – 29%

EQUIPMENT OF INTER RAO THAT IS PLANNED TO BE MODERNIZED MEETS QUALIFICATION CRITERIA

Power-generating unit

200 MWt and less – 15%

Other operating

capacity - 48%





V. Q&A

