

# **MOSENERGO**

9M 2018 IFRS Results



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# MOSENERGO Operational and Financial Highlights Key Factors

#### **External Events:**

- 1. Growing weighted average electricity price by 3.5% in the reporting period year-on-year.
- 2. Lower air temperature in 1Q 2018 resulting in heat output growth by 2.5% in 9M 2018. Weather factor also leaded to certain decrease in demand for heat for hot water supply in 3Q 2018.
- 3. Elaboration of legislation, regulating outtake of thermal power plants for modernization.

#### **Internal Events:**

- 1. Lower fuel rate on electricity (234.9 g/kWh) on the account of load optimization and partial removal of technical restrictions for capacity.
- 2. Permission was obtained from Ministry of Energy to decommission inefficient capacity at GRES-3 and CHP-17.
- 3. Actions were taken in order to switch heat loads from boiler houses to CHPs.
- 4. CSA expiry on 01.07.2018 for two CSA units: at CHP-27 for 450 MW and at CHP-21 for 425 MW.



### Operational Highlights<sup>1</sup>

	9M 2017	9M 2018	Change
Electricity Output, mn kWh	40,970	40,694	-0.7%
Electricity Sales, mn kWh	42,594	42,091	-1.2%
Heat Output, th.Gcal	51,914	53,218	+2.5%
Fuel Rate on Electricity, g/kWh	235.2	234.9	-0.1%
Fuel Rate on Heat, kg/Gcal	164.1	163.7	-0.2%

<sup>&</sup>lt;sup>1</sup> Management report data <sup>2</sup> Excluding Depreciation of PP&E

### Financial Highlights, mn RUR

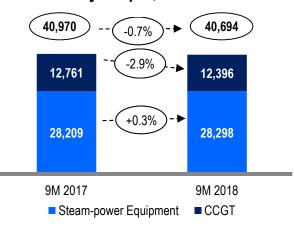
	9M 2017	9M 2018	Change
Revenue (Electricity and Heat)	99,280	102, 637	+3.4%
Variable Costs	(84,141)	(86,296)	+2.6%
Marginal Profit	15,139	16,341	+7.9%
Revenue (Capacity)	34,135	31,623	-7.4%
Revenue (Other)	1,930	1,728	-10.5%
Fixed Costs <sup>2</sup>	(19,088)	(20,241)	+6.0%
EBITDA <sup>3</sup>	32,116	29,451	-8.3%
Depreciation of PP&E	(11,238)	(11,142)	-0.9%
Operating Profit	19,478	17,019	-12.6%
Profit for the Period	16,820	14,045	-16.5%

<sup>&</sup>lt;sup>3</sup> Adjusted to net charge for impairment and other provisions

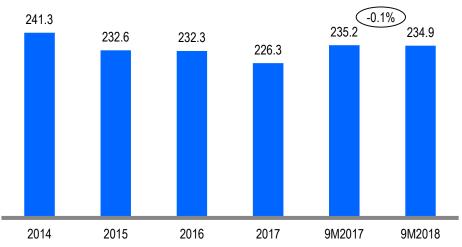


## 9M 2018 Operational Highlights

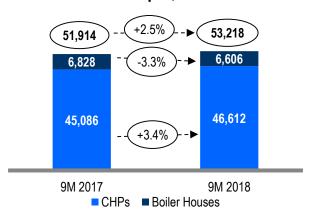
#### **Electricity Output, mn kWh**



#### Fuel Rate on Electricity, g/kWh



#### Heat Output, thous. Gcal

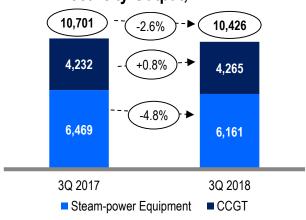


- Marginal decrease in electricity production. In spite of efficient load of steam-power equipment in cogeneration cycle, the decrease in production was influenced by lower CCGT-units production, resulting from growing repair volume.
- Heat output grew on the account of lower temperature in 1Q 2018. Average air temperature in the heating season amounted to -2,7°C (-1,5°C year-onyear).
- Heat output at boiler houses decreased on the back of load switch to CHPs.
- Fuel rate decrease resulted from growing electricity production in cogeneration cycle and optimization of the equipment set.

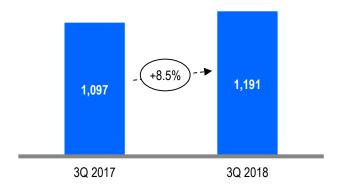


## 3Q 2018 Key Highlights

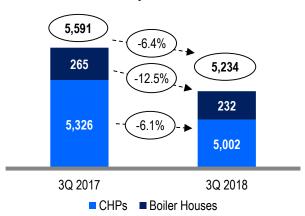
#### **Electricity Output, mn kWh**



#### Marginal Profit, mn RUR



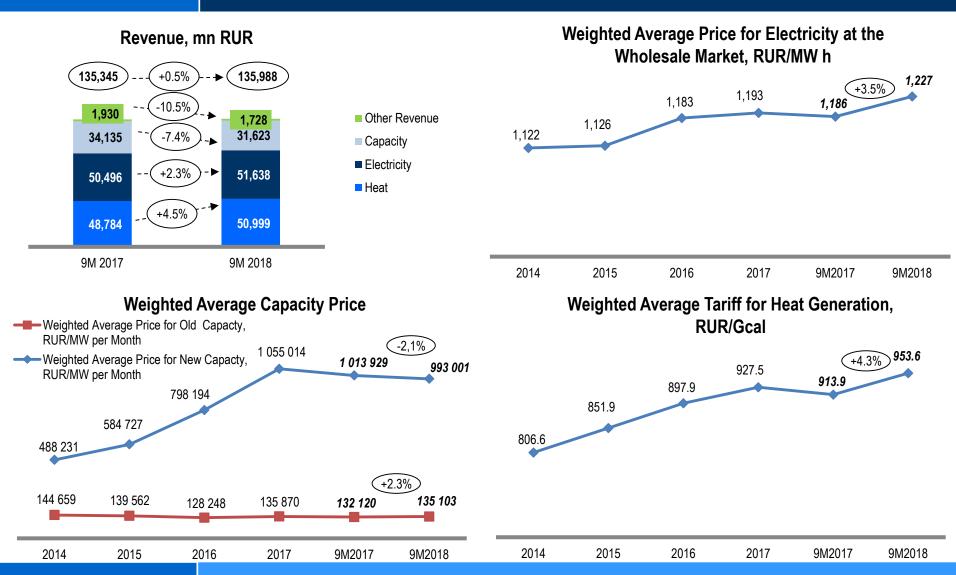
#### **Heat Output, thous. Gcal**



- Electricity production at CCGT-units grew marginally year-on-year, while steam-power equipment production decreased by 4.8% on the account of load optimization and minimization of inefficient equipment load.
- · Lower heat output resulted from weather factor.
- Heat output at boiler houses was decreasing faster, among other factors, dew to load switch to CHPs.
- Marginal profit grew by 8.5% on the account of work regime optimization.

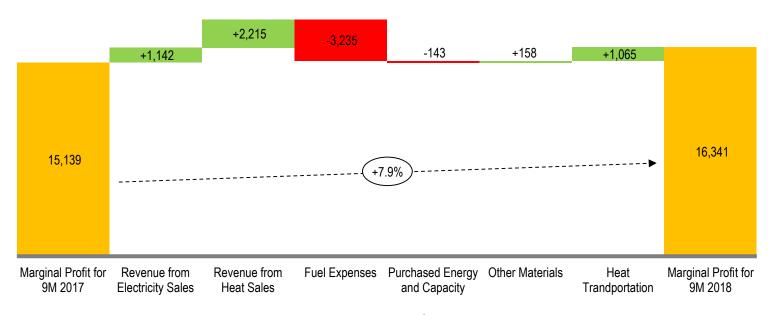


## Revenue





## Marginal Profit

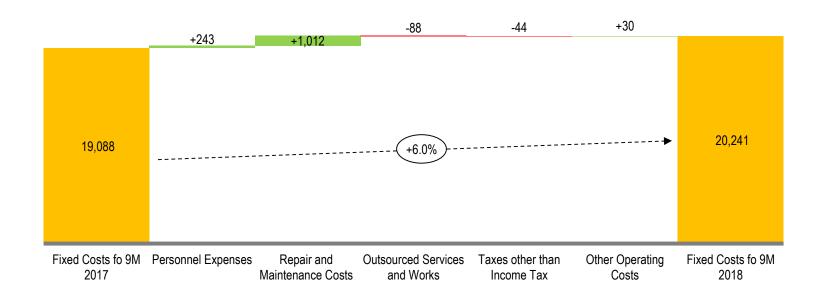


#### **Marginal Profit Factors**

- Increased revenue from electricity sales on the back of growing weighted average price at the wholesale market by 3.5%.
- Growing revenue from heat sales on the back of output growing by 2.5% (colder 1Q 2018).
- Fuel expenses growth, in spite of lower fuel rate, took place on the account of heat output and average fuel price growth.
- Lower heat transportation costs resulted from less heat output, subject to transportation (via heating grid), on the back of increased share of heat output from power plants collectors (boiler houses).
- Optimization of generating equipment set and minimization of inefficient equipment output between heating seasons.



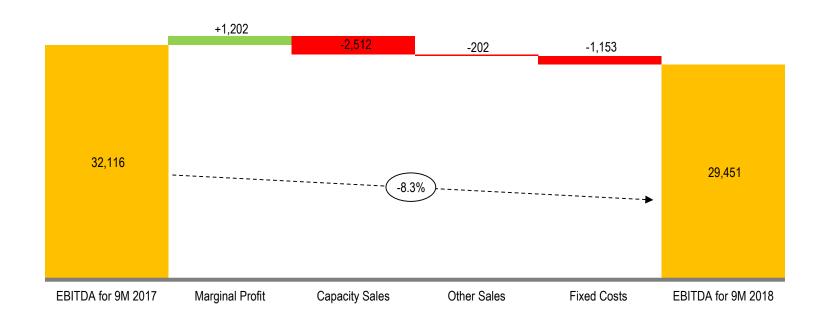
## **Fixed Costs**



### **Fixed Costs Changer Factors**

• Repair and maintenance costs grew mainly on the account of growing maintenance costs for CCGT units under service contracts.

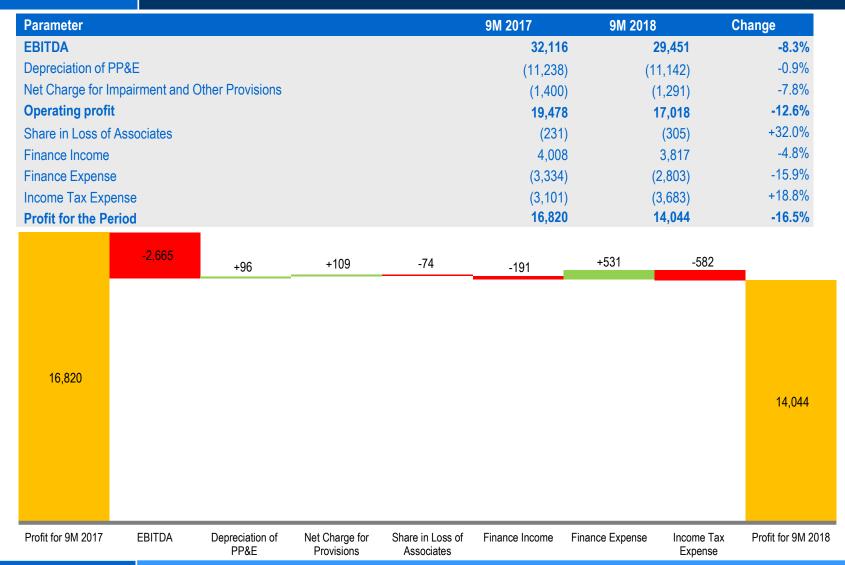




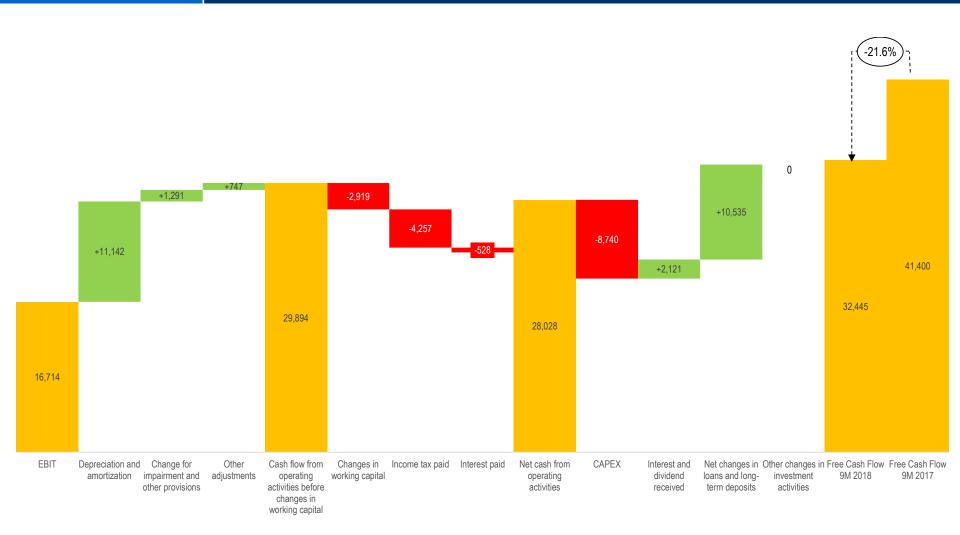
Adjusted to net charge for impairment and other provisions



## **Profit Composition**



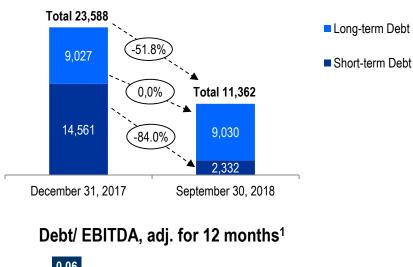


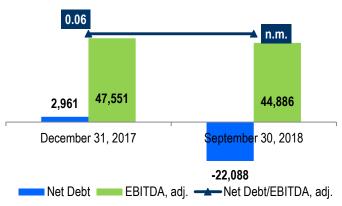




## Debt

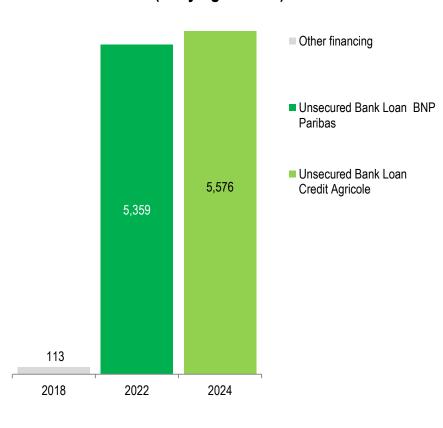
#### Debt Structure, mn RUR





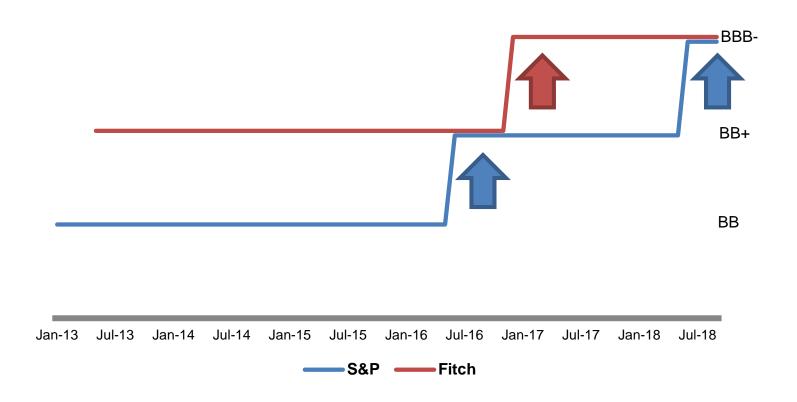
<sup>&</sup>lt;sup>1</sup> EBITDA, adj for 12 months ended 30.09.2018 = EBITDA, adj for 12 months ended 31.12.2017 - EBITDA, adj for 9M 2017 + EBITDA, adj for 9M 2018

# Maturity Profile as of September 30, 2018, mn RUR (carrying amount)<sup>2</sup>



<sup>&</sup>lt;sup>2</sup> Not including debt for interest payable of 112 mn RUR and finance lease liabilities of 202 mn RUR







## MOSENERGO Growth Drivers

#### Modernization under CSA'

Requirements for modernization identified as 2.7 GW:

- Modernization with prolonged resource for old efficient equipment 2.1 GW
- Modernization in order to upgrade technical and economic parameters and thermal power of turbines with exhausted resource in areas with heat deficit – 0.6 GW

#### **Operational Effectiveness Growth**

- Finalization of inefficient capacity decommissioning program (GRES-3 and CHP-17, 90 atm units at CHP-16 and 90 atm units at CHP-20)
- First production unit commissioning of the most powerful Russian cogeneration turbine 295 MW at CHP-22 (unit 9)
- Increase of payable capacity of CCGT units, increase of period between services and operational lifetime
- Realization of a program in order to upgrade primary technical and economic parameters
- Termination of coal usage at CHP-22
- Optimization of chemical water treatment at CHP-21, CHP-23 and CHP-25

### **Business Expansion**

- Finalization of MOEK boiler houses switch to Mosenergo sources within Old Moscow borders
- Actions in order to boost heat sales on the account of new territories, perspective real estate development areas



# **Thank You for Your Attention!**

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