

### **INVESTMENT PROGRAM: PLATFORM FOR VALUE CREATION IN A NEW MARKET ENVIRONMENT**

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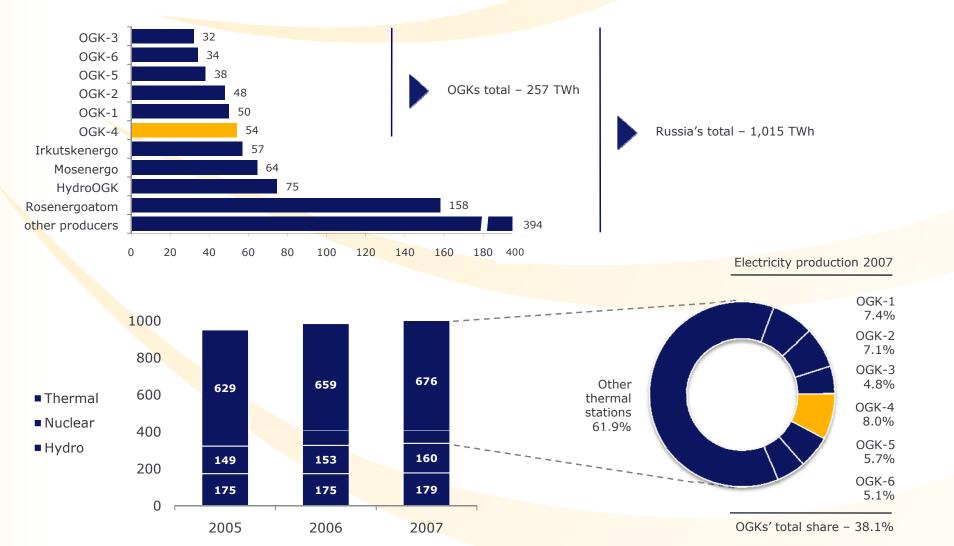
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## **OGK-4 POSITION IN THE INDUSTRY**

#### **ELECTRICITY PRODUCTION BY RUSSIAN COMPANIES, 2007**



971

816

716

Robust asset portfolio and flexibility in varying fuel mix with a view to further commodity price volatility

Competitive edges due to advantadeous asset location in terms of fuel supply and electricity sales

OGK-3 OGK-6 OGK-5 OGK-1 OGK-2 OGK-4

 Substantial opportunities for organic growth on attractive markets + industry liberalization

0

580

576

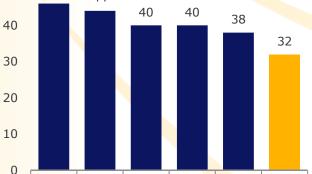
OGK-6 OGK-1 OGK-2 OGK-5 OGK-3 OGK-4 Source: RTS data as of 31.12.07; companies' data

44

K-4

50

fixed costs



OGK-5 OGK-1 OGK-6 OGK-3 OGK-2 OGK-4

Source: companies' data

- Among the most modern facilities Strong market positions due to on the market with relatively low operational efficiency and thanks to elaborated market strategies
- Higher evaluation by equity market reflects fundamental value of the Company and its opportunities

**PACING THE OGKs PELOTON** 

60

45

30

15

- Average age of assets, years
- Electricity sales, TWh

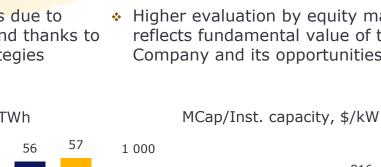
36

34

Source: companies' data

30

48



750

500

250

372

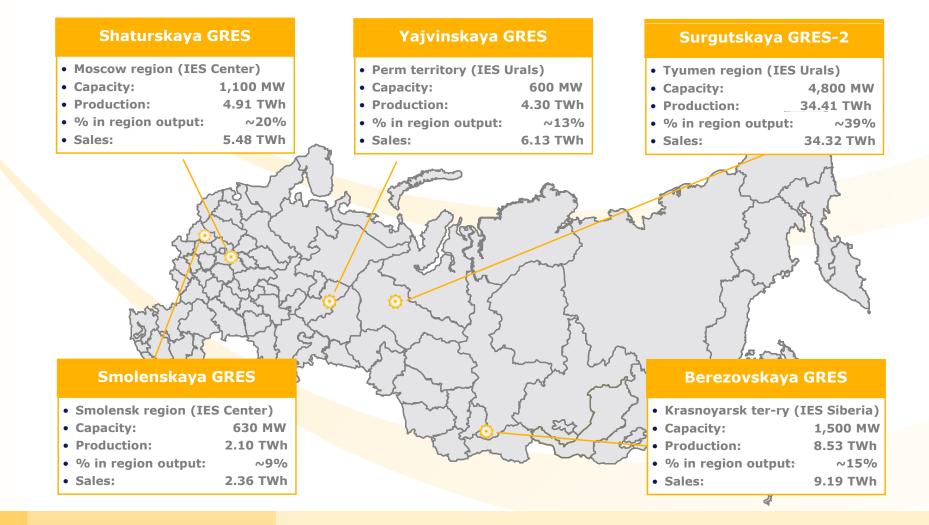


# **COMPANY OVERVIEW 2007**

- ♦ 3.9% of Russia's total capacity
- ✤ 5.7% of Russia's fossil-fired capacity
- ✤ 54.24 TWh of electricity output

✤ 5.3% of Russia's total output

- ♦ 8.0% of Russia's fossil-fired output
- ✤ 57.47 TWh of electricity sales





## **FUNDAMENTAL VALUES**

Four bricks forming a stepping stone for further development

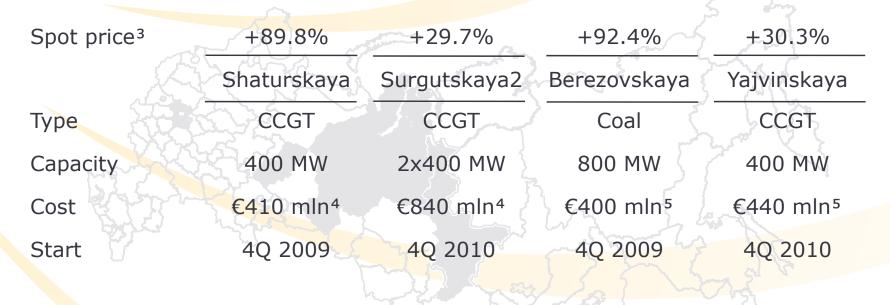
ASSET PORTFOLIO	MARKET POSITIONING	INVESTMENT PROGRAM	CORPORATE GOVERNANCE
✤ Operational efficiency	<ul> <li>Strong positions on the growing markets</li> </ul>	<ul> <li>Market-driven</li> <li>new build projects</li> </ul>	<ul> <li>Best practice commitments</li> </ul>
<ul> <li>Advantageous</li> <li>locations in</li> <li>proximity to fuel</li> <li>sources</li> </ul>	<ul> <li>Advanced trading strategies</li> </ul>	<ul> <li>Financing sources for organic growth</li> </ul>	✤ Informational transparency

SOLID PLATFORM FOR IMPROVING OPERATIONAL AND FINANCIAL PERFORMANCE GIVEN DEREGULATED MARKET ENVIRONMENT



## MID-TERM STRATEGIC FOCUS ON ORGANIC GROWTH

 Electricity consumption growth and soaring spot prices allow making positive views on planned investment projects



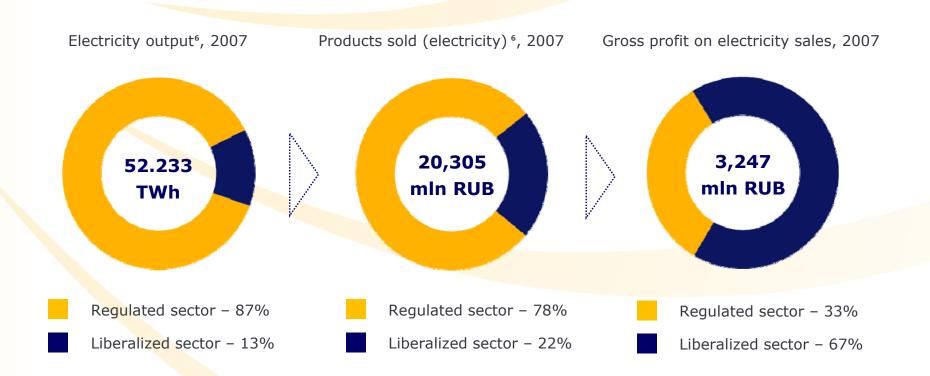
- In regions with existing or 
   New and efficient facilities expected deficit
   enhance competitiveness
- New electricity/capacity to be sold 
   All new build contracts on the EPC (turnkey) basis

<sup>4</sup> expected cost in forecasted prices basing on signed EPC contracts; does not include possible payments for grid connection and other expenses related to new capacity supply to the grid

<sup>5</sup> expected cost in forecasted prices; may significantly vary from EPC contracts; does not include possible payments for grid connection and other expenses related to new capacity supply to the grid

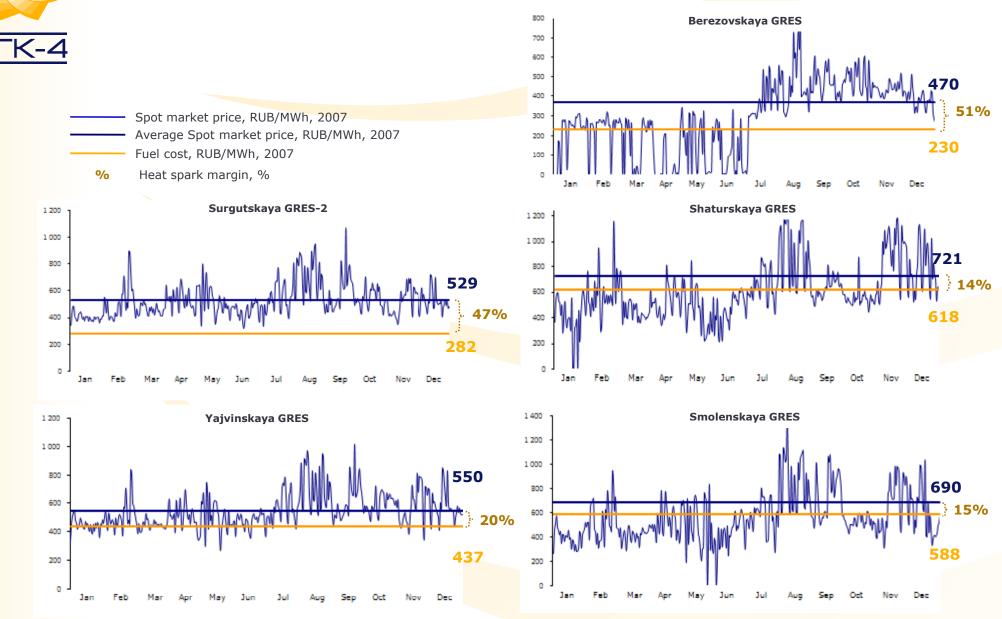


### **RESULTS IN FREE SEGMENT STIMULATE FURTHER DEVELOPMENT**



@ 2008, OAO OGK-4

### MARKET AND EFFICIENT FACILITIES REVEAL NEW OPPORTUNITIES





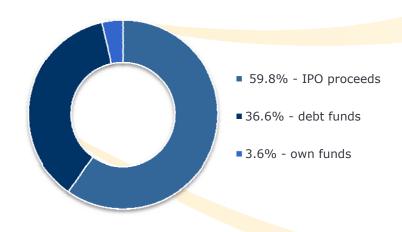
### NEW BUILT ALLOW MAKING POSITIVE EXPECTATIONS FOR 2011 AND BEYOND

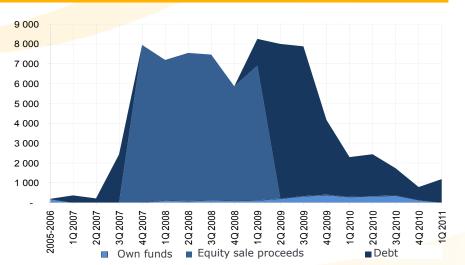
Inst	talled capacit	y	Fuel	Price formation	Impact of network limitations on the load factor (subject to completion of the investment programme by FSK)	Competitive position
Shaturskaya 1,500	Existing	1100	Gas Coal	Gas generation of "old" plants in IES	Load possibilities not limited	Medium
	New	400	Gas	Centre		Strong
Surgutskaya-2 5,600	Existing	4800		Gas generation of		Strong
	New	800	Gas	"old" plants in IES Urals	increase as the connection Tyumen – Urals strengthens	Strong
Yaivinskaya 1,000	Fristing	600	Coal			Strong
	LAISting	000	coar	"old" plants in IES	increase as the connection Perm – Urals	Strong
	New	400	Gas			Strong
630	Existing Capacity	630	Coal		increase as the connection Smolensk –	Medium
Berezovskaya 2,300	Existing	1500		Coal-fired units in		Strong
	New	800	Coal	Krasnoyarsk and Kuzbass energy systems	betwen Sibir and Europe improves	Strong
	1,500 5,600 1,000 630	Existing 1,500 New 5,600 New 1,000 1,000 New 630 Existing Capacity Existing 2,300	1,500 New 400 5,600 New 800 1,000 Existing 600 400 600 600 600 600 600 600	LineExisting1100Gas Coal1,500New400GasNew400Gas5,600Existing4800New800Gas1,000Existing600Coal1,000New400Gas630Existing Capacity630Coal2,300Existing1500	Existing1100Gas CoalGas generation of "old" plants in IES CentreNew400GasGas generation of "old" plants in IES Centre5,600Existing4800 BasGas generation of "old" plants in IES Urals1,000Existing600Coal BasGas generation of "old" plants in IES Urals1,000Existing600Coal BasGas generation of "old" plants in IES Urals630Existing Capacity630Coal CoalGas generation of "old" plants in IES Urals2,300Existing Capacity1500 CoalCoal CoalCoal-fired units in Krasnoyarsk and Kuzbass energy	Installed capacityFuelPrice formationload factor (subject to completion of the investment programme by FSK)1,500Existing1100Gas CoalGas generation of "old" plants in IES CentreLoad possibilities not limited Centre1,500Existing4800 MewGasGas generation of "old" plants in IES UralsLoad possibilities not limited, potential to increase as the connection Tyumen - Urals strengthens5,600Existing600Coal "old" plants in IES UralsLoad possibilities not limited, potential to increase as the connection Tyumen - Urals strengthens1,000Existing600Coal "old" plants in IES UralsLoad possibilities not limited, potential to increase as the connection Perm - Urals strengthens630Existing Capacity630CoalGas generation of "old" plants in IES UralsLoad possibilities not limited, potential to increase as the connection Perm - Urals strengthens2,300Existing Capacity630CoalGas generation of "old" plants in IES CentreLoad possibilities not limited, potential to increase as the connection Smolensk - Moscow strengthens



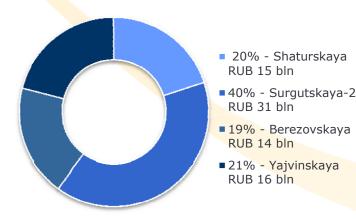
### **INVESTMENT PROGRAM: FINANCING SOURCES AND STRUCTURE**

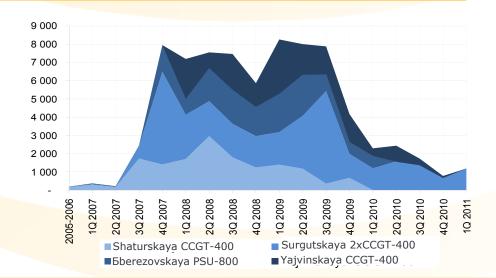
#### **PROJECTS FINANCING STRUCTURE BY SOURCES**





### FINANCING STRUCTURE BY PROJECTS







## NEED IN GENERATING EQUIPMENT...

	Shaturskaya	Surgutskaya2	Berezovskaya	Yajvinskaya
Туре	CCGT-400	2xCCGT-400	PSU-800	CCGT-400
Turbines	🗸 GE	🗸 GE	$\checkmark$	$\checkmark$
HRSG	🗸 CMI	<b>√</b>	$\checkmark$	$\checkmark$
Generator	🗸 GE	🗸 GE	🗸 PwrMach	<b>v</b>
Transformers	🗸 Areva	✓ on EPC	$\checkmark$	✓
Delivery	2008	2009	2009	2010

🖌 🛛 In stock

Ordered; delivery according to EPC-contract terms

Required; delivery will be included in EPC-contract terms



## ...AND OTHER RESOURCES AS WELL

### **NEED IN ADDITIONAL FUEL RESOURCES**

Project	Fuel	Vol. required
2xCCGT-400 Surgutskaya-2	Gas	844 – 1,060 mln.m <sup>3</sup>
CCGT-400 Shaturskaya	Gas	422 – 530 mln.m <sup>3</sup>
PSU-800 Berezovskaya	Coal	2,600 - 3,200 thou.tons
CCGT-400 Yajvinskaya	Gas	422 – 530 mln.m <sup>3</sup>

### NEED IN ADDITIONAL WORKFORCE

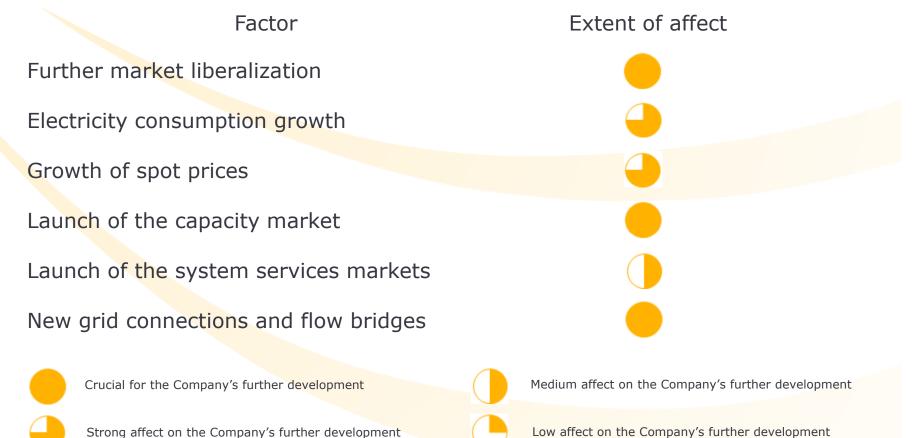
Project	+ staff	+ for constr. period
2xCCGT-400 Surgutskaya-2	~140	800 - 1,200
CCGT-400 Shaturskaya	~70	500 - 1,000
PSU-800 Berezovskaya	~100	~700
CCGT-400 Yajvinskaya	~70	300 - 700



# FURTHER VALUE EXTRICATION

We believe certain expected developments of Russian electricity market would open new horizons for OGK-4

#### KEY FACTORS AFFECTING CREATION OF ADDITIONAL VALUE OF OGK-4 IN 2008 AND BEYOND





## **CURRENT STATUS OF IMPLEMENTATION**

#### **CCGT-400 SHATURSKAYA GRES**



signed EPC-contract with GE/GAMA
 initial works on site

#### **PSU-800 BEREZOVSKAYA GRES**



EPC-contract T&C under discussion
 inspection of construction in progress

#### **2xCCGT-400 SURGUTSKAYA GRES-2**



signed EPC-contract with GE/GAMA
site preparation works

#### **CCGT-400 YAJVINSKAYA GRES**



 final stage of the tender for EPCcontractor



### CONTACTS

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