







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

### **CHANCES & CHALLENGES**

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Russian Utilities Conference

London, 14 March 2008



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### **FOCUSED ON VALUE CREATION**

- Amongst leading electricity producers in Russia with robust asset portfolio and a clear value-creating strategy
- Competitive positions based on advantageous asset locations in terms of fuel supply and electricity consumption
- Some of the most modern generating facilities providing high reliability and relatively low operating costs
- Substantial technical flexibility in varying fuel mix with a view to further commodity price volatility
- Superior opportunities for organic growth in attractive markets in light of ongoing market liberalization





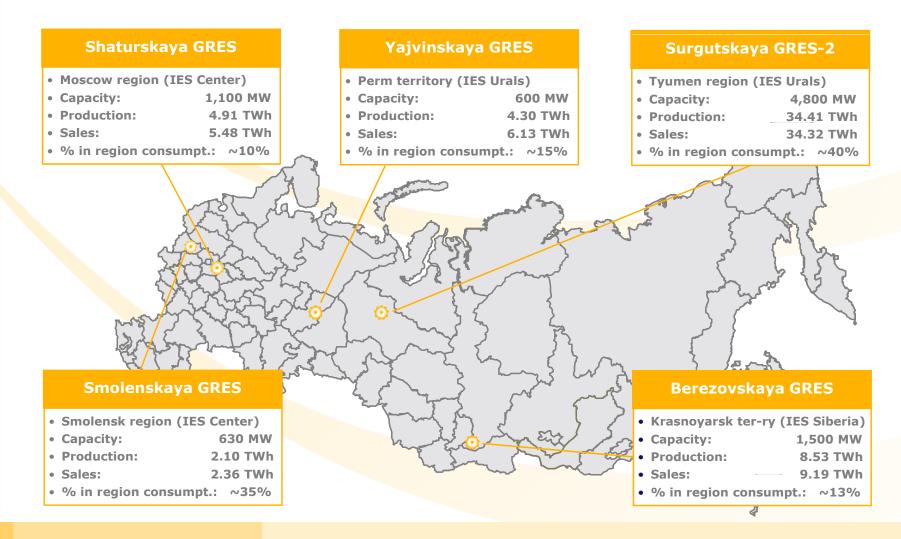




### **COMPANY OVERVIEW 2007**

- ❖ 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 FOR VALUE CREATION

## ASSET PORTFOLIO

Operational efficiency

\* Advantageous locations in proximity to fuel sources

## MARKET POSITIONING

Strong positions on the growing markets

Advanced trading strategies

## INVESTMENT PROGRAM

Market-driven new build projects

Financing sources for organic growth

## CORPORATE GOVERNANCE

 Best practice commitments

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

_			/	
	Shaturskaya	Surgutskaya2	Berezovskaya	Yajvinskaya
Type	CCGT	CCGT	Coal	CCGT
Capacity	400 MW	2x400 MW	800 MW	400 MW
Cost	€410 mln¹	€840 mln¹	€400 mln²	€440 mln²
Start	4Q 2009	4Q 2010	4Q 2009	4Q 2010

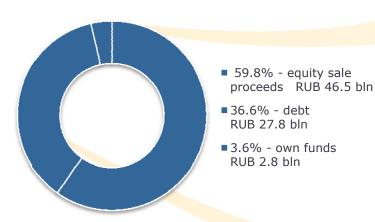
 In regions with existing or expected deficit

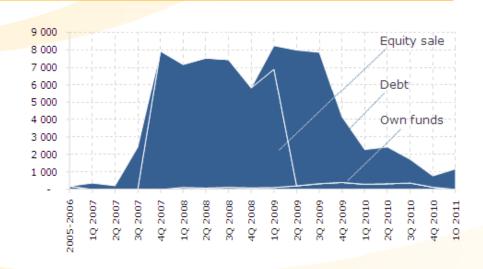
- New and efficient facilities enhance competitiveness
- New electricity/capacity to be sold 
   at free prices
- All new build contracts on the EPC (turnkey) basis



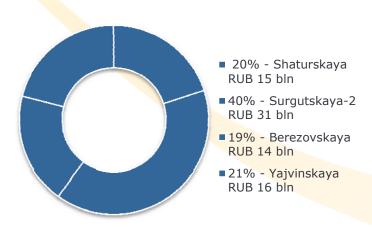
### FINANCING SOURCES AND STRUCTURE

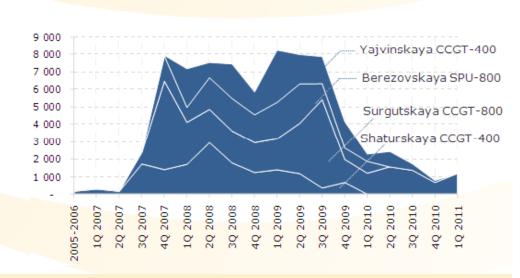
#### PROJECTS FINANCING STRUCTURE BY SOURCES





#### FINANCING STRUCTURE BY PROJECTS







# INVESTMENT PROJECTS SEEM ECONOMICALLY FEASIBLE

**CCGT-400 SHATURSKAYA GRES** 

Discounted PBP, years

IRR, %	13.4	IRR, % 14.4
NPV, in RUB m	5,511	NPV, in RUB m 14,653
PBP, years	12	PBP, years 11
Discounted PBP, years	23	Discounted PBP, years 21
PSU-800 BEREZOVSKAYA GRE	S	CCGT-400 YAJVINSKAYA GRES
IRR, %	20.9	IRR, % 14.3
NPV, in RUB m	23,644	NPV, in RUB m 6,719
PBP, years	9	PBP, years 12

12

2xCCGT-400 SURGUTSKAYA GRES-2

Discounted PBP, years

23

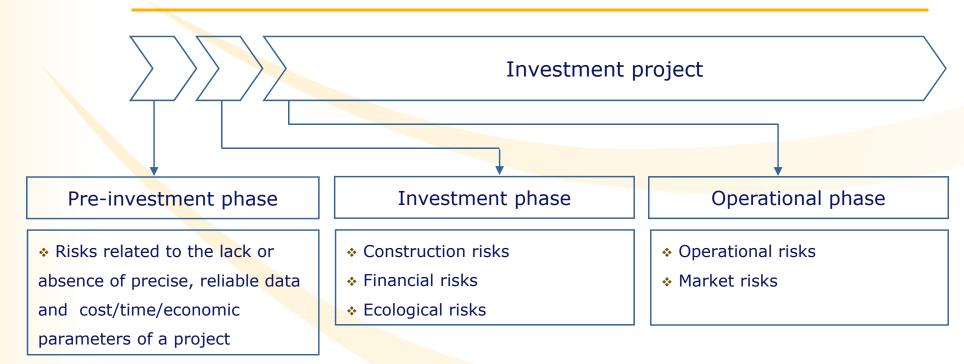


### **RISK IDENTIFICATION**

- Industry risks
- Administration/management risks
- Legal risks

- ❖ Regional risks
- National risks
- Force-majeure risks

#### **SEGMENTATION OF RISKS ON STAGES OF PROGECTS IMPLEMENTATION**





## KEY RISKS OF THE INVESTMENT PHASE CONSTRUCTION RISKS

#### **CONSTRUCTION RISKS RELATED TO ...**

... technology faults and bad works

- Independent technical agent controlling construction process technology
- Construction/cargo/personnel risks insurance

... slow delivery of generating equipment

- Agreement on delivery of long-lead items in advance to main EPC-contract
- Equipment manufacturer is a member of EPC consortium

... start time faults

Contractor's liability for commissioning time faults

... fail of guaranteed performance indicators

- Contractor's liability for the fail of the guaranteed performance indicators
  - decrease of installed capacity (kW)
  - excess of the heat rate (gce/kWh)



# KEY RISKS OF THE INVESTMENT PHASE FINANCIAL RISKS

#### FINANCIAL RISKS RELATED TO ...

... increase of project cost

\* EPC-contract (turnkey basis)

Fixed contract price

... currency rate volatility

Financial tools (derivatives): forwards, swaps, currency options etc.

❖ Contract price in EUR and USD

... credit exposure

 Strong control over the leverage ratio and other financial indicators within comfortable levels

... insolvency/default

Standby irrevocable letters of credit for Employer and Contractor as well



# KEY RISKS OF THE INVESTMENT PHASE ENVIRONMENTAL RISKS

#### **ENVIRONMENTAL RISKS RELATED TO ...**

... inaccessible instantaneous impacts during construction

- Contractor's liability for the violence of environmental legislation
- Contractor's P&I insurance coverage

... excess of permitted environmental quotes and allowances

- Contractor's liability for the fail of the guaranteed environmental indicators
  - NOx emissions <50 mg/m³</li>
  - CO emissions < 30 mg/m<sup>3</sup>



# KEY RISKS OF THE OPERATIONAL PHASE FUEL SUPPLY RISKS

#### **FUEL SUPPLY RISKS RELATED TO ...**

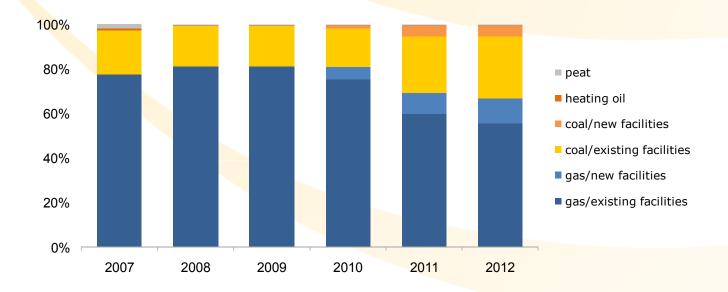
... fuel markets monopolization

- Diversification of fuel supplies
- Upstream expansion/integration

... gas supplies from independent producers

- Long-term fuel supply agreements
- Flexibility to switch to other types of fuel

OGK-4 anticipated fuel mix for 2007-2012





# KEY RISKS OF THE OPERATIONAL PHASE OPERATIONAL RISKS

#### **OPERATIONAL RISKS RELATED TO ...**

... equipment outage

... tardy/undue repair

... operational performance decline

- ❖Contractor's guarantee obligations
- Contractual Service Agreement (simultaneously with main EPC-contract)
- Industrial All Risks insurance coverage
- Contractor's liability for the equipment availability factor
- >0.968 within 2 years

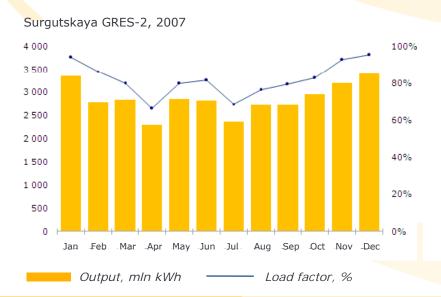


# KEY RISKS OF THE OPERATIONAL PHASE MARKET RISKS

### FIRST PRICING ZONE (EUROPE|URALS)

- Commissioning of new facilities is planned in the regions with potential capacity deficit
- New facilities are much more efficient comparing to the older ones

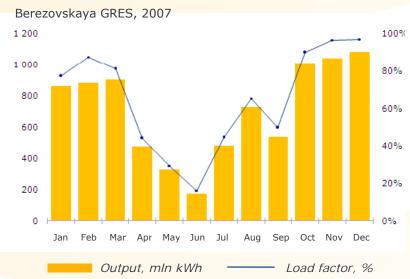
### New facilities are likely to be a base-load



### **SECOND PRICING ZONE (SIBERIA)**

- Strong positions and higher market share of hydro generators significantly affecting spot market price
- ❖ Current capacity surplus in the Siberian Energy System amounts to ~4 GW

### New facilities are likely to be "halfpeak" seasonal generators





# KEY RISKS OF THE OPERATIONAL PHASE CAPACITY MARKET

### RISKS AND CONSTRAINTS RELATED TO CAPACITY MARKET FOR TRANSITION PERIOD UNTIL '11

Process		Risk/constraint			
Capacity included in tariff & balance i	·	Tariff at fixed costs level (payback will be not contemplated)			
Competitive selection (all capacity included in	• •	Bid at a price not higher than tariff			
Free bilateral electricity-capacity agreement in free electricity flow zone			<ul> <li>Risk related to determination of a bid price (low – value decrease; high – no Free bilateral electricity-</li> </ul>		
Yes			capacity agreement)		
Sale of "capacity + electricity" at a bid price or higher	Compelled purchase and sale of electricity in spot market		<ul> <li>No counterparty selection</li> <li>Financial guarantees may be in- adequate to the value of a contract</li> </ul>		
		A. A			
<ul> <li>Capacity sale within pricing zone at tariff price</li> <li>Electricity sale within pricing zone at spot mrkt price</li> </ul>			Higher share of doubtful customers in portfolio of contracts		



# PROJECTS ALLOW MAKING POSITIVE EXPECTATIONS FOR 2011 AND BEYOND

Plant	Installed capacity		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 Centre	Load possibilities not limited	Medium
		New	400	Gas			Strong
Surgutskaya-2 5		Existing	4800		Gas generation of	Load possibilities not limited, potential to increase as the connection Tyumen – Urals strengthens	Strong
	5,600	New	800	Gas	"old" plants in IES Urals		Strong
Yaivinskaya 1	1,000	Existing	600	Coal		Load possibilities not limited, potential to increase as the connection Perm – Urals strengthens	Strong
	_,	New	400	Gas			Strong
Smolenskaya	630	Existing Capacity	630	Coal		Load possibilities not limited, potential to increase as the connection Smolensk – Moscow strengthens	Medium
Berezovskaya		Existing	1500		Coal-fired units in Krasnoyarsk and Kuzbass energy systems	Load possibilities increase as the connection betwen Sibir and Europe improves	Strong
	2,300	New	800	Coal			Strong



### **CURRENT STATUS OF IMPLEMENTATION**

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



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

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



inspection of construction in progress

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



- ❖ signed EPC-contract with GE/GAMA
- site preparation works

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

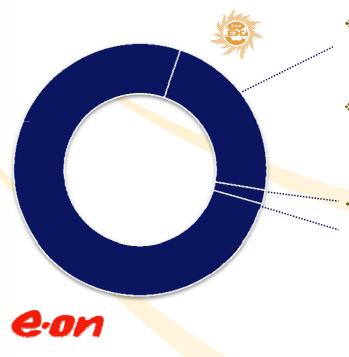


final stage of the tender for EPCcontractor



### SHAREHOLDERS BREAKDOWN

❖ E.ON is a controlling shareholder in OGK-4 with 76.09% stake



- 22.49%, currently owned by RAO UES, will be distributed among RAO UES's shareholders on Jul 01, 2008, in course of its
- ~350,000 shareholders, including major global investment funds, various hedge funds and an army of individuals
- 1.42% attributable to minority shareholders in OGK-4 as of March 3, 2008, inter alia:
  - Credit Suisse
  - Morgan Stanley
  - Clariden Leu
  - Bank of Moscow
  - Troika Dialog
  - CIT Fortis
  - Merrill Lynch

- Potential freefloat of OGK-4 shares after the reorganization of RAO UES:
- approx. 24% of OGK-4 total equity
  - approx. \$2 bln (given share price of \$0.13)



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