

# Investor presentation

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# Federal Grid Company profile

## Company overview

- ▶ FGC – natural monopoly in Russia's electricity transmission sector, owning and operating Unified National Electricity Grid (high-voltage lines of 220+ kV)
- ▶ Revenues formed by transmission charges and grid connection fees
- ▶ Currently, responsible for the consolidation of the grid complex of UNEG and management of RAO UES holdings in distribution companies
- ▶ As a result of RAO UES reorganisation and FGC additional share issues, Government's stake to remain at 75%+
- ▶ After 1 July 2008 FGC shares will be listed and traded on Russian stock exchanges
- ▶ DR program for foreign investors to be put in place starting 1 July 2008

## Unified National Electricity Grid



■ FGC regions

### Key financial indicators\*

|                   | 2007  |
|-------------------|-------|
| Revenues, US\$mIn | 2,403 |
| EBITDA, US\$mIn   | 908   |
| EBITDA margin     | 38%   |
| Net debt, US\$mIn | 640   |

### Key operational indicators

|                                    |            |
|------------------------------------|------------|
| Total length of transmission lines | 120,000 km |
| Electricity output                 | c.500 TWh  |
| Number of substations              | 796        |
| Installed transformer capacity     | 310 GVA    |

\*Notes:

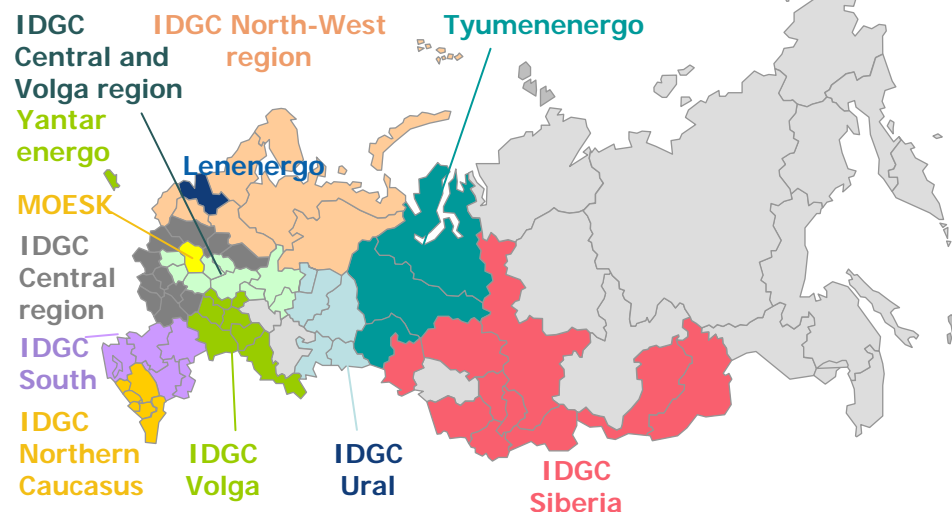
- 1) RAS accounts
- 2) average exchange rate for 2007 - RUR 25.55 / 1 USD
- 3) IFRS accounts for 2007 will be prepared by July 2008

# IDGC-Holding profile

## Company overview

- ▶ Regional distribution companies (RDC) are consolidated in 11 Interregional distribution companies (IDGCs) by May 2008
- ▶ IDGCs own and operate distribution lines (110 kV and below)
- ▶ IDGCs revenue stream:
  - electricity distribution charges from supply companies and end-consumers
  - connection fees from end-consumers
- ▶ All RAO UES stakes in IDGCs are consolidated in IDGC-Holding
  - IDGC-Holding owns controlling stakes in all IDGCs
  - Government owns 52% in IDGC-Holding
  - IDGC-Holding to start trading in November 2008 (depository receipts in January 2009)

## IDGC map



### Key financial indicators of IDGCs\*

2007

|                              |        |
|------------------------------|--------|
| Aggregated revenues, US\$mIn | 12,800 |
| Aggregated EBITDA, US\$mIn   | 4,500  |
| EBITDA margin                | 35%    |
| Net debt, US\$mIn            | 2,400  |

### Key operational indicators of IDGCs

|                                    |            |
|------------------------------------|------------|
| Total length of transmission lines | 2,1 mln km |
| Electricity output                 | 655 TWh    |
| Number of substations              | 451,000    |
| Installed transformer capacity     | 371 GVA    |

\*Notes:

- 1) aggregated RAS accounts for all RDCs
- 2) average exchange rate for 2007 - RUR 25.55 / 1 USD

# Investment highlights\*

## Growth outlook

- ▶ Intensive investment programme to increase the assets of both FGC and IDGCs by a factor of over 4 from 2007 to 2015
- ▶ Anticipated significant EBITDA growth both for FGC and IDGCs

## New regulatory regime

- ▶ Formation of the new regulatory system based on return on capital to be completed in 2008, parameters and timeline being determined (in accordance with 2007 amendments to Federal Law N35)
- ▶ Ministry of Economy formulates plans of socio-economic development taking into account introduction of RAB (regulatory asset base) tariff regulation in 2009-2011
- ▶ Cash flows to stabilise in 2011 and remain predictable in the long term

## Liquidity

- ▶ FGC free float – at least 10%
- ▶ IDGC-Holding free float – at least 30%
- ▶ Aggregated IDGCs free float – up to 50%
- ▶ Depositary receipts programmes for FGC, IDGC-Holding and some of IDGCs



# Federal Grid Company (FGC)

# Strategic objectives of FGC

## Long-term investment attractiveness

- ▶ Invest US\$60bln by 2015 in the expansion and maintenance of the grid infrastructure (in 2008 prices)
- ▶ Achieve cost of capital comparable to peer countries by 2015
- ▶ By 2011 achieve stabilised EBITDA level sufficient to implement long-term investment projects

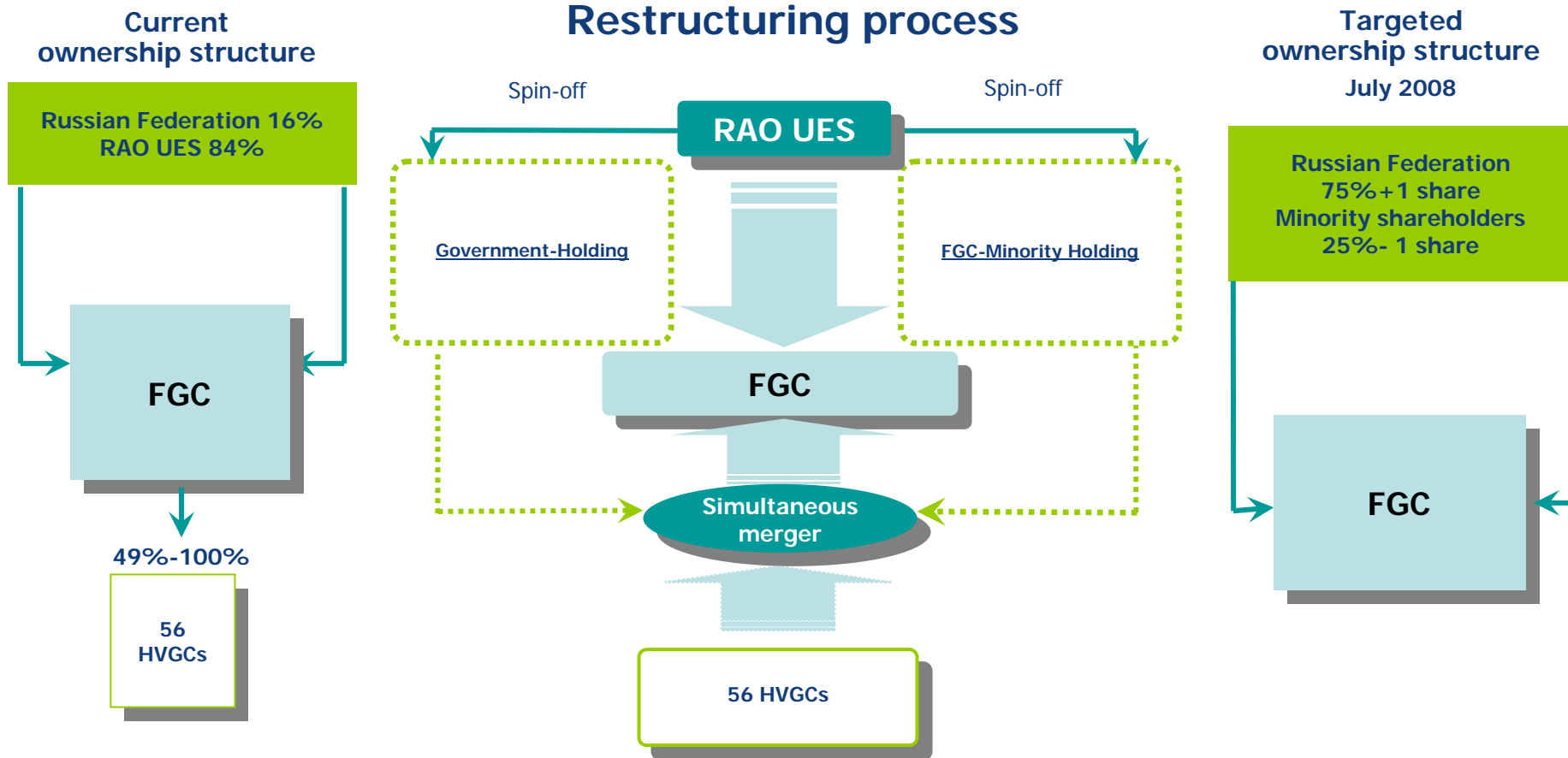
## Efficiency improvement

- ▶ Improve operating efficiency to reach the level of transmission companies in developed countries thanks to introduction of respective economic incentives
- ▶ Increase share of net debt in RAB up to 30-40% in line with peer companies in developed countries

## Reliability improvement

- ▶ Establish reserve transmission and transformer capacity in the next 5 years within the system to provide for sustainable economic development
- ▶ Introduce economic accountability for meeting reliability and quality standards in servicing customers

# FGC establishment in context of RAO UES reform



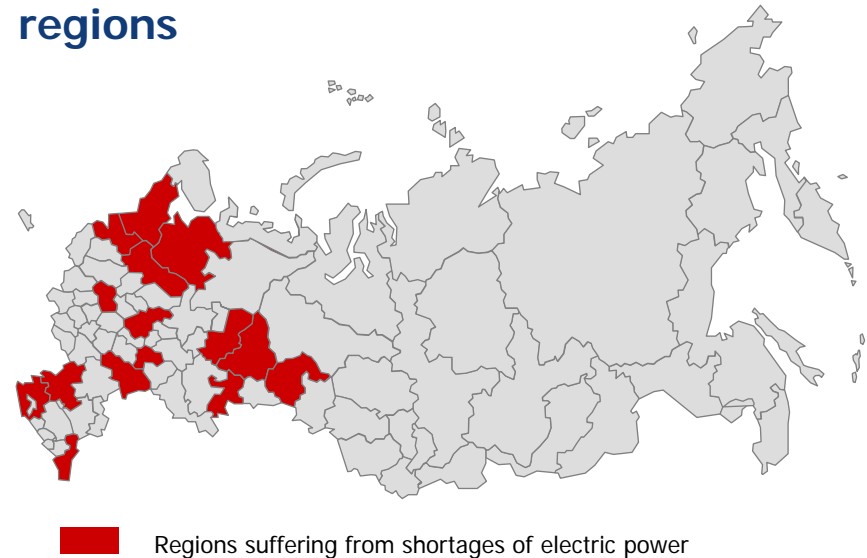
- ▶ On 1 July, 2008 RAO UES ceases to exist
- ▶ RAO UES shareholders will receive shares of FGC proportionally to their interests in RAO UES based upon the known conversion rates
- ▶ 56 high-voltage grid companies (HVGC) to merge with FGC on 1 July 2008



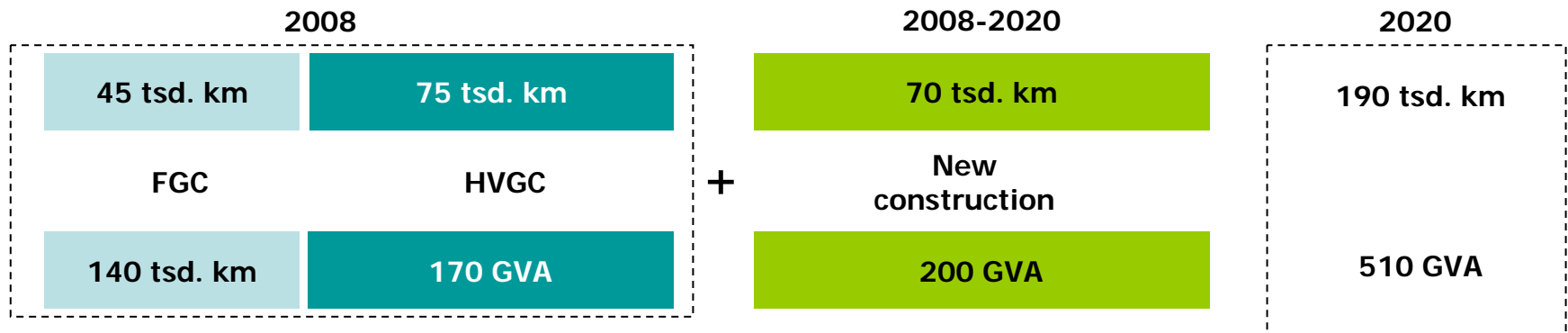
# Demand for grid capacities

- ▶ Sustainable electricity consumption growth (CAGR 4% by 2020\*) puts grid capacities under strain
- ▶ In 2007 grid load was close to maximum in 16 regions across the country
- ▶ 70 tsd km of power lines and 200 GVA of transformer capacity to be constructed by 2020 to meet the growing demand

## Shortage of electric power in the regions



## Increase in grid capacity

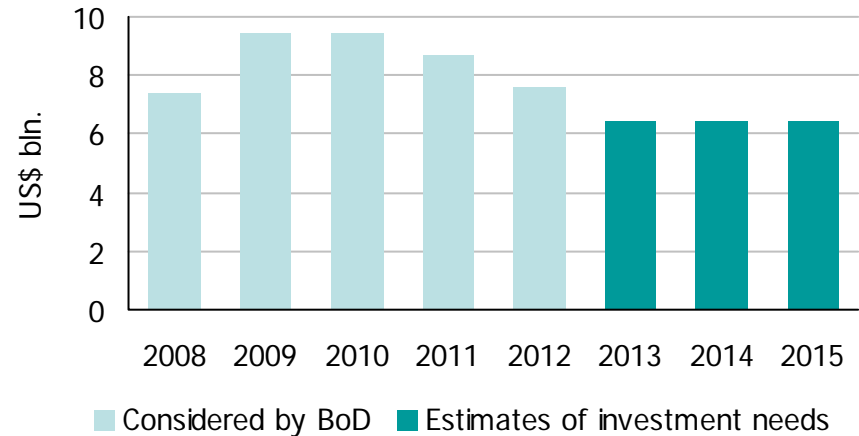


\* Minpromenergo forecasts

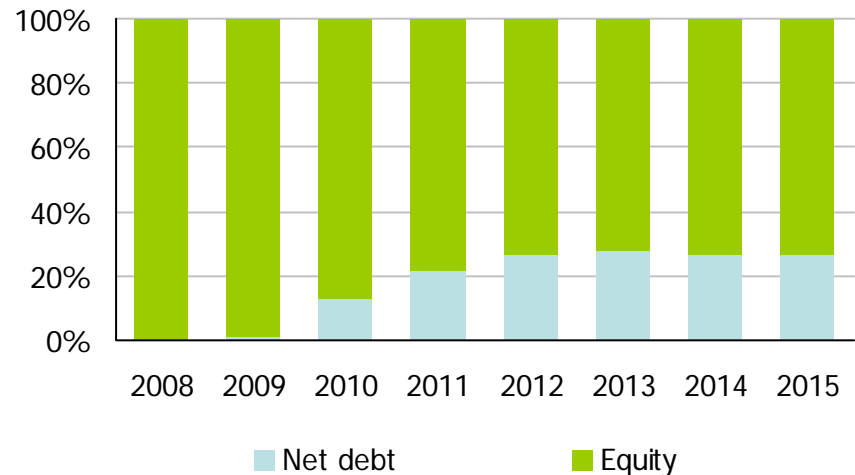
# FGC investment programme\*

- ▶ Projected annual capex — US\$6-10bln
- ▶ In March 2008, FGC BoD has considered investment programme for 2008-2012
- ▶ Financing of the investment programme at first stage through capital injections from RAO UES and Government via additional share issues
  - US\$3.4bn attracted through two completed additional issues in 2007-2008
- ▶ Introduction of tariff regulation based on RAB allows to finance the investment programme via
  - re-investment of equity capital based on justified return
  - intensive use of debt capital
- ▶ Additional source of financing – grid connection fees (over US\$4bln by 2012)

## Investment programme



## Capital structure



# Changes in regulatory environment

## Key principles of RAB-regulation

- ▶ Transmission charges to include justified return on invested capital in line with international best practices based on RAB-methodology
- ▶ Justified return is determined based on CAPM model and achievable capital structure
- ▶ Initial RAB determined based on optimised depreciated replacement costs of assets (optimised DRC)
- ▶ Incentives to increase operational efficiency within the 5-year regulation period
- ▶ Mechanism for annual adjustment of regulated revenues based on macroeconomic factors, requirements for quality and reliability

## Quantitative parameters of RAB-regulation\*

- ▶ 3-year transition period
- ▶ Upon expiry of transition period, 5-year regulation period
- ▶ Return on RAB before taxes (nominal in RUR) – 10% in transition period, 7.5-8% upon expiry of transition period
- ▶ Exact dates of RAB introduction currently being discussed with respective ministries and government authorities

# Borrowings and leverage

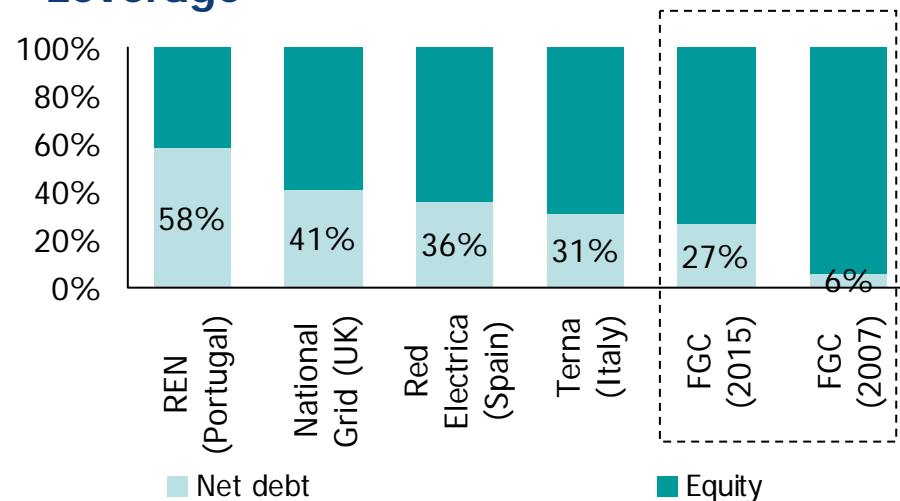
- ▶ FGC plans to increase net debt from US\$640mln in 2007 to over US\$10bln in 2015 (increasing leverage to 30%)
- ▶ International companies operating in similar regulatory environment increase their leverage up to 30-40%
- ▶ FGC seeks to reduce cost of debt capital, and has already managed to improve its credit ratings significantly over the past 4 years
- ▶ Comprehensive set of measures to achieve the targeted reduction of cost of capital
  - introduction of a new regulatory system
  - improvement of credit ratings (currently, BBB from S&P, Baa2 from Moody's)
  - obtaining corporate governance rating
  - increasing company's transparency for investors (IFRS reporting)

## FGC credit ratings

|                                  | 2004     | 2005      | 2006        | 2007        | Apr-2008    |
|----------------------------------|----------|-----------|-------------|-------------|-------------|
| <b>STANDARD &amp; POOR'S</b>     | <b>B</b> | <b>B+</b> | <b>B+</b>   | <b>BB+</b>  | <b>BBB</b>  |
| <b>Moody's Investors Service</b> |          |           | <b>Baa2</b> | <b>Baa2</b> | <b>Baa2</b> |

Note: as of year-end  
Source: Standard and Poor's, Moody's

## Leverage



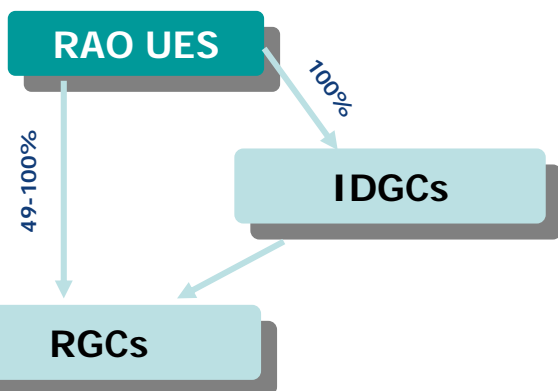
Source: Companies' data



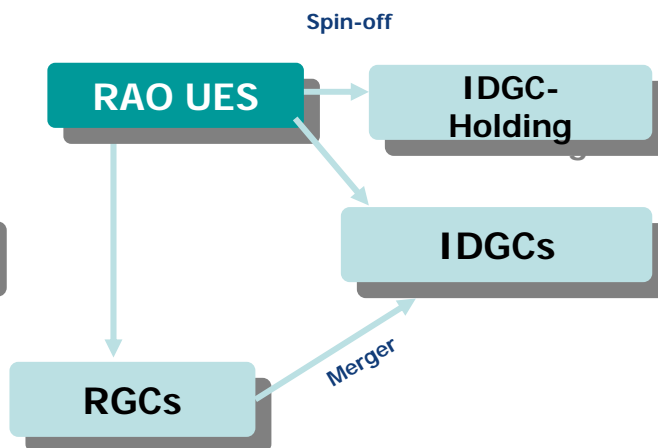
# **Electricity distribution sector (IDGC-Holding)**

# Establishment of IDGC-Holding in context of RAO UES reform

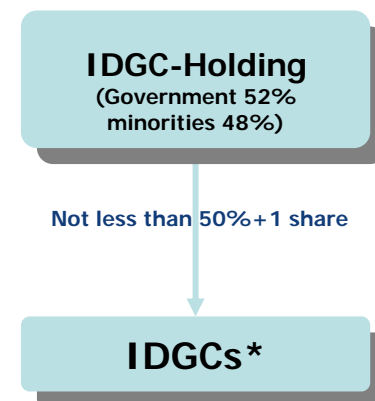
Ownership structure of distribution complex before February 2008



Restructuring process



Targeted ownership structure July 2008



- ▶ On 1 July, 2008 RAO UES ceases to exist
- ▶ RAO UES shareholders will receive shares of FGC proportionally to their interests in RAO UES based upon the known conversion rates
- ▶ RAO UES shares in IDGCs transferred to IDGC-Holding

\* IDGC South, IDGC Center and Urals, IDCS Center, IDGC North Caucasus, IDGC Volga, IDGC Siberia, IDGC North-West, IDGC Center, Lenenergo, Tyumenenergo, MOESK (Moscow)

# Strategic plan for development of distribution sector

**2004-2006**

**Unbundling of  
AO-Energos**

- ▶ Unbundling completed by 2006 (excluding the Far East)

**2007-2008**

**Sector  
consolidation**

- ▶ By July 2008 all distribution companies to merge in 11 interregional distribution companies (IDGCs)
- ▶ End-May 2008 – most IDGCs start trading on stock exchanges
- ▶ IDGC-Holding starts trading in November 2008

**2008-2011**

**Introduction of  
RAB**

- ▶ “Pilot projects” starting from 1 July 2008
- ▶ RAB introduction for all IDGCs in 2009-2011

**2010-2011**

**Licensing**

- ▶ Licensing provides for clear mechanism of the governmental control over the sector
- ▶ Ensuring appropriate level of sustainability and quality of supply

**2010-2011**

**Potential  
decision  
on Government  
exit from  
IDGCs**

- ▶ Government to take decision on the disposal of its stakes to private investors, incl. foreign

# Strategic objectives of IDGC-Holding

## Long-term investment attractiveness

- ▶ Invest US\$70 bln by 2015 in the expansion and maintenance of the grid infrastructure (in 2008 prices)
- ▶ Achieve cost of capital comparable to peer countries by 2015
- ▶ By 2011 achieve stabilised EBITDA level sufficient to implement long-term investment projects

## Efficiency improvement

- ▶ Improve operating efficiency to reach the level of distribution companies in developed countries thanks to introduction of respective economic incentives
- ▶ Increase share of net debt in RAB up to 40-50% in line with peer companies in developed countries

## Reliability improvement

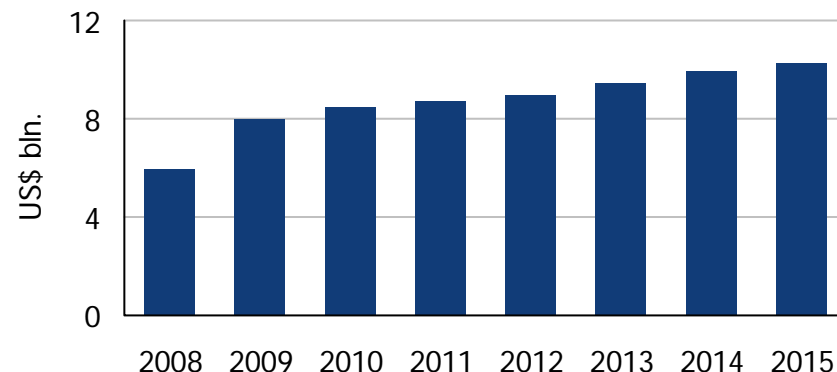
- ▶ Bring asset depreciation down to the normalized level of c.50% by 2015
- ▶ Establish reserve capacity in the next 5 years within the system to provide for sustainable economic development
- ▶ Introduce economic accountability for meeting reliability and quality standards in servicing customers



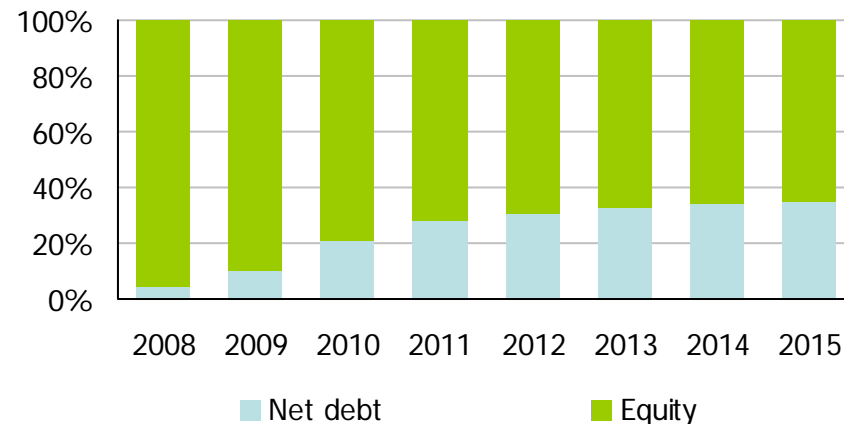
# Investment programme of the distribution sector\*

- ▶ IDGC annual investments planned at the level of US\$6–10bln
- ▶ New grid infrastructure construction accounts for the major part of the investments until 2012
- ▶ After 2012, renovation of the existing assets accounts for the majority of the investments
- ▶ Introduction of RAB-regulation allows to finance the investment programme via
  - re-investment of equity capital based on justified return
  - intensive use of debt capital
- ▶ Additional source of financing – grid connection fees (c.US\$6bln by 2012)

## Aggregated IDGCs investment programme



## Capital structure



Note: Shares of net debt and equity in RAB starting 2009

# Regulatory system of the distribution sector

## Key principles of RAB-regulation

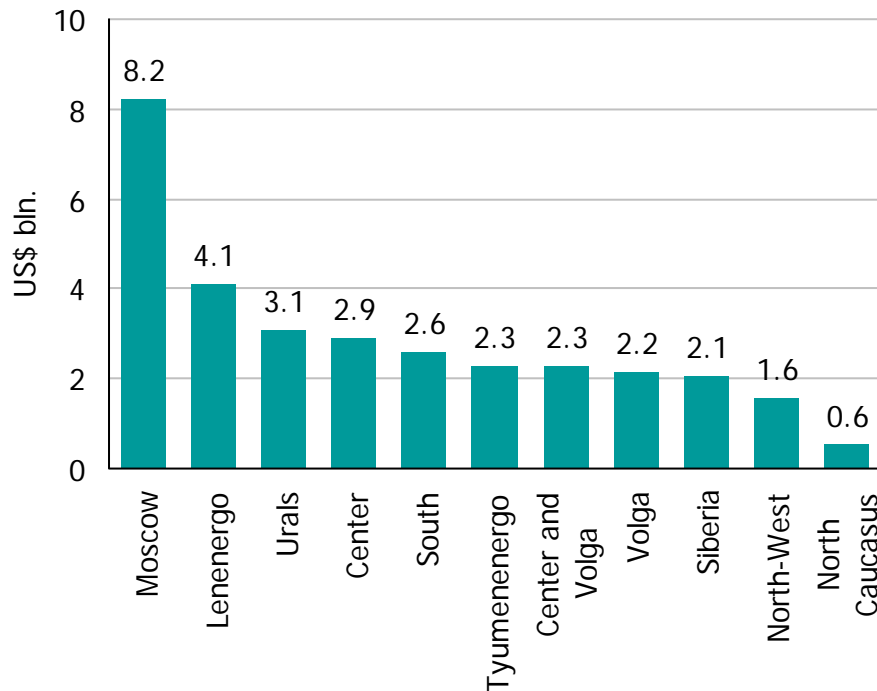
- ▶ Transmission charges to include justified return on invested capital in line with international best practices based on RAB-methodology
- ▶ Justified return is determined based on CAPM model and achievable capital structure
- ▶ Initial RAB determined based on optimised depreciated replacement costs of the assets (optimised DRC)
- ▶ Incentives to increase operational efficiency within the 5-year regulation period
- ▶ Mechanism for annual adjustment of regulated revenues based on macroeconomic factors, requirements for quality and reliability
- ▶ Federal Law – N35 with amendments adopted in 2007 allows to exceed the tariff cap in case of justified investment needs

## Quantitative parameters of RAB-regulation

- ▶ Introduction for all IDGCs in 2009-2011, pilot projects from 1 July 2008
- ▶ 3-year transition period
- ▶ Post transition, 5-year regulation period
- ▶ Return on RAB before taxes (nominal, in RUR) in transition period – 12%
- ▶ Possibility of reduced return on initial capital to smoothen the tariff growth (6% in Year 1, 9% in Year 2)
- ▶ Post transition, 10% return for all capital
- ▶ Draft Government Resolution 109 “On price formation in electric and heat power” containing parameters of the regulation being under Government review since 28 March, 2008

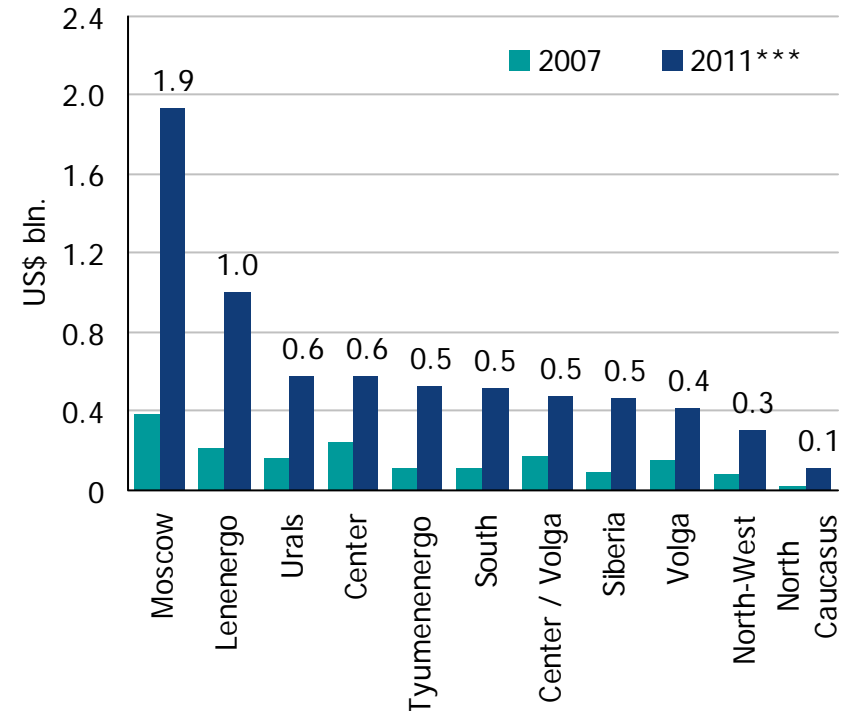
# Key IDGC parameters in the new regulatory system\*

## Targeted initial RAB (IRAB)\*\*



\*\*calculated RAB as of beginning of 2009

## Targeted EBITDA (from distribution)



\*\*\*including latest changes in investment programme

- ▶ 2007-2011 sector EBITDA growth by a factor of 3.5x
- ▶ Stabilised EBITDA level to be achieved in 2011, as in 2009-2010 a reduced rate of return on initial capital expected to apply

# Borrowings and leverage

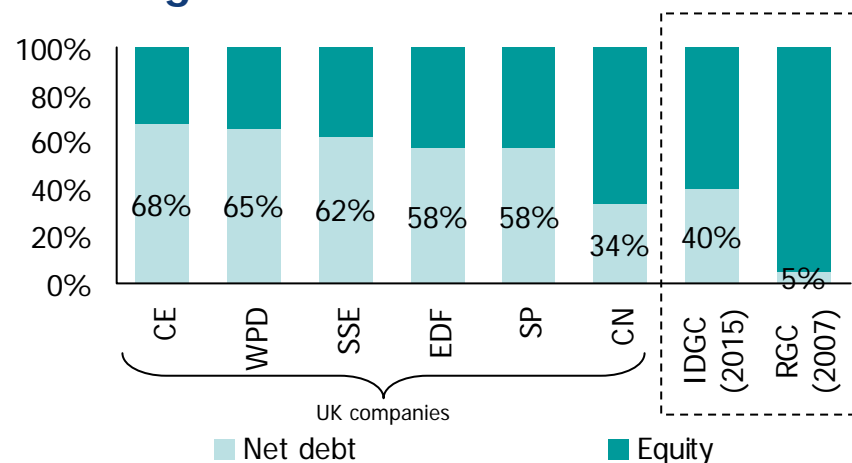
- ▶ IDGCs plan to increase net debt from US\$2.4bln in 2007 to over US\$30bln in 2015 (increasing leverage from 5% to 40%)
- ▶ International companies operating in similar regulatory environment increase their leverage up to 40-50%
- ▶ IDGCs seek to reduce cost of debt capital and narrowing spread to Government bonds
- ▶ Comprehensive set of measures to achieve the targeted reduction of cost of capital
  - introduction of a new regulation system
  - obtaining and improving of credit ratings (currently, only MOESK has an international rating – Ba2 from Moody's)
  - implementation of IFRS reporting system
  - obtaining corporate governance rating
  - increasing company's transparency for investors

## Bond issuances of RGCs

| Issuer        | Size, RURmln | Maturity | Yield to maturity |
|---------------|--------------|----------|-------------------|
| MOESK         | 6,000        | Sep-2011 | 8.57%             |
| Lenenergo     | 3,000        | Jan-2012 | 9.73%             |
| Lenenergo     | 3,000        | Apr-2012 | 10.14%            |
| Kubanenergo   | 3,000        | Jul-2010 | 8.02%             |
| Tyumenenergo  | 2,700        | Apr-2010 | 10.23%            |
| Termenergo    | 1,000        | May-2012 | 9.98%             |
| Chelyabenergo | 600          | May-2010 | 8.69%             |

Source: Bloomberg, Cbonds.ru as of 11.04.2008

## Leverage



Note: Equity = RAB – net debt

Source: Companies' data

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