



# Federal Hydrogeneration Company HydroOGK

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JSC «Nizhne-Bureiskaya HPP»

**Victor Minakov**

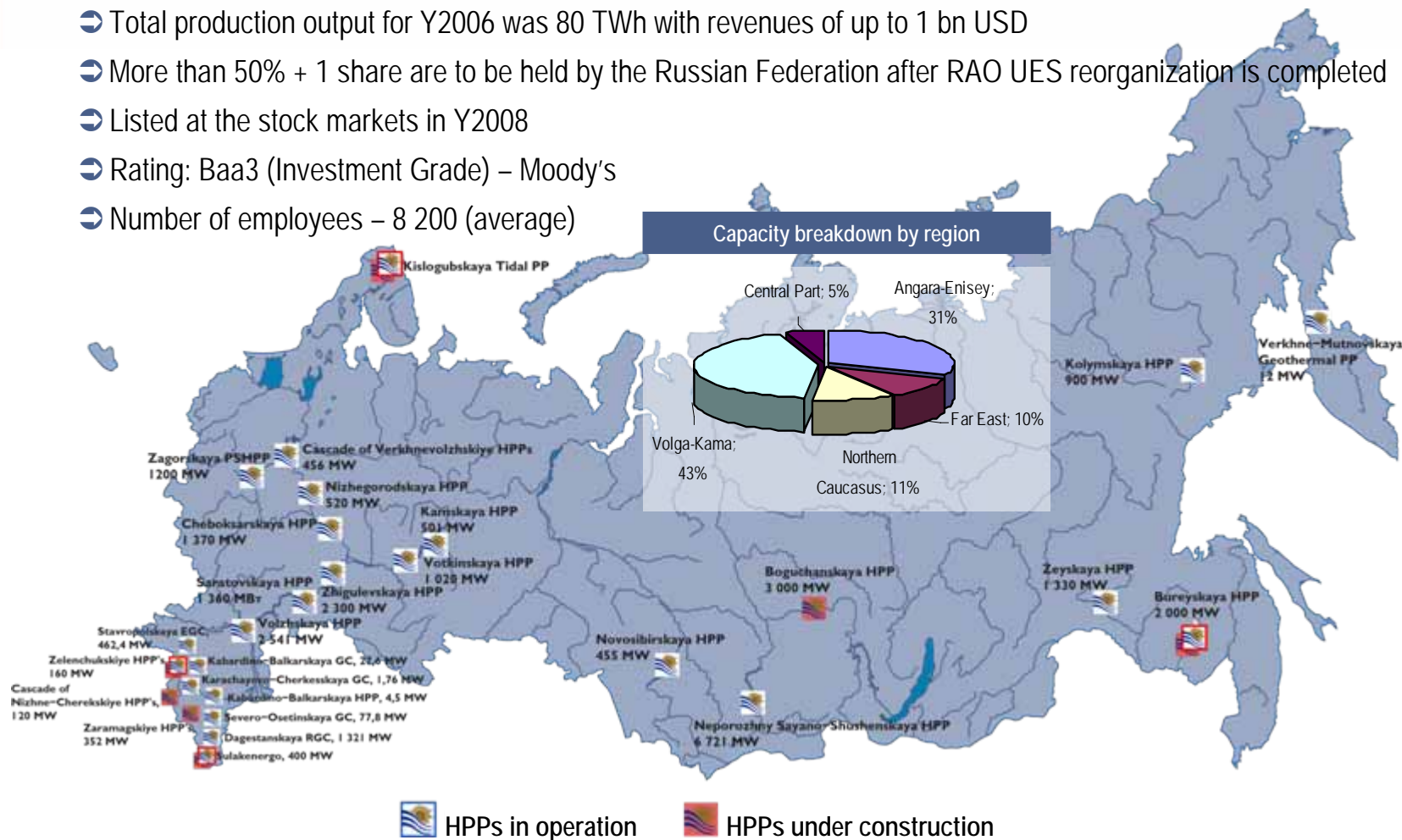


www.gidroogk.ru

# RusHydro – Hydro GenCo

## Created in the Process of RAO UES Reform

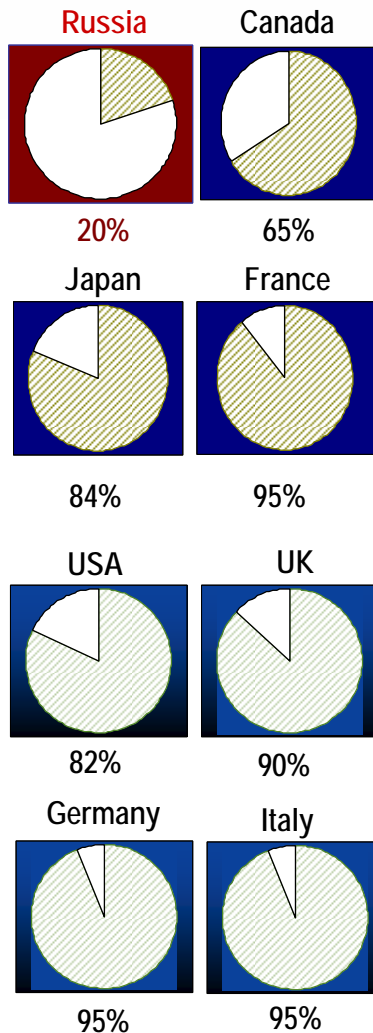
- ➔ Largest generator of electricity in Russia and the #2 hydro genco in the world in terms of installed capacity
- ➔ RusHydro operates 49 hydro power plants with 23.7 GW capacity (total of 6m for 2007)
- ➔ Key Contributor to the Development of Eco-Electricity Generation in Russia (wind, small hydro, tidal)
- ➔ Total production output for Y2006 was 80 TWh with revenues of up to 1 bn USD
- ➔ More than 50% + 1 share are to be held by the Russian Federation after RAO UES reorganization is completed
- ➔ Listed at the stock markets in Y2008
- ➔ Rating: Baa3 (Investment Grade) – Moody's
- ➔ Number of employees – 8 200 (average)





# Potential for Growth

## Hydro power resources implementation rate in Russia and other G8 countries



- In terms of hydro power resources Russia ranks 2<sup>nd</sup> in the World behind China
- Russian feasible hydro power resources amount to 853 TWh (approximately 8.3% of total hydro power resources in the World)
- Russia lags significantly behind other developed countries in terms of the hydro power implementation rate. Most of the G8 countries have tapped more than 80% of their hydro power potential





# Investment Program: Key Projects<sup>1</sup>

- In 2006-2010 hydro commissioning capacity will reach 4.9 GW
- HydroOGK Investment Program (2006-2010) has been approved by RAO UES Management Board to the sum of \$12.4 bn, including \$2.28 bn to be allocated in Y2007

Project	Plant design installed capacity (MW)	Capex required in 2006-2010 (\$ bn)	To be commissioned in (as planned)
<b>Projects to be completed</b>			
Bureiskaya HPP	2,000	1.36	2007-2009
Boguchanskaya HPP + Aluminium Smelter	3,000	2.59	2009-2012
Irganaiskaya HPP	400	0.23	2007
Zelenchukskiye HPPs	320	0.05	2006
Zaramagskiye HPPs	352	0.29	2007-2010
Cascade of Nizhnecherekskiye HPPs (Kashkhatau HPP)	65	0.19	2008
Shore Spillway at Sayano-Shushenskaya HPP	-	0.21	2010
<b>New projects</b>			
Zagorskaya pump storage plant No. 2	840	0.88	2010-2012
Nizhnebureiskaya HPP	324	0.73	2010-2011
Gotsatlinskaya HPP	100	0.20	2010
Small-capacity HPPs	300	0.33	2006-2010

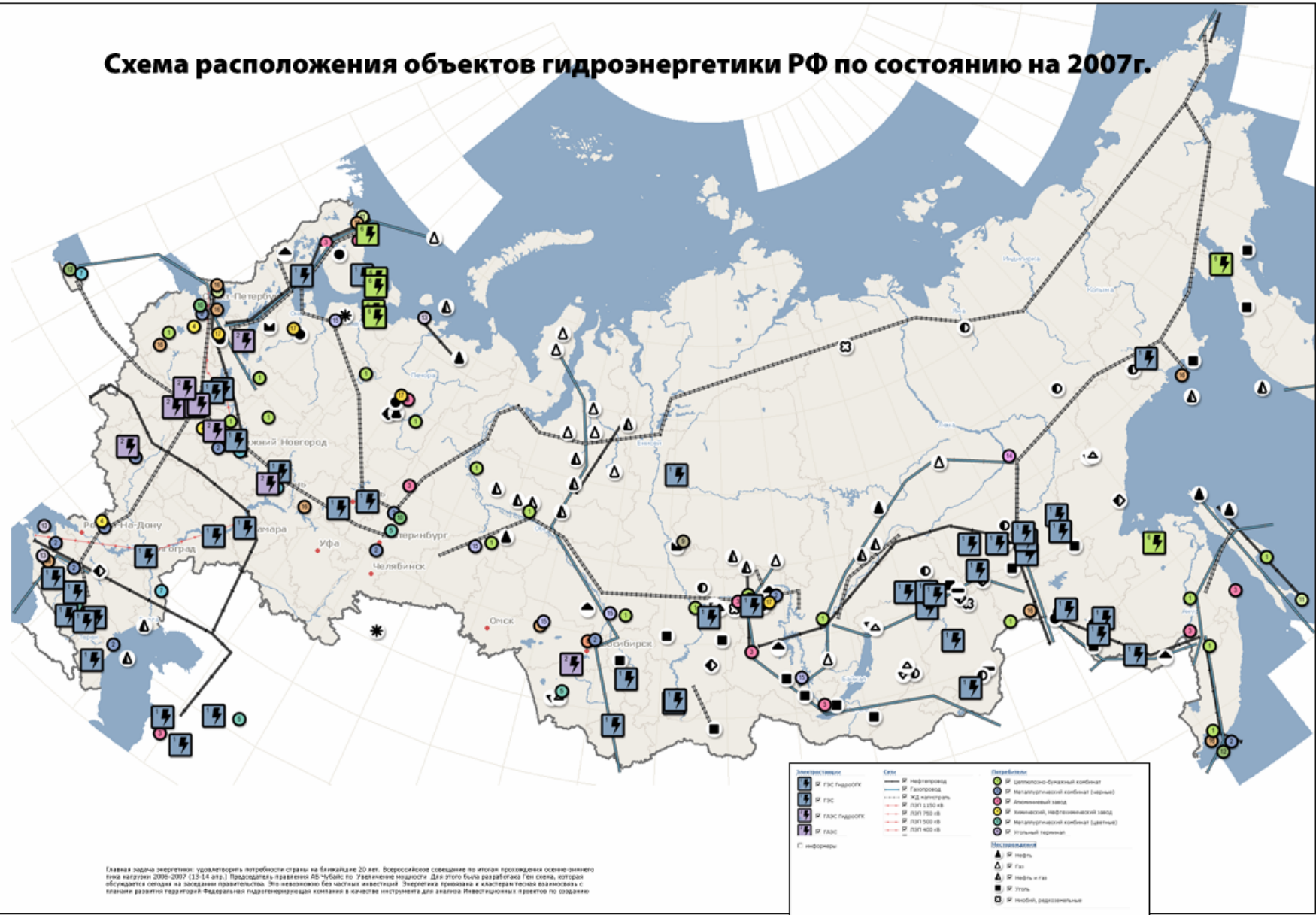
<sup>1</sup>The figures are from HydroOGK's 2006-2010 Investment Program (as approved by the RAO UES Management Board)

<sup>2-3</sup>Including the Rehabilitation Capex and R&D for new projects

## Rehabilitation and Modernization Capex

Total Rehabilitation Capex for Y2006-2010 estimated in amount of \$1.6 bn, which includes \$308 mln to be allocated in Y2007. As the result of implementation of Y2006-2010 Rehab program the total installed capacity of HydroOGK facilities will increase by 160 MW.

### Схема расположения объектов гидроэнергетики РФ по состоянию на 2007г.





# Private Investments: Basic Approach

