



**Institute
of Energy
Strategy**

(1998-2018)



FOCUS AREAS



- Energy strategizing
- Global energy foresight
- New energy philosophy (ergodynamics and energology)

ENERGY IDEOLOGY

- Energy = motion, development, life
- Potential = natural resources, infrastructure, technologies, human capital
- Efficiency = gain in quality of life and national (social) wealth in relation to potential utilized
- Civilization = large «energy» system

METHODOLOGY

- Metasystemic (System of System: nature – society – man) energy – environmental – economic approach
- Structural (spatiotemporal) similarity and the fractal image of future development
- Intelligent forecast of energy information ergatic (man-machine) systems



MILESTONES AND MAIN RESULTS

Background (1992 – 1998):

- The concept of Russian energy policy under new economic conditions (1992)
- Energy Strategy – 2010 (1995)

Beginning of the way (1998 – 2005) – as a state institution under the Russian Ministry of Energy:

- Energy Strategy – 2020 (2000)
- Development of regional energy programs: Yamalo-Nenets Autonomous Okrug (2002), Komi Republic (2003), Buryatia (2005), Tula region (2004)

New status, new problems to solve (2005 – 2015) – as CJSC «GU IES»:

- Energy Strategy – 2030 (2009, together with the Energy Research Institute, Oil and Gas Institute of the Russian Academy of Sciences, Melentiev Energy Systems Institute, Siberian Branch of the RAS, Krzhizhanovsky Power Engineering Institute, etc.)
- Draft general scheme of oil industry development in the Russia (2011)
- Neural prediction model for global oil prices (2006)
- UN UNESCO White Paper on sustainable global energy development (2007 – 2011)
- Set of research activities for gas sector development (2013 – 2015, together with the «NIIgazekonomika»)
- Set of works for electric power industry development: unified national power grid foresight (2012), hydropower industry development program up to 2050 (2013 – 2015, together with JSC «Institute «ENERGOSETPROEKT» (ESP), Hydroproject, etc.)
- Russian energy security doctrine (2012)
- Moscow energy strategy (2015)

New vector (2015 – 2018):

- Draft Energy Strategy – 2035 and Energy Strategy – 2050 (2013 – 2015, together with the Energy Research Institute of the RAS and Analytical Center for the Government of the Russian Federation)
- Post strategic view of energy development for 50 years to come (2016)
- Intelligent forecasting of energy civilization development (2015)
- Eurasian energy civilization (2017)



PERIODICALS

«Energy Policy» journal

- 6 issues per year, published since 1998, included in the Higher Attestation Commission list



«Energy Policy» journal supplements

- Oil and gas sector needs «reload» (V.A. Kryukov, 2010)
- Natural resources and national wealth (A.S. Astakhov, 2010)
- Russian energy strategy for a period up to 2030 (2010)
- Energy strategy and European Union policy up to 2020 (2011)
- Arctic energy (2012)
- Eurasian energy doctrine (Conceptual project, 2013)
- Intelligent forecasting of electric power engineering involving the «active» consumer (2013)
- Russian power industry: post strategic view of energy development for 50 years to come (V.V. Bushuev, A.I. Gromov, A.M. Belogoryev, A.M. Mastepanov, 2016)



THEMATIC ISSUES

«Energy of the Future» series



- Energy cosmism of Russia (V.V. Bushuev, I.I. Kopylov, 2006)
- Fundamentals of ergodynamics (V.V. Bushuev, V.S. Golubev, 2002, 2012)
- Wind power engineering (P.P. Bezrukikh, 2010)
- Russian electric power industry – 2050 (A.A. Troitsky et al, 2011)
- Energy – water – evolution (2008)
- Gas hydrates: 250 year journey (A.M. Mastepanov, 2014)
- Intelligent forecasting (V.V. Bushuev, V.N. Sokotushchenko et al., 2016)

«Energy Industry in the «Nature – Society – Man» Global System» series



- Energy informational fundamentals of sustainable development (2005)
- New paradigm of sustainable development (A.A. Kharitonov, 2011)
- Hydrosphere energy (D.A. Solovyov, 2011)
- Effect of solar activity on socio political events in the 20th-21st centuries (N.V. Sokotushchenko 2013)

«Global Energy and Russia» series



- Prospects of the global transport sector ((U.Yu. Arslangulov, 2009)
- Energy origins and consequences of the world crisis in the 2010s (A.I. Gromov et al., 2012)
- Trends and scenarios of global energy development in the 1st half of the 21st century (A.M. Belogoryev et al., 2011)

«Energy – Economy – Ecology» series

(Energy of Russian Ecos, V.V. Bushuev)



- Energy and energy industry (2003)
- Energy potential and sustainable development (2006)
- Mass – energy – structure (2009)
- Energy and evolution (2009)
- Energy and fate of Russia (2014)

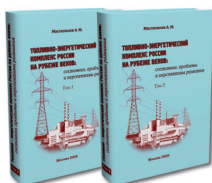


REFERENCE INFORMATION AND REVIEW ISSUES



- **Fuel and energy complex and economy of Russian regions**
(in 7 vol. A.A. Troitsky, 2007)

- **Russian renewable energy resource guide**
(P.P. Bezrukikh, 2007)



- **Russian fuel and energy complex at the turn of the century: condition, problems and development prospects**
(in 2 vol. A.M. Mastepanov, 2009)

- **Russian power industry: 1920 – 2020**
(in 3 vol., 2014 – 2015)



- **Russian power industry**
(selected articles and presentations in 4 vol., V.V. Bushuev, 2014 – 2018)



MONOGRAPHS



- **Russian power industry: a glimpse into the future (Energy Strategy – 2030 supporting materials)** (V.V. Bushuev, A.A. Makarov, A.I. Gromov et al., 2010)



- **Global power industry – 2050 (White Paper)** (edited by V.V. Bushuev and V.A. Kalamanova, 2011)



- **Oil prices: analysis, trends, forecast** (V.V. Bushuev, A.A. Konoplyanik, Ya.M. Mirkin et al., 2011)



- **Fuel and energy complex and Russian economy: yesterday, today, tomorrow** (edited by Yu.K. Shafranik, 2011)



- **Crisis of the 2010s and new energy civilization** (edited by V.V. Bushuev and M.N. Mukhanova, 2013)



- **Eurasian energy civilization** (V.V. Bushuev, A.M. Mastepanov, V.V. Pervukhin, Yu.K. Shafranik, 2017)



- **Innovative electric power industry – 21** (edited by V.M. Batenin, V.V. Bushuev, N.I. Voropay, 2017)



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