



Institute of Energy Strategy

www.energystrategy.ru



Globalization and Sustainable development. Institute of Energy Strategy (IES):



- **Coordination and Analytical Center** for development and monitoring of the Energy Strategy of Russia
 - **Center for Neural-Network Forecasting** of global oil and gas market trends and innovative development of the energy sector
 - **Scientific Center** for sustainable energy development methodology based on ergo-dynamic approach
 - **Consulting Center** for energy security and energy efficiency at the regional, branch and national levels
 - **Information and Statistical Center** aggregating data on the Russian energy sector
 - **Publishing Centre** (Energy Publishing House) which issues Institute periodicals (magazines and reference books), scientific, technical, public and business publications

Our mission

Vision Mission & Values

Participation In development of the energy policy of Russia on the basis of energy foresight and comprehensive approach to the energy sector within the Environment-Society-Man system



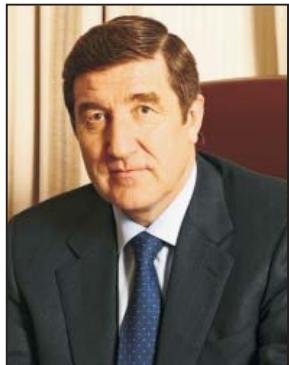


Our Management

Yuri K. Shafranik

Chairman of the Board of Directors of IES, Doctor of Economics

- Born in 1952 (in the Tyumen Region)
- In 1974 graduated from the Tyumen Industrial Institute
- 1974-1990: Mining engineer in the oil industry (moving up from an oil field engineer to the General Director of Langepasneftegaz Industrial Group)
- 1990-1993: Public official (Head of the Tyumen Region Administration Regional Council)
- 1993-1996: Minister of Fuel and Energy of the Russian Federation, supervisor of the Energy Strategy-2010 development
- 1997-2001: Central Fuel Company (Joint-Stock Company), Chairman of the Management Board
- 2001 to date: Head of SoyuzNeftGaz Group of Companies Chairman of the Higher Mining Council and the Council of the Russian Union of Oil and Gas Producers.



Vitaliy V. Bushuev

General Director of IES, Doctor of Engineering, professor



- Born in 1939 (in the Perm Territory)
- In 1961 graduated from the Kuibyshev Industrial Institute majoring in Electrical Engineering
- 1961-1989: Siberian R&D Institute of Energy (moving up from a junior research assistant to the Director of Institute)
- 1989-1991: Member of the Supreme Soviet of the USSR (Chairman of the Energy Sub-Committee)
- 1992-1998: Deputy Minister of Fuel and Energy of the Russian Federation (Chairman of the Energy Saving Committee of the Ministry of Fuel and Energy of the Russian Federation)
- 1998 to date: Institute of Energy Strategy, General Director, leader of the Workgroup for elaboration of the Energy Strategy - 2020 and 2030

OUR HISTORY

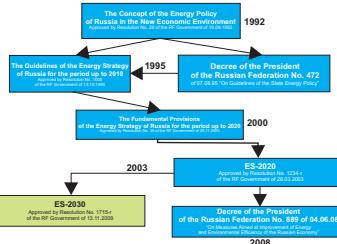


The history of the Institute is deeply intertwined with the history of formation of the Russian state long-term energy policy

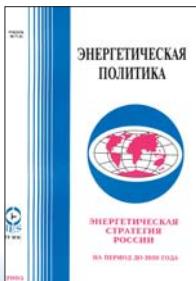
1992–1995 The start

The formation of the long-term energy policy began with the first steps of the new Russia as an independent state. In 1992 the Government of the Russian Federation approved The Concept of the Energy Policy of Russia in the New Economic Environment. In May 1995 the President of Russia by his Decree approved «The Guidelines of the Energy Strategy of Russia for the period up to 2010» and the same year the Government of the Russian Federation approved «The Fundamental Provisions of the Energy Strategy of Russia for the period up to 2010».

Formation of the Russian State Energy Policy



1998–2003 Institute of Energy Strategy and Energy Strategy-2020



Realizing the necessity of regular monitoring of the Strategy implementation and its adjustment from time to time in case of need, in 1998 the Russian Ministry of Fuel and Energy resolved to establish a new agency - Public Institution «Institute of Energy Strategy» (IES) as a coordinator for a comprehensive analysis and long-term forecasting of the Russian fuel and energy complex development in correlation with socio-economic development trends.

And as early as 2000, the Russian Government approved a new version of «The Fundamental Provisions of the Energy Strategy of Russia for the period up to 2020» prepared by an interdepartmental working group under IES coordination and by the Expert Board under the Russian Ministry of Fuel and Energy, and in 2003, the **Energy Strategy for the period up to 2020 (ES-2020)**.

OUR HISTORY

2004–2009 Widening scientific horizons

Since the moment of its foundation IES has been continuously extending its area of expertise according to its key role in the development of the primary document governing the national energy strategy.

The IES focused on such paramount issues as energy and sustainable development, global energy security, increasing energy efficiency of the economy and the energy sector in particular, development of non-fuel energy including renewables, as well as energy foresight.



In 2005 due to a vague legal status of the Institute within the structure of the Ministry of Industry and Energy (former Ministry of Fuel and Energy, then Ministry of Energy) its activity as a state agency was suspended, but the team continued its work within the framework of a newly incorporated entity – «Globalization and Sustainable Development. Institute of Energy Strategy» which retained its short name (GU IES).



In 2005 the Russian Union of Oil and Gas Producers and some key staffers of the IES became co-founders of the Institute. This promoted strengthening relations between the IES and The Russian Union of Industrialists and Entrepreneurs, The Russian Chamber of Commerce and Industry and key energy companies such as Rosneft, LUKOIL, TNK-BP, Gazprom.



In 2006 IES took an active part in preparation of the G8 Summit in St. Petersburg on global energy security issues and then in the follow-up of the Action Plan adopted at the summit.

In 2006-2009 IES, under the guidance of the Ministry of Energy of Russia and with participation of a wide range of scientific institutions and experts (Energy Research Institute of the Russian Academy of Sciences (RAS), Krzhizhanovsky Power Engineering Institute, Institute of Energy Systems of the RAS Siberian Branch, Institute of Oil and Gas Problems of the RAS and Institute of Petroleum Geology and Geophysics of the RAS SB) acted as coordinator of development of the **Energy Strategy of Russia for the period up to 2030** (ES-2030). On 13 November, 2009 the Government of the Russian Federation by its Decree No. 1715-r approved the Energy Strategy.



THE INSTITUTE TODAY

New strategic guidelines



- In 2010 the Institute, in cooperation with a wide range of scientific institutions and experts, completed elaboration of **Substantiating Materials to the Energy Strategy-2030** containing a scientific rationale of the energy policy of Russia for the years to come and predictive estimates of development of the Fuel and Energy Complex of Russia and its branches for the period up to 2030.

- Since 2009 the Institute has been working-out scenarios of sustainable development of the Russian oil sector for the period up to 2020.
- In 2010 we initiated a research to forecast global energy development for the period up to 2050.

Short-range plans of the Institute

- Participation in development of the Energy Security Doctrine of Russia.
- Analysis and forecast of global energy market conditions (demand and prices) in the short, medium and long term.
- Launching a scientific project «Energy of the future: innovative and social and humanitarian aspects».

Our achievements

According to the resolution of the Joint Session of the Management Board of the International Fuel and Power Association (IFPA), Board of the «Energy Sector and Civil Society» Strategic Issues Research Center and the Central Commission the Institute of Energy Strategy was attributed IFPA's **Balbakov Public Award** (Minutes No. 64 of 24 December, 2009).



The Award was received in the following nomination:

«For a major personal contribution to solving fundamental and applied problems of the Fuel and Energy Complex and for a vigorous social, scientific and educational activity in the field of sustainable development of the Energy Sector and the Society».

THE INSTITUTE TODAY

Our Staff

Our team is an alloy
of wisdom and youth:

A. A. Troitsky, 81 years old



P. P. Bezrukih, 74 years old



V. V. Saenko, 57 years old



A. I. Gromov, 32 years old



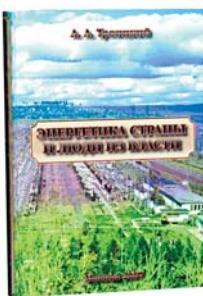
N.K. Kurichev, 22 years old



and more than 30 other top-rank professionals graduated from the Moscow State University, Moscow Power Engineering Institute, Gubkin Russian State University of Oil and Gas, Bauman Moscow State Technical University (MGTU), former employees of the State Planning Committee, of the Ministry of Economic Development of the Russian Federation and the Ministry of Energy of the Russian Federation.

We are confident that with our expertise and commitment we shall cope with the energy challenges of the future!

Historical memory

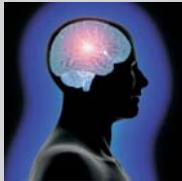


The Institute cherishes its traditions and publishes on a regular basis materials that make it possible to track the whole way of formation of the Soviet, and then of the Russian energy sector both from the point of view of official documents and in memories of living witnesses of the epoch.

- The historical origin of formation of the Energy Strategy of Russia and its main priority goals from energy security to energy diplomacy is reflected in official documents, working materials and commentaries thereto published by the IES in a two-volume publication «Energy Policy of Russia at the Turn of the Centuries» (2001).

- In 2007 a two-volume book «Energy of Russia (1920-2020)» was published. The first volume contains the GOELRO Electrification Plan (republished for the first time for the last 50 years), and the second volume accumulated all energy program documents of the Soviet Union and the Russian Federation.
- In 2007 the book «National energy industry and the powers that be» of A.A. Troitsky, one of the leading specialists of the Institute, was published. The book contains recollections of the author about national energy development for more than half a century, as well as his outlook on the modern state and future development of the Russian energy sector.

MAIN RESEARCH AREAS



Energy foresight

- In the field of generation, transformation and usage of different kinds of energy on the basis of general principles of ergodynamics and methodology of sustainable (socio-environmental, socio-technical, socio-humanitarian) development.

Trends and scenarios of the world energy sector development including:

- Geopolitical, social and economic trends
- Energy demand and resource supply dynamics
- Correlation of globalization and regionalization in the energy security field
- Market situation
- Ecological challenges and technological capabilities



Development and monitoring of the Energy Strategy of Russia on the basis of:

- Principles of resource-innovative development of Russia by virtue of an integrated efficient usage of the energy potential (national wealth)
- Expanded reproduction of gross energy potential (national wealth) of Russia

Energy sector as an infrastructural basis for social and economical development of Russian regions

- Development of principles of a well-balanced energy supply of Russian regions (at the federal, regional and municipal level) in compliance with the regional energy security requirements
- Regional energy security
- Energy, ecologic, and social efficiency of the energy sector



Sustainable energy development at the branch and corporate levels on the basis of:

- Public-private partnership
- Social priorities and economic interests of business
- Institutional and technological development of energy companies and enterprises.

MAJOR PROJECTS

Energy strategy of Russia for the period up to 2020 and up to 2030

- Monitoring of ES-2030 (since 2010)
- Development of the Energy Strategy of Russia for the period up to 2030 (2006-2009)
- Monitoring of ES-2020 (2004-2009)
- Development of the Energy Strategy of Russia for the period up to 2020 (2000-2003)



Regional energy strategies and programs



- The Tula region (2010)
- The Republic of Buryatia (2009)
- Energy strategy of Siberia (2005, in cooperation with the Institute of Energy Systems)
- The Republic of Komi (2005)
- The Yamal-Nenets Autonomous District (2002)

International energy cooperation

- Comprehensive analysis of Russia's participation in the global energy dialog (2010)
- Roadmap of international cooperation in the field of sustainable energy development (2008-2010, in cooperation with the International Sustainable Energy Development Centre)
- Development of fundamental provisions and analysis of the action plan of the Group of Eight (G8) in the area of global energy security, climate change, eco-friendly energy and sustainable development (2006)
- EU-Russia Energy Dialogue and prospects for building an integrated energy market (2005)



Energy, ecological and social efficiency of energy sector. Sustainable energy development



- Analysis of possible application of the sustainable development concept in Gazprom strategy (2010-2011)
- Development of the energy saving and energy efficiency improvement concept for Gazprom for the period up to 2011-2020 (2010)
- Development of recommendations on transition to environmentally sound energy of the future (2005)
- Development of the sustainable development concept for the gas sector of the Russian economy (2002)

New energy

- Substantiation of long-term priorities of renewable energy (2008)
- World biofuels markets development outlook (2008)
- Hydrogen energy development outlook (2008)





OUR PUBLICATIONS

Magazines



Energy policy (in Russian)

- 6 printed annual issues with appendices
- Published since 1998

The magazine covers key areas, goals and issues of the energy policy of Russia in terms of implementation of the Energy Strategy, energy efficiency of the Russian economy, progress of reforms in various branches of the fuel-and-energy complex, ecological and regional problems of energy development.



World oil and gas market (in Russian)

- 12 electronic issues per year
- 4 printed digests per year
- Published since 2001

Monthly analytical review containing subject survey of vital problems and monthly overview of the world oil and gas market (supply, demand, reserves, trade, prices, processing, operational analysis, forecasts, etc.).

Reference and analytical reviews



Fuel and energy complex of Russia (in Russian)

- Annual reference and analytical review
- Published since 2006

The review provides a multifaceted analysis of the Russian energy sector, its role and place within the global energy security system and within the Russian economy structure. The review also contains statistics on all the branches of the Russian energy industry (oil complex, gas and coal industries, power industry and heat supply) and their analysis.



Fuel and energy complex and economics of Russia: yesterday, today, tomorrow (in Russian)

- Annual reference and analytical review
- Published since 2001

The reference contains a wholistic retrospective analysis of interconnection between the Russian economy and energy industry, as well as Russian energy sector development and world oil and gas market environment forecasts.

Fuel and energy complex of Russia at the turn of the centuries - state, problems and outlook (A.M. Mastepanov, 2009) (in Russian)

Fuel and energy complex and economic of Russia regions (2007, 7 volumes) (in Russian)

Reference book on renewable resource of Russia (2007) (in Russian)

Fuel and energy of Russia (2003-2005) (in Russian)



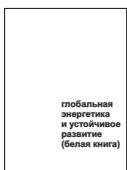
OUR PUBLICATIONS

Scientific compilations and monographs



Russian oil industry – scenarios of balanced development. Draft (in Russian)

The book analyses the current state of the Russian oil industry, provides a forecast of its development for a period up to 2030 and identifies parameters of the oil sector development (oil production, oil and associated gas refining, oil and oil products transportation, forecast of the need for capital investments for reconstruction and development of production capacities).



Global energy and sustainable development (White book) 2009 (in Russian)

The book deals with the research of the current status and sustainable development trends of the global energy sector as a critical item of the worldwide agenda of the 21st century. A close consideration is given to the problem of an innovative energy-environment-economy development.



World oil and gas market: innovative trends 2008 (in Russian)

The book presents an up-to-date opinion on the current state and development trends of the world oil and gas market. Using a system approach, the authors demonstrate that world oil prices are determined not only and not so much by the demand-and-supply balance but rather by financial conditions on the expectations market.



Russian Energy Industry (1920-2020) 2008 (in Russian)

The compilation contains the most significant materials relating to the preparation of important strategic decisions in the energy sphere beginning with the GOELRO Plan and ending with the Concept and the Energy Strategy of Russia for the period up to 2020.



World energy: state, problems, perspectives 2007 (in Russian)

The book is essentially a comprehensive and systematical analysis of the world energy sector including state energy and ecological policy, issues of competitiveness and pricing, development and improvement of foreign trade in energy goods, state management of the energy sector, functioning of the global and regional energy markets.



Russian Energy Industry. Development Strategy (Scientific substantiation of energy policy) 2003 (in Russian)

Scientific substantiation of the energy policy of Russia and forecast estimates of development of the energy industry and its branches for the period up to 2020 in correlation with macroeconomic forecasts of social and economic development of the country. Basic provisions of this document have been used in the Energy Strategy of Russia up to 2020 approved by the Government of the Russian Federation in 2003.

OUR PUBLICATIONS

Scientific and popular-scientific publications

Series:

«Energy within the «Environment – Society – Man» global system» (in Russian)

- Sustainable development and national wealth of Russia
- Human capital for social and humanitarian development
- Local endogenous disturbance
- Social and humanitarian development: Russia and the world
- Mathematical foundations of ergodynamics
- Energy and informational foundations of sustainable development (by examples of Russian regions)
- Parameters of social and environmental development of Russian regions
- Ergodynamics of the society



«Energy of the Russian Oikos» (in Russian)

- Energy and evolution
- Mass – Energy – Structure
- Energy potential and sustainable development
- Energy and energy sector



«Energy of the future» (in Russian)

- Energy – Water – Evolution
- Social and environmental development
- Energy sector – 2050
- The UNIVERSE and the EARTH. Electromechanical interaction
- Energy cosmism of Russia
- Fundamentals of ergodynamics



OUR PUBLICATIONS

Business analytics

Series:

«Global energy and Russia» (in Russian)



- World transport sector outlook
- Russian Arctic zone. Hydrocarbon resource: problems and way of solution

«Energy policy» (appendix to the magazine) (in Russian)



- National wealth and quality of life: Russia and the world
- Energy strategy of Russia for the period up to 2030
- Increasing mineral raw materials usage efficiency: facets of the problem
- Oil and gas sector: the institutional system needs to be reloaded
- Changing world: European energy policy. EC energy and climate policy approved by the European Commission
- Concept of the Energy Strategy of Russia for the period up to 2030 (Draft)
- Energy dialog European Union – the Russian Federation. EU development vector
- Strategy of the Russian oil and gas complex development for the period up to 2010-2015
- Energy strategy of Russia for the period up to 2030

«World oil and gas market» (appendix to the magazine) (in Russian)



- Oil prices and oil market structure: past, present, future
- Financial and market aspects of oil price behavior.

OUR PARTNERS

We are ready to cooperate



Institute of Global Problems of Energy Efficiency and Ecology (IGPEE)

Main areas of activity: Analysis and forecast of development trends of the «Environment – Society – Man» system and the role of the energy factor in the global climate and economic processes. Scientific, technical, and legal support of energy efficiency and ecological safety efforts.

www.lgpee.z4.ru



«World Energy» Expert and Consulting Center (WECC)

Main areas of activity: Analysis of global energy raw markets, branches of the world energy sector, development of scientific cooperation with energy companies, state authorities, financial institutions, technology providers and other analytical and expert organizations.

www.wecc.ru



«Energy initiative» Laboratory (LabENIN)

Main areas of activity: Analysis and forecast of the world oil and gas market and the Russian stock market for energy companies. Studying conceptually new development paths of the energy industry taking into account the value of various kinds of energy.

www.labenin.z4.ru



Energy Publishing House

Main areas of activity: Publication of scientific, technical, public and business literature. From manuscript to printed book.

www.laz-energy.z4.ru

Information and technological center SPEE



Main areas of activity: Development and implementation of information technologies in the field of analysis, revelation of hidden trends and forecasting of data by virtue of synthesis of classic, connectionist and fractal models in the energy sector and the economy as a whole.



OUR PARTNERS

Ministries and departments:

- Ministry of Energy of the Russian Federation
- Ministry of Economic Development of the Russian Federation
- Ministry of Finance of the Russian Federation

Non-governmental organization:

- Union of Oil and Gas Producers of Russia
- Russian Union of Industrialists and Entrepreneurs (RUIE)
- International Fuel and Power Association (IFPA)
- Russian Union of Scientific and Engineering Associations
- Russian Chamber of Commerce and Industry (RF CCI)
- Association for Energy Policy and Energy Economics (AEPEE)

Research and educational institutions:

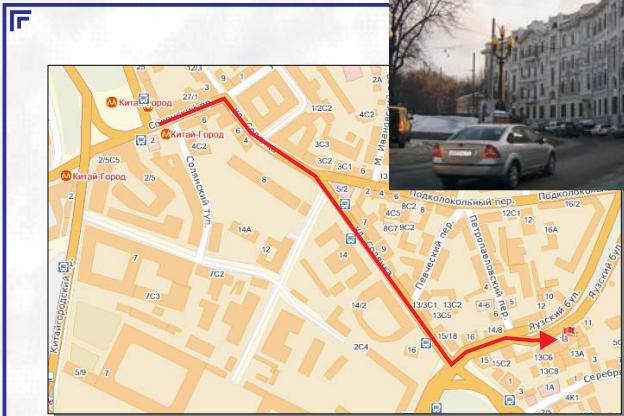
- Gazprom Promgaz R&D Centre
- NII Gazeconomika Gas Industry Economy and Management Research and Development Institute
- Gazprom VNIIGAZ Natural Gases and Gas Technologies Research and Development Institute
- L.A.Melentiev Institute of Energy Systems of the Russian Academy of Sciences Siberian Branch
- Energy Research Institute of the Russian Academy of Sciences
- Krzhizhanovsky Power Engineering Institute
- Power Engineering R&D Centre
- Gubkin Russian State University of Oil and Gas
- International Sustainable Energy Development Centre
- Energy Policy Educational Research Center under St. Petersburg State University of Economics and Finance

Business community:

- LUKOIL
- Rosneft
- Gazprom
- TNK-BP
- Gazprom neft
- Tatneft
- Surgutneftegaz
- Soyuzneftegaz Group of Companies

International organizations, research centers and companies:

- International Energy Agency (IEA)
- PricewaterhouseCoopers
- Ernst&Young
- IHS CERA
- Korea Energy Economics Institute (KEEI)
- The Economic Research Institute for Northeast Asia (ERINA)
- Nissan Motor Manufacturing (UK) Limited.



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