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The Romanian Energy Strategy 2016-2030 with an Outlook to 2050

Objectives, approach, deadlines

Radu Dudău

Counsellor to the Energy Minister

Coordinator of the elaboration process

Fundamental strategic objectives



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- Energy security
- Competitive energy markets and economic competitiveness
- Decarbonization and environmental protection

Other strategic objectives



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- Maintaining a well-diversified and balanced energy mix
- Decarbonizing the energy system through market mechanisms
- Facilitating investments in energy efficiency and decarbonization
- Interconnectivity and regional market integration
- Protection of vulnerable consumers and mitigation of energy poverty
- Strengthening institutional and administrative capacity in the energy sector
- Turning Romania into a regional energy hub

Committees



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- **Council of Directors** – ministerial level
- **Advisory Council** – reputable experts of the academia, industry and regulatory agencies
- **Project team** – specialists of the Energy Ministry + representatives of relevant ministries

Council of Directors



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1	Costin Borc	Economy Minister, Vice-PM
2	Victor Grigorescu	Energy Minister
3	Mihnea Constantinescu	Ambassador-at-large for Energy Security
4	Cristian Bușu	State Secretary, En Min
5	Corina Popescu	State Secretary, En Min
6	Aristotel Jude	State Secretary, En Min
7	Dragoș Pîslaru	Counsellor to the PM
8	Vasile Iuga	PwC
9	Radu Dudău	Counsellor to the Energy Minister

Advisory Council



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1	Niculae Havrileț	ANRE, President
2	Sorin Gal	ANRM, Director
3	Petru Văduva	Transgaz, Director General
4	Ion Sterian	Transgaz, President of the Administration Council
5	Octavian Lohan	Transelectrica, Director
6	Virgiliu Ivan	Transelectrica, Director
7	Răzvan Purdilă	Transelectrica, Director
8	Dumitru Chisăliță	Natural gas expert
9	Corina Murafa	Energy governance expert
10	Laurian Lungu	Energy economics expert
11	Valentin Ionescu	Counsellor to the Minister of Work
12	Mihnea Crăciun	EBRD, Deputy Director, energy projects
13	Antonia Colibășanu	Bucharest University, geopolitics expert
14	Carmencita Constantin	AmCham, <i>clean coal</i> and carbon emissions expert
15	Andrei Țârnea	Aspen Institute, Director, energy diplomacy
16	Alexandru Pătruți	Mineral resources expert
17	Ioana Gheorghiaide	BCR, Ex Dir Public and Infrastructure Finance
18	Victor Athanasovici	Bucharest Polytechnic University, cogeneration
19	Virgil Mușatescu	Bucharest Polytechnic University, energy efficiency
20	Adrian Badea	Bucharest Polytechnic University, thermal energy

Project team



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1	Radu Dudău	Counsellor to the En Minister, Coordinator	Coordination
2	Valeriu Ivan	Counsellor to the En Minister	Methodology
3	Elena Popescu	General Direction of Energy Policies, Director General	Nuclear energy
4	Anca Dobrică	General Direction of Energy Policy, Counsellor	EU policies
5	Daniela Barbu	General Direction of Energy Policy, Service Chief	Mineral resources
6	Cornel Zeveleanu	General Direction of Oil and Gas, Service Chief	O & G
7	Liviu Stoican	General Direction of Oil and Gas, Service Chief	O & G
8	Dan Agrișan	Counsellor to the Energy Minister	Legal
9	Cătălina Nedelcu	Chief of Staff, State Secretary C. Bușu	Inter-institutional relations
10	Corneliu Condrea	General Direction of Oil and Gas, Director General	O & G
11	Carmen Pătruț	Gen. Dir European Affairs and Intl Cooperation, Counsellor	European affairs
12	Mihaela Preda	General Direction Privatisation and Management of State Participations in Energy, Service Chief	Company restructuring, National Investment Plan
13	Felicia Răcășanu	General Direction of Energy Policies, Service Chief	Renewables, en efficiency
14	Cristina Necula	General Direction of Energy Policies, Counsellor	Coordination, secretariat
15	Angelica Bobe	General Direction of Energy Policies, Counsellor	Coordination, secretariat
16	Iulia Tănăsescu	General Direction Privatisation and Management of State Participations in Energy, Expert	Acquisitions
17	Aura Dumitru	General Direction Privatisation and Management of State Participations in Energy	Legal
18	Roxana Oprea	Economics Direction, Expert	Acquisitions

Involved ministries



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- Ministry of Environment, Water and Forests
- Ministry of Economics, Trade and Relations with the Business Environment
- Ministry of Public Finances
- Ministry of Transports
- Ministry of Agriculture and Rural Development
- Ministry of Regional Development and Public Administrations
- Ministry of European Funds
- Ministry of National Defense
- Ministry of Foreign Affairs
- Ministry of Internal Affairs
- Ministry of Work, Family, Social Protection and Elderly People
- Ministry of Public Consultation and Social Dialogue

Stages



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- 1) Update of the *Current status of the Romanian energy system* – finalized on February 15

- 2) Specialist workshops – between February 29 and April 15, 2016.
 - Oil and gas
 - Electricity (natural gas, coal, hydro, renewables, nuclear)
 - Energy efficiency, thermal energy, and demand side management
 - Energy governance
 - Energy security and energy diplomacy

About 200 energy experts will be involved.

Outcome: integrated qualitative analysis of the Romanian energy sector



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Stages

4) Quantitative modeling: to be finished by August 15

Scenarios:

- Baseline – assumes freezing current policies
- Policies 2030 Max – assumes compulsory EU 2030 targets (40/27/27)
- Policies 2030 – assumes 40% decarbonization target and keeps technological neutrality

Quantitative modelling: input



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- ***Economic growth***, aggregated and sectoral
- ***Demographic tendencies*** – demographic growth, urbanization, etc
- ***Income projections*** – average, distributed
- ***CO2 certificates price***
- ***Evolution of technology costs*** – PV, wind, biogas, biofuel, storage, efficient lighting, CCS, nuclear
- ***Price for oil, gas, coal, and uranium***

Quantitative modelling: output



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- Projection for production, supply and demand by types of primary and secondary energy
- Projection for end energy demand by economic sector
- Needed investments by sector
- Projected CO2 emissions
- Projection for energy poverty level
- Evaluation indicators for energy policies
- Resilience limits by sector to supply shocks

Final deadline

September 15, 2016



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