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Global Energy

- 1) Global energy sufficiency and supply. Energy self sufficient and not self sufficient countries. Global prospects of energy depletion.
- 2) World markets of hydrocarbons (oil – crude oil and oil products), natural gas (LNG, shale gas development), coal).
- 3) Electricity generation. Thermal and Nuclear energy. Renewables.
- 4) Total Primary Energy Supply and Total Final Energy Consumption indicators – country comparisons.
- 5) Global proportions of renewable and nonrenewable sources of energy (case study of Russia, US, China, Japan, South Korea, European countries). Feasibility and prospects of renewables meeting global energy demands.
- 6) World energy markets: geopolitical and geoeconomic factors of cooperation.
- 7) Energy resources trade: net energy exporting and net energy importing countries. Dynamics of energy trade – transformation of energy exporters to energy importers (case study: China, Indonesia) and visa versa (Vietnam). Energy imports dependency (Japan, South Korea case study).
- 8) Investments and capital flows into energy sectors worldwide: structures and key trends
- 9) New energy technologies development (shale gas, gas hydrates, etc.)
- 10) Bilateral and multilateral forms of energy cooperation
- 11) Energy security at national, regional and global levels
- 12) Energy crises since the 1970s till the Fukushima nuclear disaster (its impact on energy supply shortages)
- 13) International energy organizations.