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.