



Final exam questions for Geography Master of Science (MSc) students

“B” Renewable energy specialization

1. Meteorological factors which affect hydropower utilization (precipitation, hydrological cycle).
2. Technologies and instruments of hydro- and ocean power utilization (power plants, turbine types).
3. Status of hydro- and ocean power among the renewable energy sources and within the energy mix of the world. Environmental impacts of hydro- and ocean power utilization.
4. Meteorological factors which affect solar power utilization (spatial and temporal patterns of solar irradiance).
5. Technologies and instruments of solar power utilization (PV panels, solar thermal collectors and other instruments).
6. Status of solar power among the renewable energy sources and within the energy mix of the world. Environmental impacts of solar power utilization.
7. Technologies and instruments of wind power utilization.
8. Methods used in wind climatology.
9. Status of wind power among the renewable energy sources and within the energy mix of the world. Environmental impacts of wind power utilization.
10. Types, sources and technologies of biomass power.
11. Status of biomass power among the renewable energy sources and within the energy mix of the world. Environmental impacts of biomass power utilization.



12. Status of geothermal power among the renewable energy sources and within the energy mix of the world (present situation future perspectives).
13. Interpretation of geothermal energy and geothermal potential. Analytical and numerical modeling in planning of geothermal energy utilization.
14. Principles and tools of environmental legislation.