ENERGY AND CLIMATE CHANGE PROGRAMME

The Norwegian Water Resources and Energy Directorate (NVE)
Stakeholder Consultation Zagreb, November 7, 2018

Gunn Oland
Program Director

Mljet National Park
About NVE

- Manages Norway’s water and energy resources
- Regulates and promotes an efficient energy market and efficient use of energy
- National authority for floods and landslides
- National institute for hydrology
NVE's Working Areas

- Water Power
- Wind Power
- National Grid
- Distribution Grids
- Export
- Import
- Flood
- Landslide
- Waterway
- Industrial Consumption
- Domestic Consumption
- NORDPOOL SPOT
- POWER SUPPLIERS
NVE Around the World
EEA/Norway Grants and NVE

- Part of commitments under the EEA

- NVE is Donor Program Partner (DPP) for six countries, Bulgaria, Slovakia, Croatia, Romania, Poland and Hungary.

- Program responsible in Georgia for MFA as Program owner.

- We work mainly within the areas of renewable energy and water resource management, including energy efficiency, power market development, flood preparedness, hydrology and climate change adaptation.
Energy and Climate Change Programme

- NVE as Donor Program Partner
  - Main contact: Mrs. Gunn Oland
  - Extra contact: Mr. Bjørn Aulie

- Adviser within the program areas:
  - Renewable energy
  - Energy efficiency
  - Energy security
  - Climate change mitigation and adaption
Donor Project Partnerships

- Project Promotors must be registered in the recipient countries
- Which groups that can apply (are eligible) are defined in each call
- Companies and institutions from the donors can be partners
- Partners can come from all sectors: public sector, private sector, NGOs or research institutions.
- Intention letter/draft agreement for being partner to be attached to the application
- Tasks and budget to be decided between the partners
Electricity Production in Norway

- Total installed capacity for electricity: 32,500 MW. Average annual generation: 134 TWh.

- 96% hydro power - 4% thermal and wind.

- Largest hydropower producer in Europe, sixth largest in the world.
Hydropower in Norway

- More than 1600 hydropower plants
- Reservoir storage capacity: 86.5 TWh
Geothermal energy in Norway

- Installed effect for shallow geothermal heat about 3.500 MW

- About 26,000 heat pump facilities based on exploitation of the shallow geothermal heat.

- Including all types of heat pumps – also air to air and air to water – 15 TWh produced heat out of 6 TWh electricity – totally 750,000 heat pumps
District heating and cooling in Norway

- 5,2 TWh District heating, all major cities.
- 50 % from Waste (waste to energy incineration plants)
- 20 % from Bio
- 15 % from Heat pumps
- 10 % from Electricity
- 5 % from Fossil
- Increasing demand for both district and local cooling
Motivation to become a Norwegian partner will be different between type of companies.

- Cost coverage
- Competence building for own employees
- Exchanging its market area
- A first step for later potential ownership interests in the recipient countries
- Contributes to fulfillment of Norway's bilateral intentions related to EEA programs.