

Norsk Energi

Endre Ottosen
Sofia, 10 October

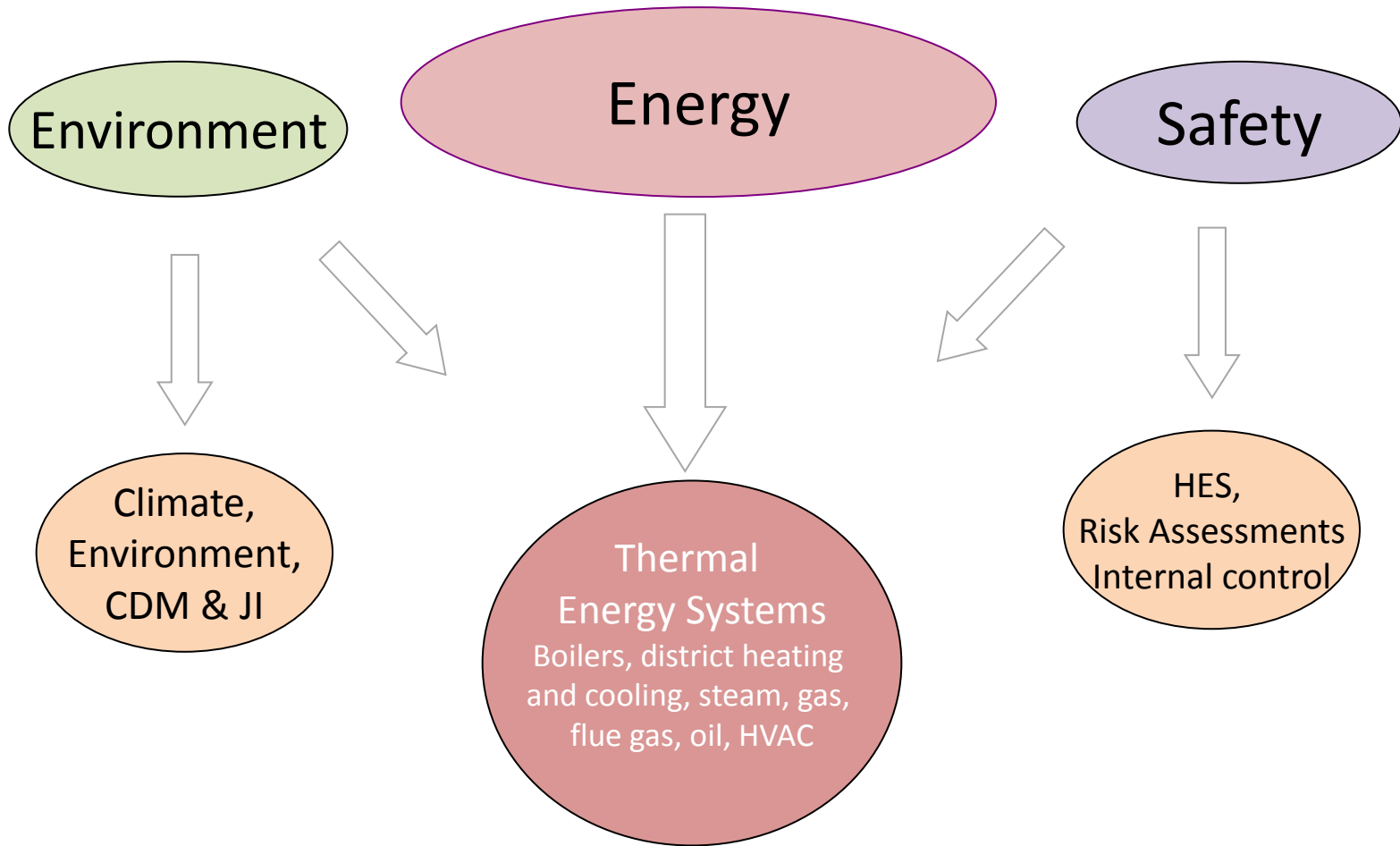
The association Norsk Energi



- Established in **1916** under the name Norwegian Steam Boiler Association
- Founded by the **wood processing industry** to handle energy related issues on behalf of the members
- 90 energy producing and -consuming members
- 80 highly skilled employees
- Consultancy, engineering services, analysis and training
- One of Norway's leading centers of expertise on thermal energy systems

Efficient, environmental friendly and safe utilization of energy

Business segments

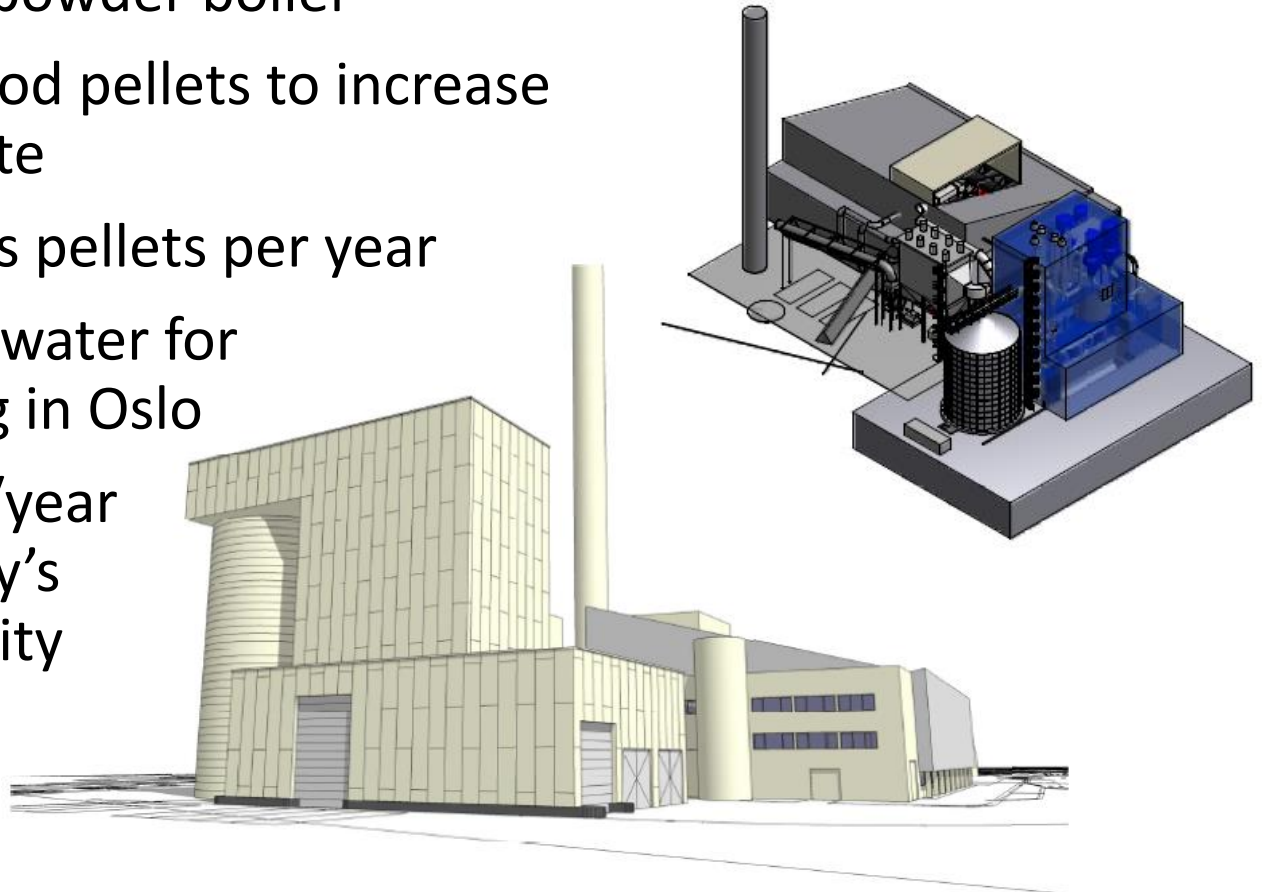


Norsk Energi's projects



Haraldrud wood powder boiler

- 56 MW wood powder boiler
- Pulverizing wood pellets to increase combustion rate
- Ca. 45 000 tons pellets per year
- Producing hot water for district heating in Oslo
- 175-200 GWh/year
15 % of the city's total DH capacity



Biomass Fuel Switch Program in Arkhangelsk, North-West Russia

- Support to the Biomass Energy Program in Arkhangelsk County
- Mapping of biomass resources and potential for conversion to bio energy in two pilot municipalities
- Development of business plans for fuel switch projects in three municipal boiler houses



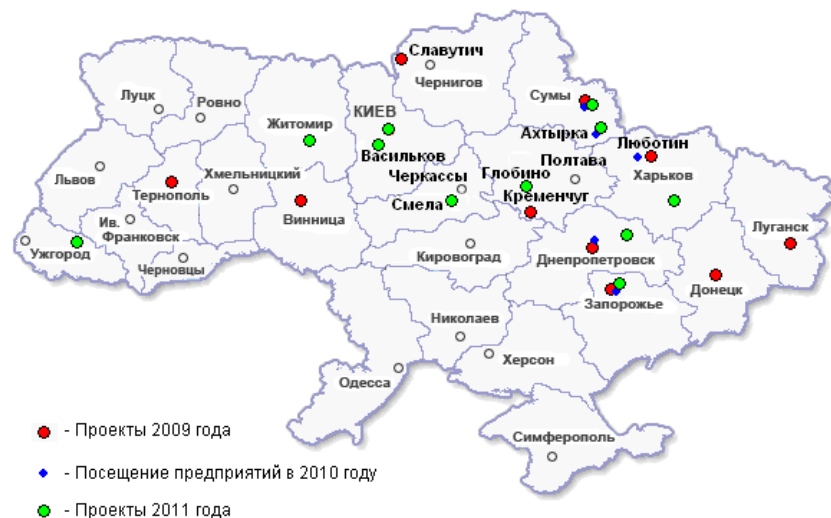
Sustainable Buildings in Azerbaijan

- Capacity Building Program on RES and EE in the building sector
- Norsk Energi responsible for RES utilization
- Local counterpart: State Agency for Renewable Energy
- Feasibility study on utilisation of solar heating, solar PV and heat pumps at sports arena, south of Baku
- Training on renewable energy technology, business planning, investment potential, commercialising, barrier assessments,



Norwegian – Ukrainian Climate Co-operation on EE and RE projects development

- Grant from the Norwegian Ministry of Foreign Affairs
- Initiated and Implemented by Norsk Energi.
- Capacity building and project development
- Feasibility studies developed for 15 projects
- Landfill gas, bio gas, wood pellets, waste heat recovery, hydropower, CHP, wind power etc.



Program Components

- Pilot micro-electricity generation
- **Energy efficiency measures in public buildings**
 - changing of fuel and boilers, replacement of heating installations and systems
 - increased use of renewable energy for heat generation: heat pumps, biomass, solar and geothermal
- Production of fuels for heating based on biomass
- **Capacity building activities**
 - aimed at state and municipal administrations in
 - on energy efficiency and renewable energy

ENERGY ENVIRONMENT SAFETY

The effective, environmentally friendly and safe utilisation of energy

Is reducing CO₂ emissions important for you too?

NORSK  **ENERGI**

www.energi.no

endre.ottosen@energi.no