This is Norsk Energi

Short presentation of the company



- 65 energy and environment experts with BSc, MSc and PhD degrees
- Consultancy, engineering services, analysis and training
- Independent from equipment suppliers and manufactures





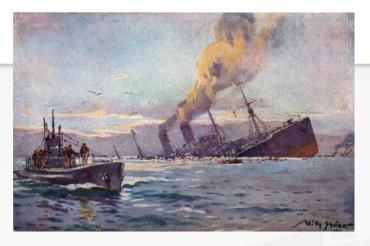




Established in 1916







The first world war (1914-1918) was Norways first energy crisis. British embarge on import of coal caused a crisis in Norwegian industry. The industry applied two strategies to meet the crisis:

- 1. Energy efficiency
- 2. Fuel switch from coal to local energy sources (wood fuel and hydropower).

Therefore, Norsk Energi was established in 1916 as a centre of competence on steam boilers and industrial energy efficiency.







500 projects for 300 customers every year



- Feasibility studies
- Detail engineering
- Project implementation
- Comissioning
- Operation
- Tecnical advisory assistanse
- Environmental advisory assistance
- > Training of operators
- International capacity building programs

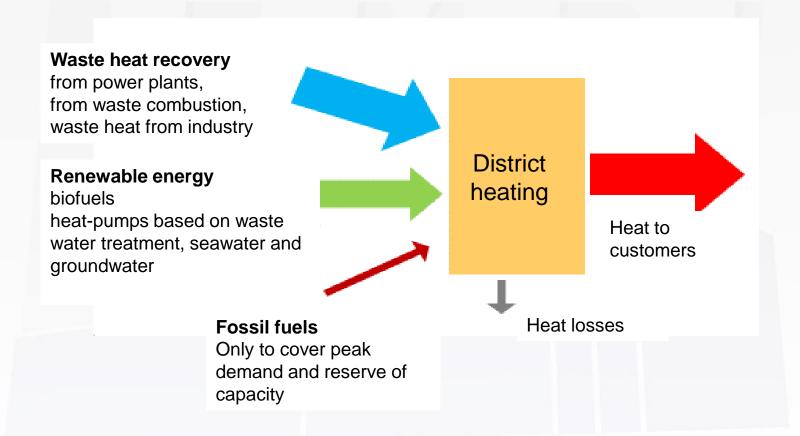






Example: What we do in the district heating sector







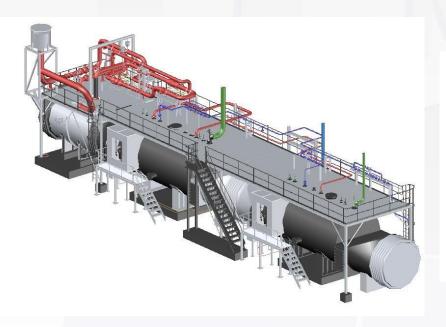


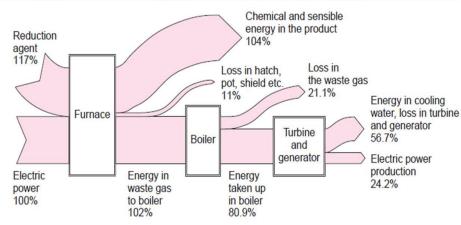


Example: What we do in energy intensive industry



Design of waste heat recovery units











Organised as an industry association



- ▶ 65 industry members
- > 300 costomers
- > 500 projects yearly



The Board of Norsk Energi 2016-2017









> Head office in Oslo

➤ Local offices and representation in 5 other Norwegian cities









Norsk Energi's International Projects

eea norway grants grants

NW-Russia bioenergy, DH, solar

Strezhevoi power plant

Tadsjikistan small hydropower

Ukraine EE municipal buildings

Poland, energy management

Azerbaijan EE building sector

Armenia CDM, small hydropower

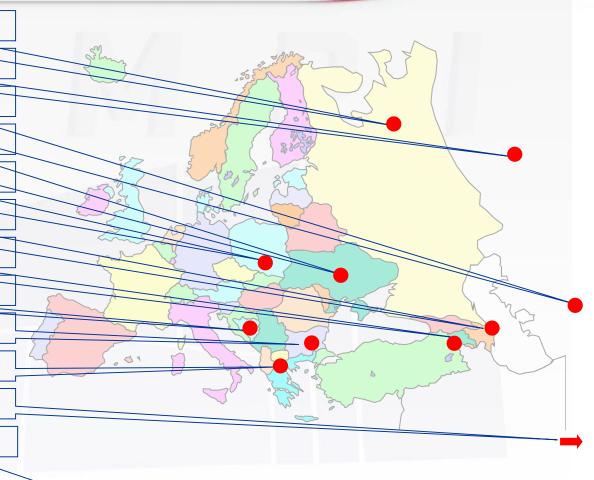
Bosnia CDM district heating sector

Bulgaria, industrial energy efficiency

Macedonia, Industrial Emission
Directive

China WHR ferroalloy industry

Africa, energy policy advice









Why Norwegian companies establish energy management?

Many Norwegian companies implement energy management because:

- 1) Establishment of energy management systems according to ISO-50001 is a requirement in the emission permits for large companies.
- 2) Industry may get state support for energy management:
 - ➤ Simplified energy management 1-10 GWh/year < 200.000 NOK
 - Ambitious energy management > 10 GWh/year < 1 mill NOK</p>
 - Grants from Enova < 50 % of approved costs</p>
 - Ambition to save more than 10 %
 - Several other requirements







Energy management project portfolio 100 projects since 2013 norway grants

Industry

Elkem

Yara

Orkla

Ewos

Hunton

Hydro

Findus

Jotun

Diplom IS

+++



Elkem







District

Statkraft Varme

Hafslund Varme

Statkraft

BKK Varme

Bioenergi

Lyse Neo

EWOS GROUP

Eidsiva





Oil and gas

Oseberg B





Statoil



KONGSBERG TEKNOLOGIPARK

Other companies

Kongsberg Haukeland Hospital BIR waste incineration EGE waste incineration





















