Non-wires alternatives

Demand side management can decrease the costs in the Norwegian power grid

Bergen, April 16th 2018
Ola Øyan, Senior analyst
Fremtiden er elektrisk
Several measures could solve the problem

New power lines and transformers

Non-wires alternatives

We should find in the best solution for the energy system as a whole.
We need to understand the peak load periods.
Moving consumption from day to night

Price signals from power markets and grid tariffs provides important incentives.
Decrease electricity demand for longer periods

Price signals from power markets and grid tariffs + special incentives and/or agreements.
The non-wires alternatives seem economically attractive
The non-wires alternatives seem economically attractive.

- **Delay 2 BNOK grid investments for one year**: 
  - Million NOK per year

- **Total estimated cost of non-wires alternatives**

The optimal solution include a large number of users and affects several grid companies.
Non-wires alternatives could be further used in Norway

- Many opportunities to reduce the peak load.
- Could reduce costs at all grid levels.
- We have to find practical solutions to utilize NWA at all grid levels.

Statnett seeks to utilize the demand side further in our planning and operations.