

Overview of the NKS-R programme and summary of ongoing activities

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NKS-R Programme Manager



NKS – Nordic Nuclear Safety Research

- Has for decades supported Nordic co-operation in nuclear safety research
- The aim is to maintain and strengthen Nordic competence in the area of nuclear safety research,
- And to develop close informal networks between scientists, workers and end users from the relevant Nordic authorities, organisations, industries and universities



Owners and co-financiers

Owners and Main Financiers



Statens strålevern
Norwegian Radiation Protection Authority



Co-financiers



FORSMARKS KRAFTGRUPP



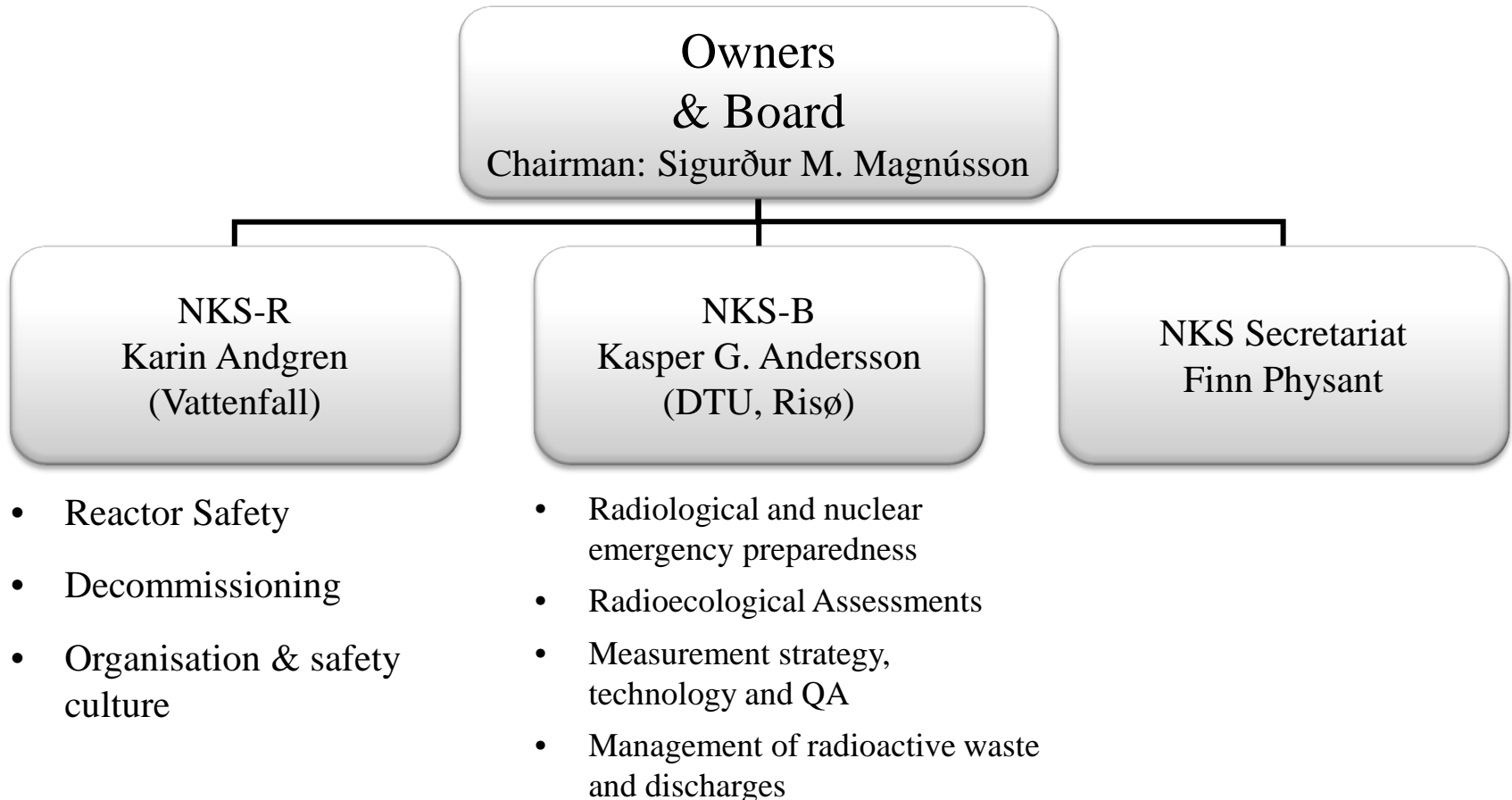
- ett företag i E.ON koncernen



FENNOVOIMA



Organisation



Funding

NKS funds:

- Research activities
- Seminars and workshops
- Travels for young scientists

} Through the annual open Call
for proposals

www.nks.org



Funding Requirements:

- Preferably at least three Nordic countries (minimum two)
- Results of NKS activities are publicly available for free
- 50 % of the funding from own contribution

Web page



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Sign up for NKS Newsletters and Newsflashes....

Newsletters are usually published biannually; Newsflashes are distributed as soon as new information is available.

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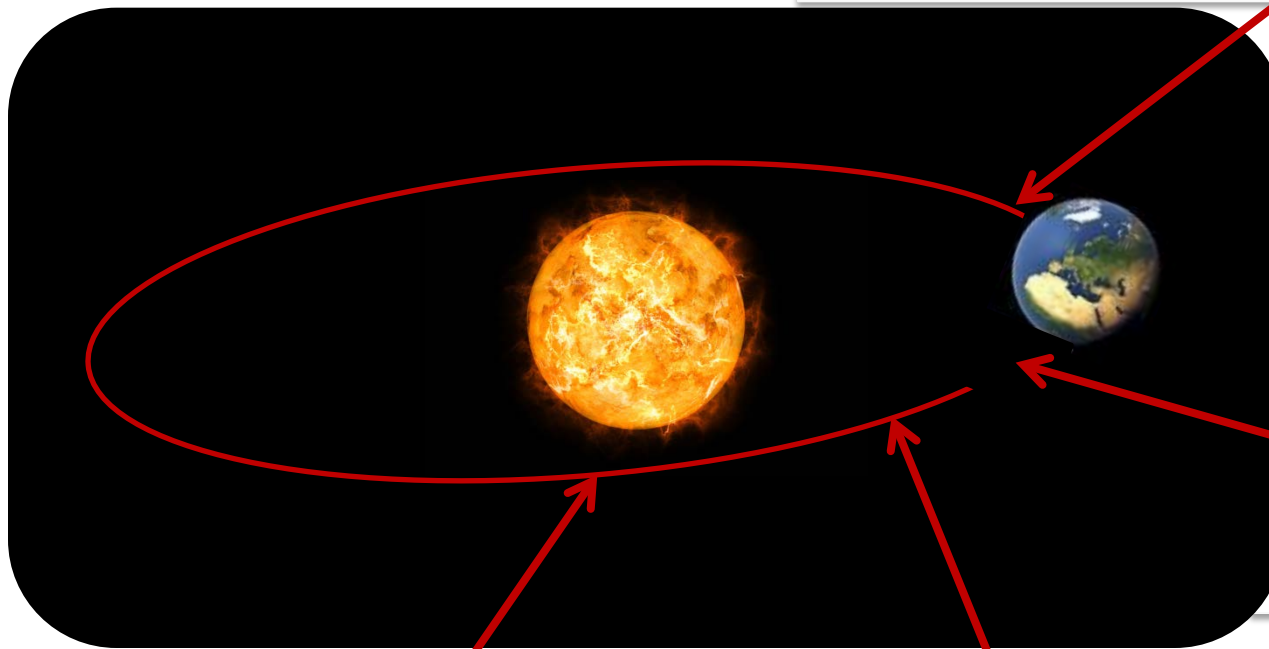
Welcome to NKS
Nordic Nuclear Safety Research

Latest Publications | [Search reports](#)
Available free of charge

Next Seminar | [Upcoming Seminars](#)

The NKS year

Funding decision at board meeting in January



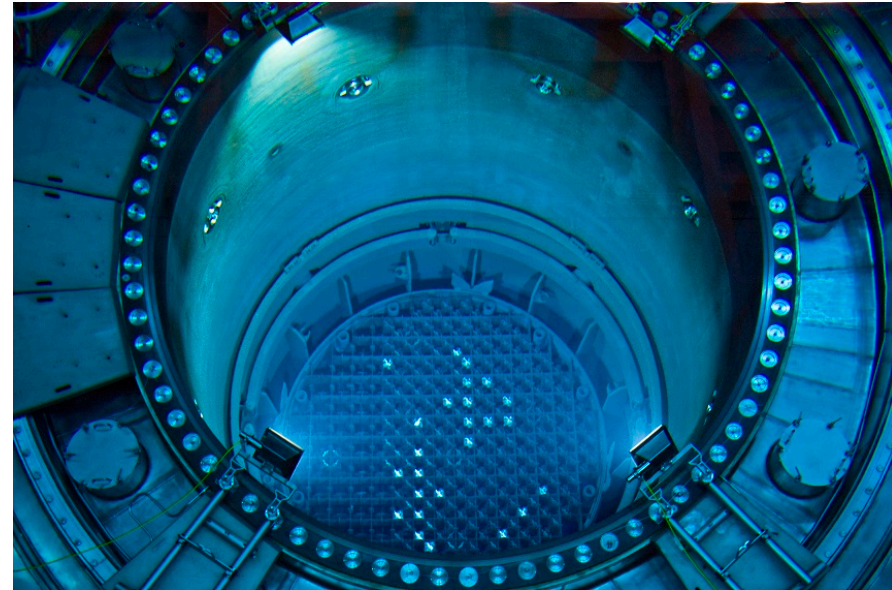
The programme managers
prepare funding
recommendations (Nov-
Dec)

Call for Proposals opens September 1,
with an expected budget of 3.5 MDKK
(for each of the programme areas).

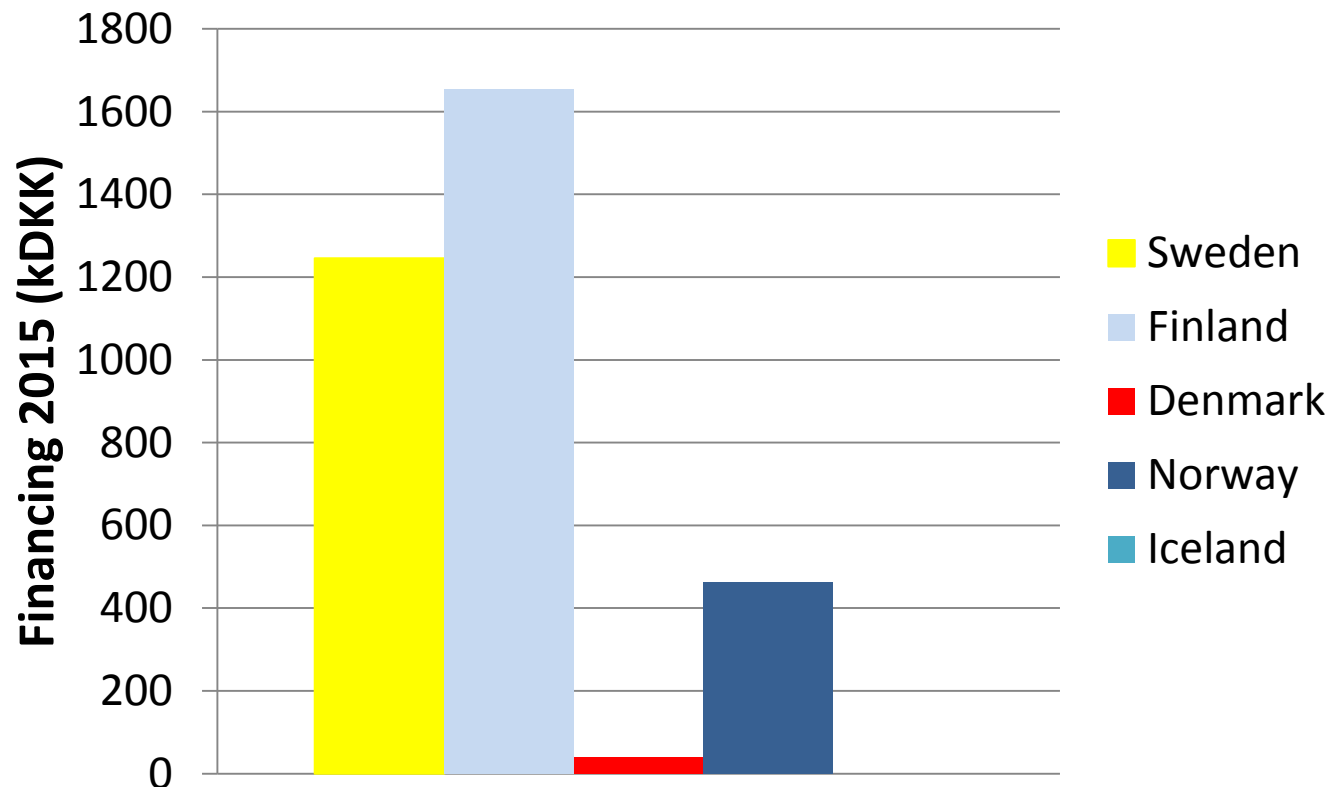
The members of the board
evaluates the proposals (Oct-Nov)

Research areas of the NKS-R programme

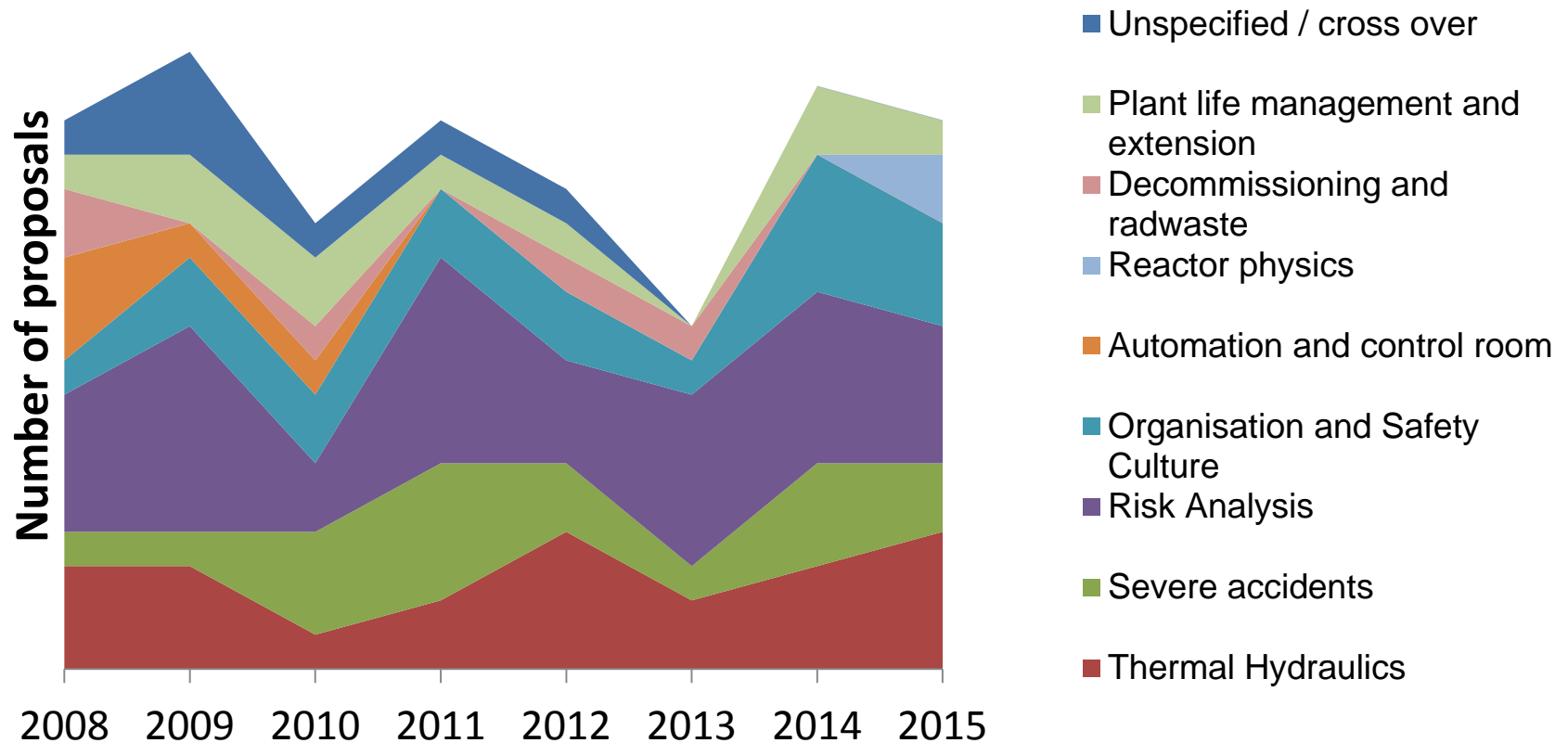
- Severe accidents
- Thermal hydraulics
- Reactor physics
- Probabilistic methods/ risk analysis
- Decommissioning
- Plant life management
- Organisational issues and safety culture



8 projects with a total budget of 3400 kDKK

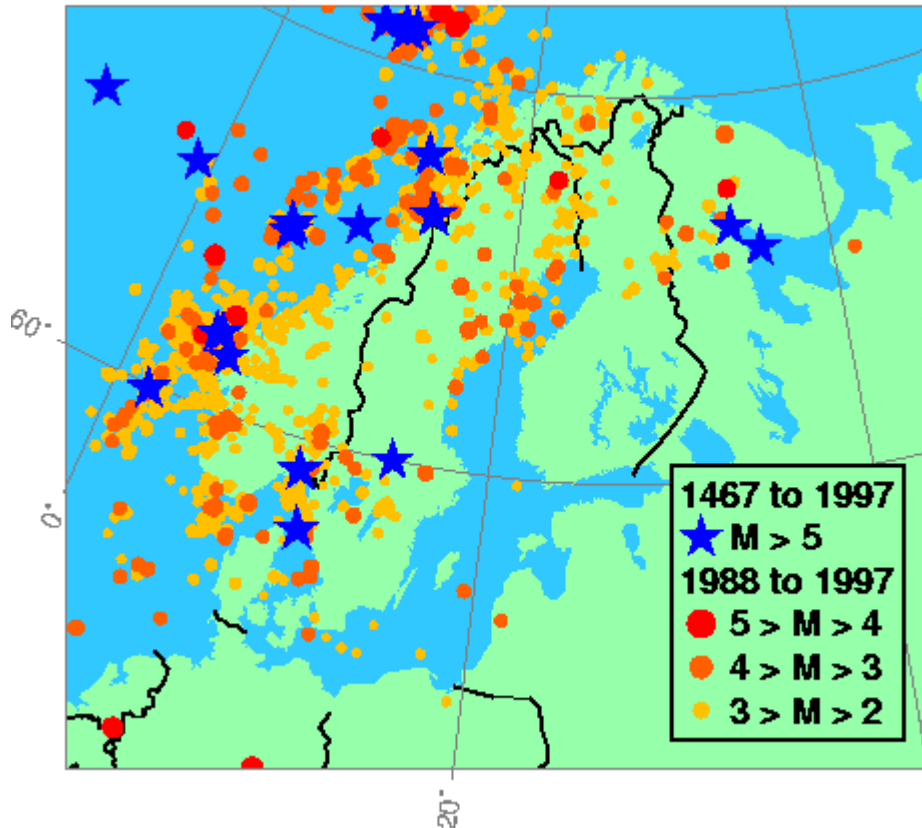


NKS-R proposals per area 2008-2015



Ongoing activities 2015: ADdGROUND

Earthquake location and magnitude



Research area: Risk analysis

Potential of numerical methods to supplement empirical earthquake observations.

Project partners:

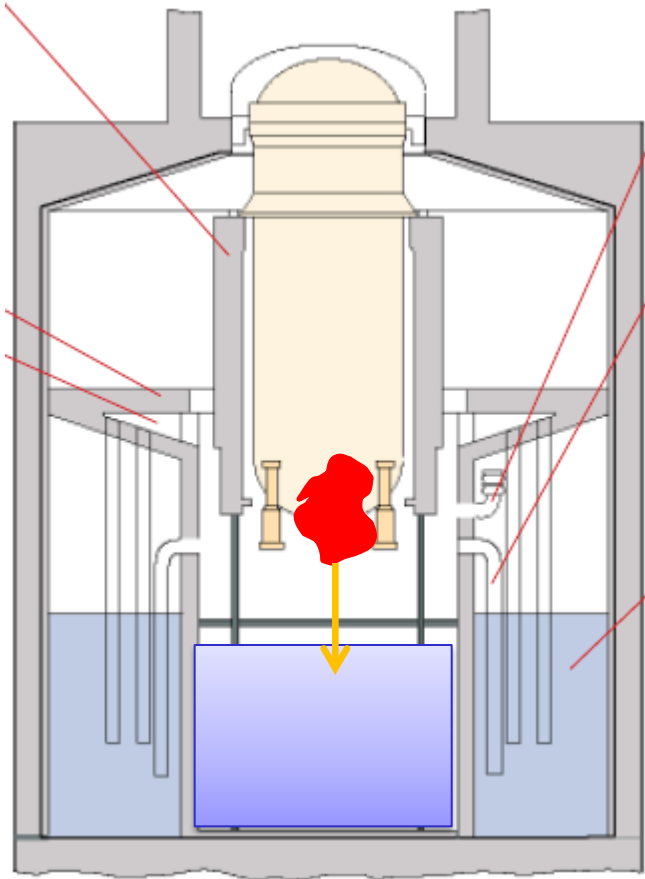
VTT Technical Research Centre, Finland

University of Helsinki, ÅF, Aalto university, Finland

Uppsala university, Sweden

Geological Survey of Denmark and Greenland, Denmark

Ongoing activities 2015: DECOSE



Research area: Severe accidents

Debris coolability and steam explosion in Nordic BWRs

- Is the debris bed coolable?
- Is there a risk of steam explosion?

Experimental and numerical investigations

Project partners:

KTH Kungliga Tekniska
Högskolan, Sweden

VTT Technical Research Centre,
Finland

Ongoing activities 2015: LESUN

Research area: Organisational issues and safety culture

Learning from successes in nuclear power plant operation to enhance organisational resilience.

Case studies at Ringhals and Loviisa

Develop methodology to identify successful performance

Project partners:

IFE Institute for Energy
Technology, Norway

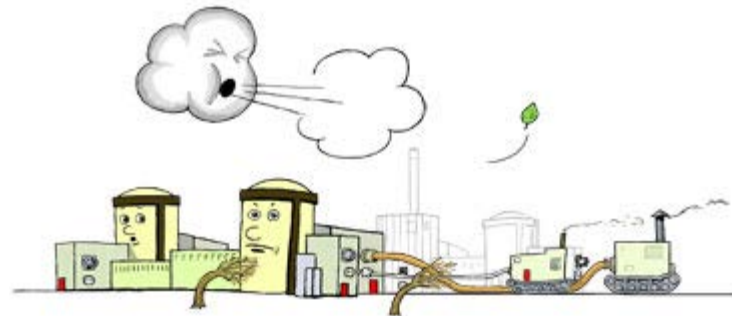
VTT Technical Research Centre,
Finland

Vattenfall (Ringhals NPP),
Sweden



Nordic perspectives of Fukushima: Where are we now and where do we go?

Joint NKS-R and NKS-B Seminar,
Stockholm, 12-13 January 2016



Thank you for your attention!

For more information on the NKS-R programme,

Contact karin.andgren@vattenfall.com