



# Nordic Grand Solutions

The call  
**Nordic Energy Solutions for the Green Transition**  
is now open

<https://www.nordicenergy.org/article/first-call-nordic-grand-solutions-programme/>

# The aim: To provide solutions for the major energy challenges towards carbon neutrality

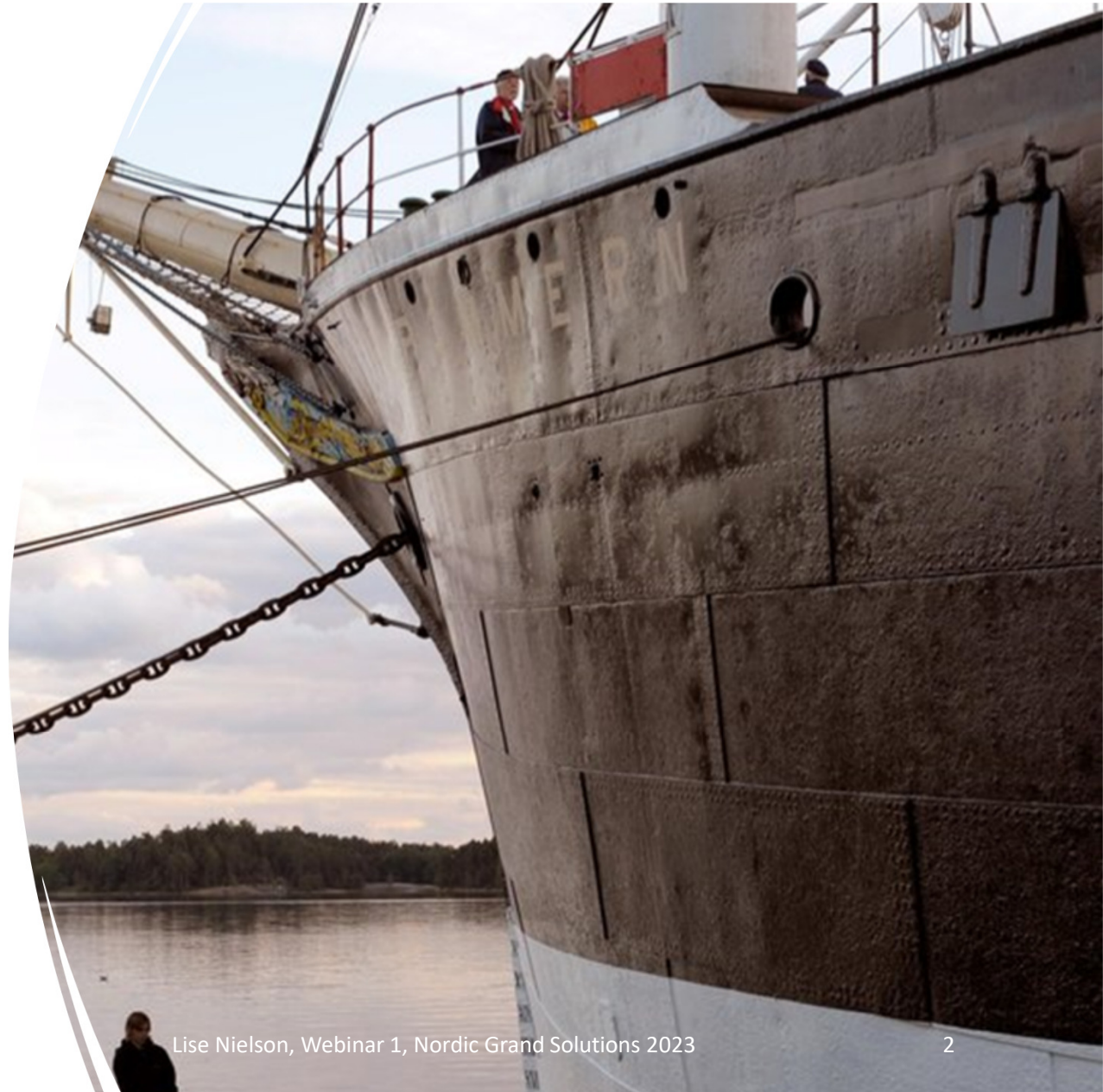
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- Knowledge foundation identifying the best solutions in the green transition
- Knowledge-creation supporting energy and climate decision making in the Nordics

10. maj 2023

Lise Nielson, Webinar 1, Nordic Grand Solutions 2023

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# Nordic energy challenges in focus

The results should point towards the most promising energy solutions that will allow the Nordic region to lead the green transition from the front.

- The energy trilemma
- Tomorrow's energy solutions
- A nature inclusive green transition
- Sustainable remote energy systems





# These angles are the themes for Nordic cooperation:



Smart energy systems –  
Several functions optimized  
simultaneously in the overall  
system of energy flow



Sustainable energy –  
Sustainable use of resources  
and climate responsible energy



Green transport – Green  
transition of the transport  
sector value chain, from  
energy resources to energy  
storage, -transport and -use



Energy markets – Design and  
development of future energy  
markets for efficient utilization  
of resources, across Nordic  
borders and energy systems



Energy and society – Social  
sustainability, public  
acceptance and fair  
distribution in the green  
transition



# Security of supply and just transition are at the core of how to become CO<sub>2</sub>-neutral

## Tilbageblik

### Hvorfor er elpriser blevet interessante?

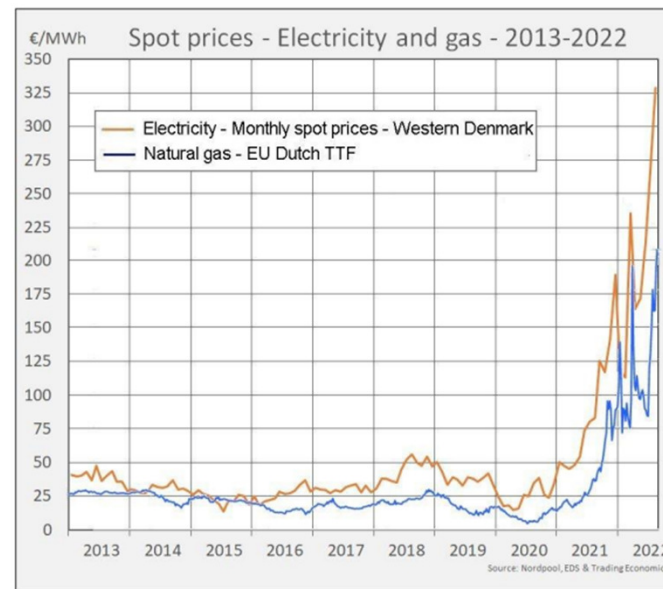
De har jo længe været stabile.

Det begyndte før krigen i Ukraine med **overskud af el** i 2020 og lave priser.

I 2021 blev hele Europa ramt af svigtende vind og nedbør. Udtørrede floder ramte også store kraftværker, som fik for lidt kølevand. Resultatet var **underskud af el**.

Så bredte panikken sig, og på energibørserne steg priserne til uanede højder.

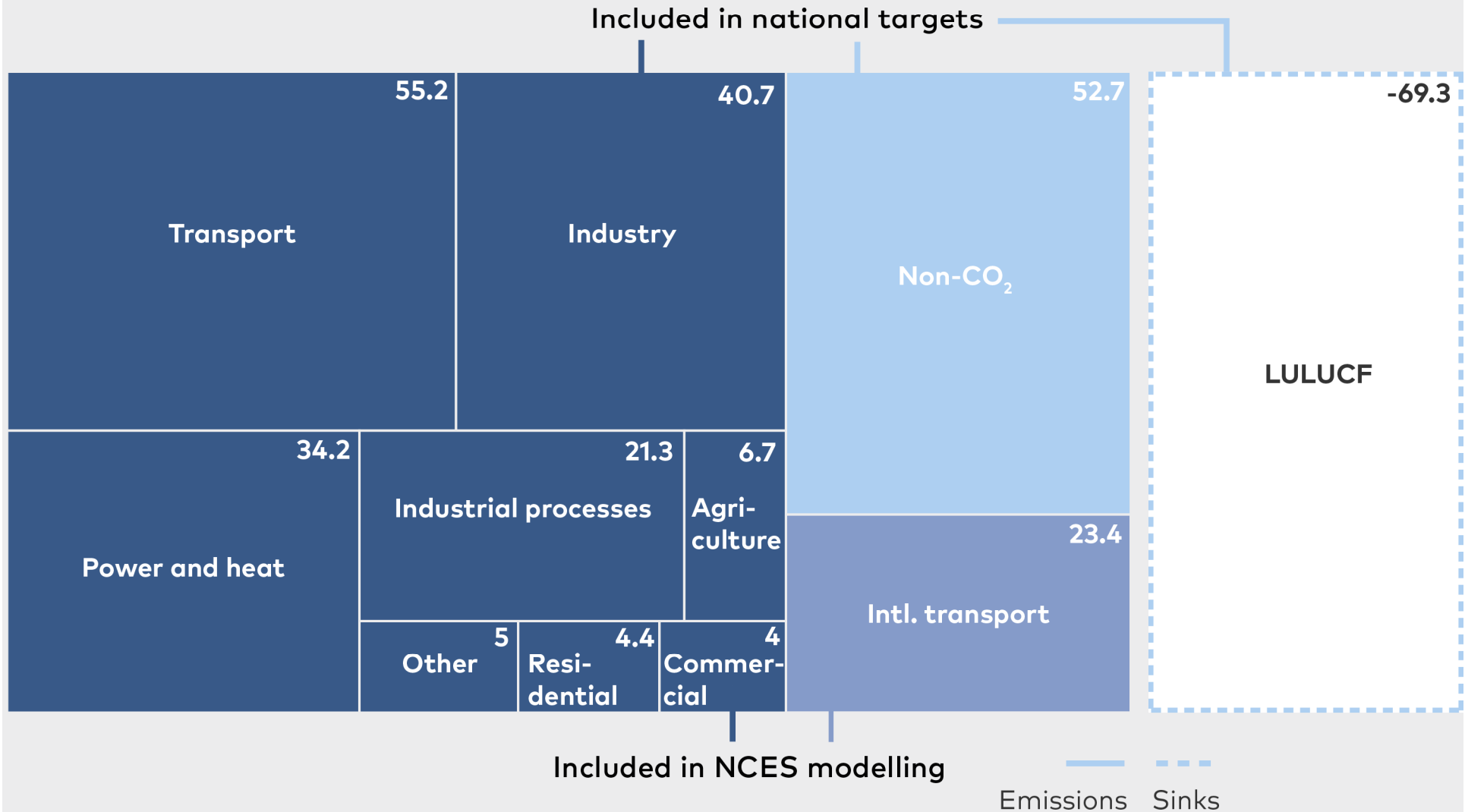
Normale variationer gav store skulps.



Normal climate variations led to uncertainty of supply and increasing electricity prices



# The Nordic GHG emissions covered by national targets and the emissions covered by the NCES project



# Programme components

- The programme is a combination of a technology neutral call and a series of workshops
  - To foster a co-creation atmosphere amongst the funded family of projects and the research teams
  - To build a strong interest in a Nordic stakeholder audience ahead of the recommendations and results of the projects
- Grant between 8 and 25 MNOK
  - Good size for both quality of research effort and extent of impact
  - We expect to fund 5-10 projects
- Iceland, Norway, Finland, Denmark, Sweden and Faroe Islands
  - Minimum of 3 countries represented in the consortium
- Nordic added value is key – additional evaluation criteria



Support of Nordic  
Council of  
Ministers's  
activities relating  
to energy

- **Working group for Renewable Energy (AGFE)**
- **Electricity-Market Group (EMG)**
- **Working group for “Carbon Capture, Utilisation and Storage” (CCUS)**
- **Nordic Energy Equality Network (NEEN)**
- **Network for CO2-neutral islands**





# Nordic added value



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# Eligibility criteria

<https://funding.nordforsk.org/portal/#call/2985/details>

- At least 3 Nordic countries
- Minimum of 10 % in-kind contribution of total budget
- Meet State-aid restrictions
- Stated starting and final TRL within the range of 2 to 8
- Maximum duration of 3 years
- Minimum funded budget of 8 million NOK
- Maximum funded budget of 25 million NOK

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