

#### Premise for this talk

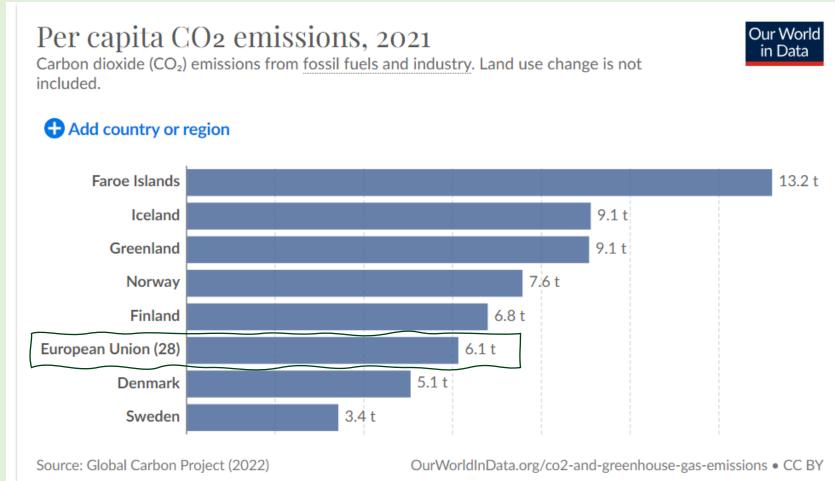
- The Nordic countries are not green
- No scientific evidence that citizens initially are negative towards energy parks in their back yard – NIMBY is a myth

Dr Kristian Borch, Nordregio. November, 2024. Luleå



### The Nordic is not green

The energy system in the Nordic is based on fossil fuels





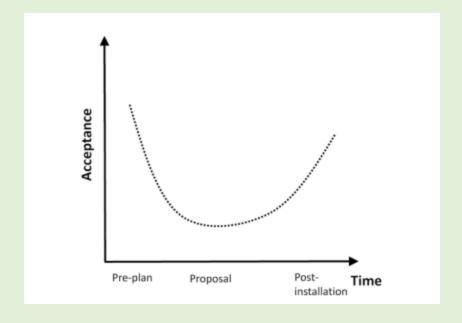
# Local attitude towards wind farms are always negative – or are they?

Getting used to it?

Or is the planning process a traumatic experience spoiling an otherwise positive attitude?

The planning, development and deployment of renewable energy facilities must start from the social context to realise locally meaningful, beneficial and sustainable projects.

(Rudolph & Clausen 2021)



Sketch of U-curve of wind farm attitudes, based on Wolsink (2007) and Ellis and Ferraro (2016)





#### RENEWABLE ENERGY

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#### Wind power and the NIMBY-myth: institutional capacity and the limited significance of public support

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#### Abstract

In many countries, the development of wind power capacity has proceeded more slowly than expected. Levels of public acceptance are usually considered primary indicators of support for wind power within society. Surveys generally show strong overall public support for wind power, while concrete projects are felt to suffer from the Not-In-My-Backyard (NIMBY) syndrome. This paper questions the significance of these outcomes. It argues that other barriers to wind power implementation exist beyond attitudes among the population. The argument is made that institutional factors have a greater impact on wind energy facility siting. We will discuss two examples of how institutional factors shape the level of support when implementing wind power. © 2000 Elsevier Science Ltd. All rights reserved.

Keywords: Wind power; NIMBY; Institutions; Institutional arrangements; Siting



#### Policy acceptance

Of technologies
By the public
By policy makers

#### Community acceptance

Procedural Justice
Distributional justice
Trust

#### Market acceptance

Consumers Investors Traders



#### Policy acceptance

Of technologies
By the public
By policy makers

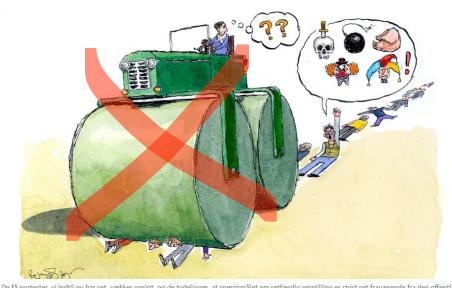
#### **Decoupling**

Due to lack of direct (local) democracy

#### Lack of Community acceptance

Procedural In-Justice
Distributional In-justice
Recognitional In-justice

Lack of Trust in authorities & private business



De få protester, vi indtil nu har set, vækker opsigt, og de tydeliggør, at spørgsmålet om retfærdig omstilling er stort set fraværende fra den offentlige debat. Det samme gælder i høj grad de politiske tiltag. Tegning: Rasmus Sand Høyer

#### Market acceptance

Consumers Investors Traders





# Can the Nordics afford undemocratic energy transitions?



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# Can the Nordics afford undemocratic energy transitions?



To år siden Fosen-dommen:

Aksjonister har sperret av kryss på Karl Johan 90.000.000 NOK was offered to the 6 affected reindeer herder families to compensate their loss from building Fosen wind power park

- they were rejected



## New roles to recouple energy actors

#### Policy acceptance

From marketisation to more public regulation From technocratic to collaborative

#### **Community acceptance**

From convenience to engagement From consumers to energy citizens





#### Market acceptance

From maximising profits to increased emphasis on non-financial objectives such as environmental goals and CSR



### Civic renewable energy is already a Nordic success



District heating supplying 1.843.774 households in Denmark with 76% fossil free heat- Consumer owned and non-profit

Hvide Sande Fjernvarme

Procedural Justice
Distributional justice

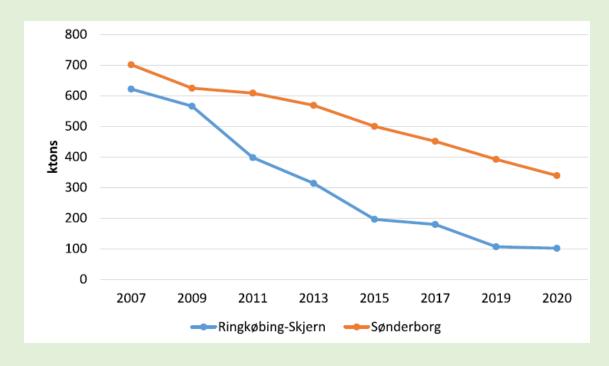
Small hydropower in Norway producing 9 TWh renewable energy – owned by landowners paying revenue tax to the community

Ytre Alsåker kraftverk i Ullensvang

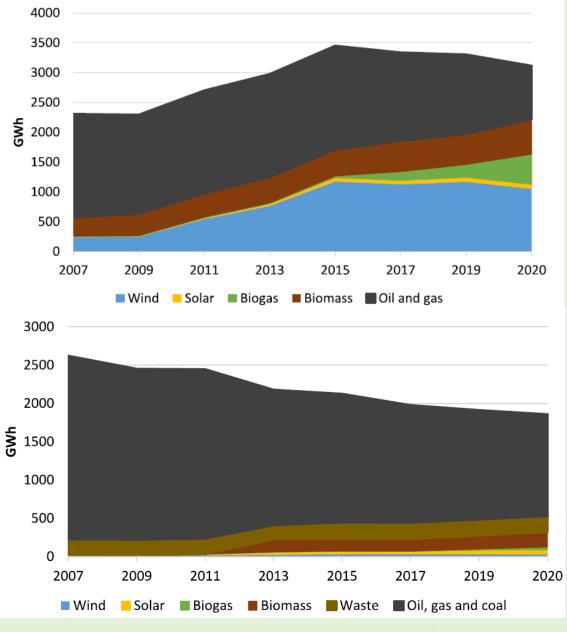




### A hope for sociotechnical solutions



Energy-system-related CO2 emissions



Source for annual energy consumption

# The Nordic countries & communities have an integrated energy market, but different approaches to energy planning – we can learn from each other

- Norway has a very centralized planning procedure: Development of renewables can be swift, but is not sensible local interests and rights
- Denmark has a very decentralized planning procedure, which requires capability that often is not available locally
- Only Finland has successfully implemented citizen energy communities on a significant scale
- Sweden has a long track record of high carbon taxes



Three basic values related to democracy & institutional setups

### A. Personal freedom and private self-determination

Privatisation Virtual markets Voluntary land redistribution Surplus sharing Compensation Local co-ownership Involving interest groups In-depth interviews Conflict Joint Common citizens mediation ownership projects Preference Citizens **Focus** Public surveys councils groups Opinion workshops Citizens panels polls Expert Consulting Public Consensus decisions conferences local connoisseurs hearings

B. Co-determination and participatory rights

Votes

C. Objectivity and respect for arguments

MOTKULTUR FAGLIG SNAKKA KRAFT

#### Det skal ikke lønne seg å ofre lokaldemokratiet



Av Kristian Borch og Katrina Rønningen, Ruralis – Institutt for Rural- og Distriksforskning

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Conclusion: Using democratic tools will probably lead to a more swift and less problematic green energy transition

