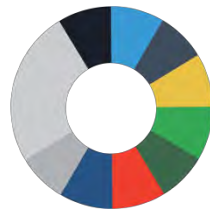


The need for cables: why grids?

Einar Wilhelmsen

ZERO



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Challenges:

Local acceptance

Grid capacity inland

Lack of long term renewable
policy

Diverging interests



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Our approach



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Two studies on interconnectors:

Lesson 1: debate and expectancy must be harmonized on both sides of the cable!

Lesson 2: We lack a long term strategic direction in Norwegian renewable energy policy.



JOINT NORWEGIAN-GERMAN DECLARATION

For a long-term collaboration to promote renewables and climate protection

2013

[Home](#) [Joint Declaration](#) [Motivation](#) [Questions & Answers](#) [Events](#) [Links](#) [Contact](#)

Joint Declaration

Joint Norwegian-German Declaration

for a long-term collaboration to promote renewables and climate protection

We see a great opportunity in strengthened collaboration between Norway and Germany in the area of renewable electricity as a concrete means to facilitate climate protection.

We are a broad coalition of NGOs, business associations, trade unions, development organisations and other civil society actors from Norway and Germany.

In advance of the 2013 national elections in both countries, we call upon politicians to:

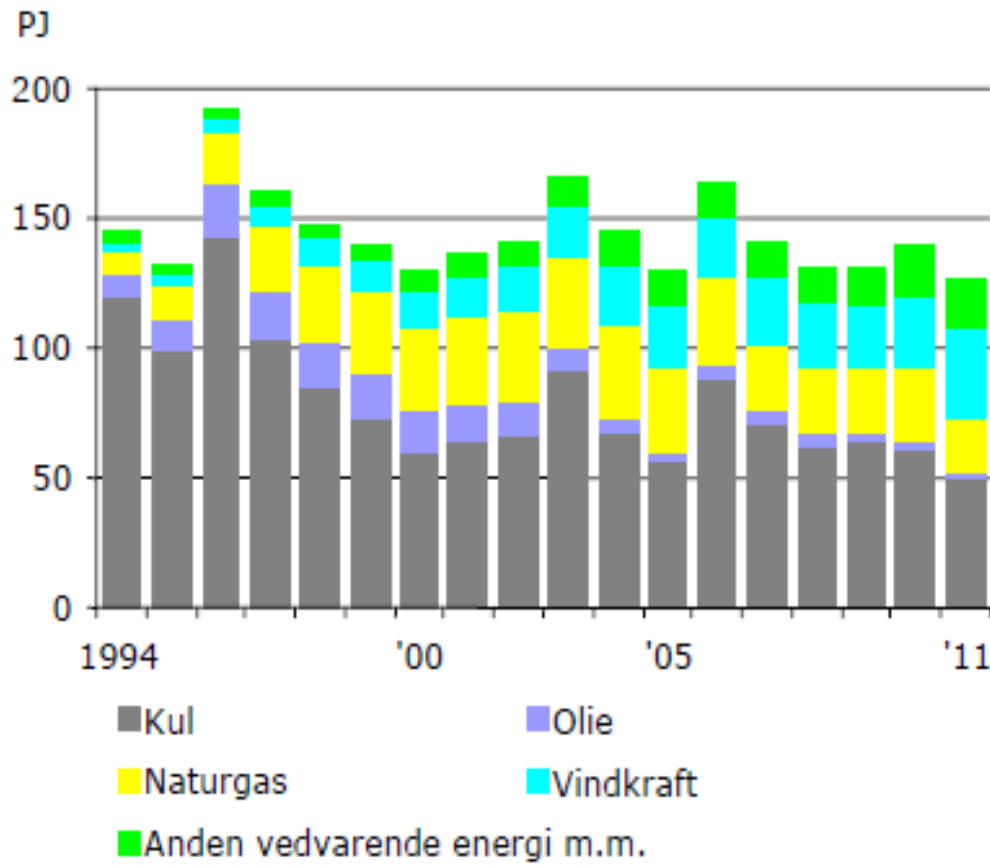
- Confirm the existing commitments and strengthen our countries' engagement for climate protection, energy efficiency, and renewable energy deployment; (1)
- Continue their good collaboration, and establish a common, ambitious, long-term perspective in the area of renewable electricity, making good use of the synergies in the mutual interest of both countries, and in a spirit of good collaboration with neighbours and European partners;
- Maintain a balanced view on the trade-offs between local nature conservation, biodiversity, and climate protection, including attention to the local impacts of proposed projects (e.g. onshore or offshore wind farms, biomass, small-hydro, inland or cross-border cables, the increased oscillation of water levels in existing reservoirs) but also the local and global risks and impacts of non-action and of equivalent alternative measures elsewhere, in the same country or in other countries;
- Pursue solutions that fulfil these aims at a minimum long-term cost for society and nature, maintaining high levels of power system stability and increasing the long-

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Why do we need cables? Denmark !

Elproduktion fordelt efter anvendt brændsel



50 more years with Norwegian «coal-power»?

- Utsirahøyden
- Ekofisk
- Havis
- Skrugard
- Snøhvit





Advice for country of Norway for freshwater fish:

Pregnant and breast feeding women should not eat: pike, perch (> 25 cm) or trout (> one kg).

Other persons should not eat any of these species more than once per month.

Norwegian Food Safety Authority

Summary

- More cables are key to GHG reduction, but this is not understood in the general debate.
- More cables delivers more renewables, where it is rational to build them
- Coal fired power is more than a climate problem
- Lack of acceptance and understanding of the need for cables is the biggest issue.

AND:

- For Norway development of off-shore grid is key to large GHG –emission reduction from offshore fossil power and development of offshore renewables.
- For Norway lack of political will and direction slows down the process.

Conclusion:

- Interconnectors and offshore grids are key to large GHG reductions
- It is very important to demonstrate how expansion of grids help reducing emissions.



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**Reduce emissions now
Invest in what we believe in**