



University
of Stavanger

KLAUS MOHN, rector, University of Stavanger
<http://www.uis.no/Mohn>
Twitter: @Mohnitor

What will it take to accelerate the green transition in research?

Nordic Edge Conference
Stavanger, 25 September 2019

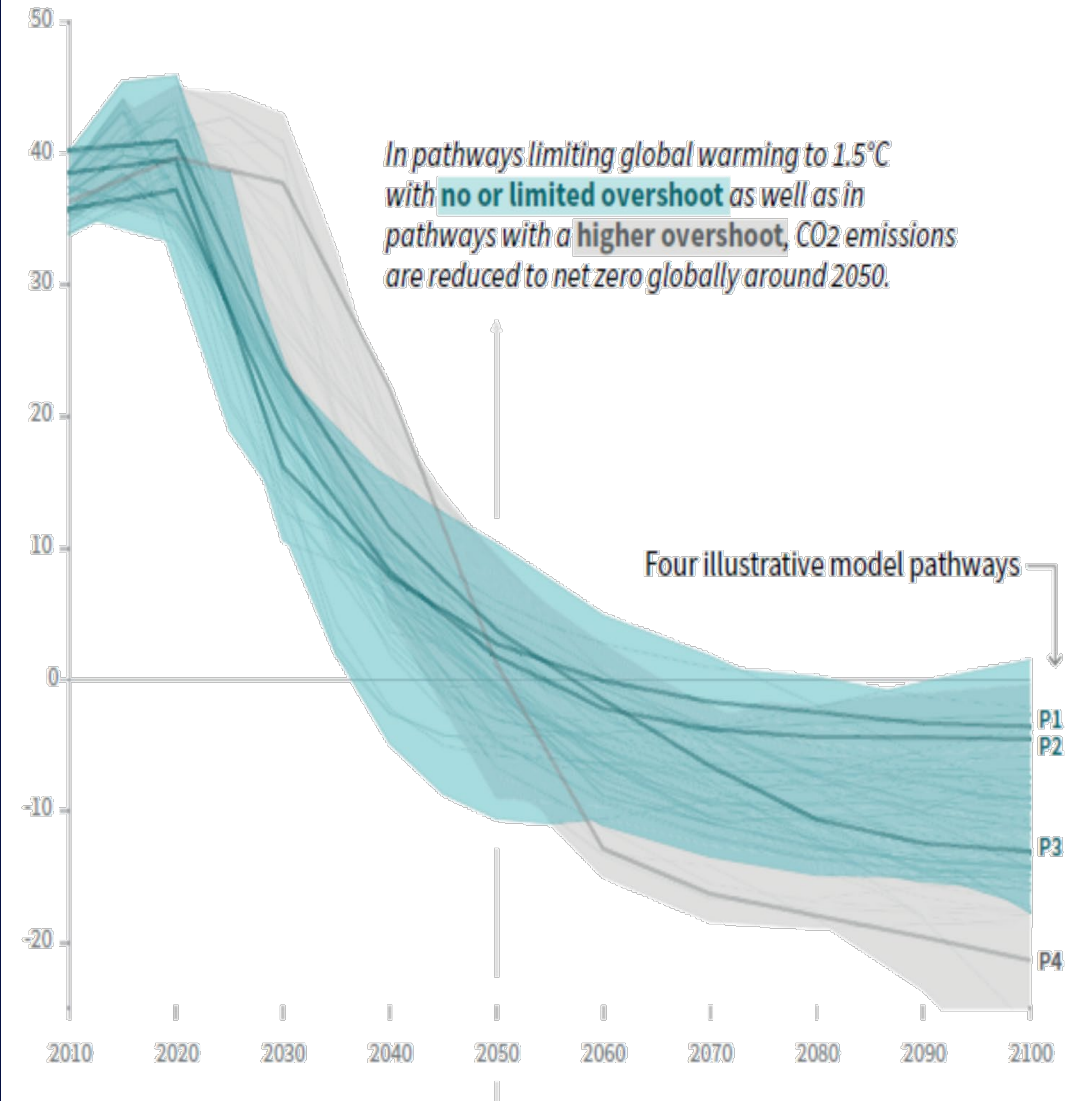
Time is running out!

Paris was just a teaser,
the real work starts now

- Success requires continuous scaling of policies and effort
- Global net emissions shall have to be zero by 2050
- Demand and extraction of fossil fuels needs to be cut
- Any delay will add complications - and cost

Source: UN IPCC.

Global CO₂ emissions
Gigatonnes per year



The European research policy response

Large societal challenges to be met by research and innovation

MISSION AREAS:

Soil health and food



Cancer



Adaptation to climate change, including societal transformation



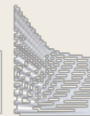
Climate-neutral and smart cities



Healthy oceans, seas, coastal and inland waters



#HorizonEU



European
Commission

The Norwegian research policy response

Traces of transition still remain to be thread



Sammenligningen mellom petroleumsforskning og forskning på fornybar viser at det per i dag ikke er tegn til et grønt skifte i den samlede FoU innsatsen innen områdene miljø og energi.

Tilstandsrapporten for høyere utdanning 2019

Rising to the challenge

University of Stavanger: Strategy in the making

Research

- Groups, networks and research centers
- Adaptation to research policies

Education

- From oil to energy
- New programs in the making

Innovation & outreach

- Commercialisation and entrepreneurship
- Gradual greening of campus



UiS innovation and outreach

- Green campus
- Entrepreneurship
- Commercialisation
- Early-phase investment
- Seminars and conferences



UiS research

Leveraging competence in new areas

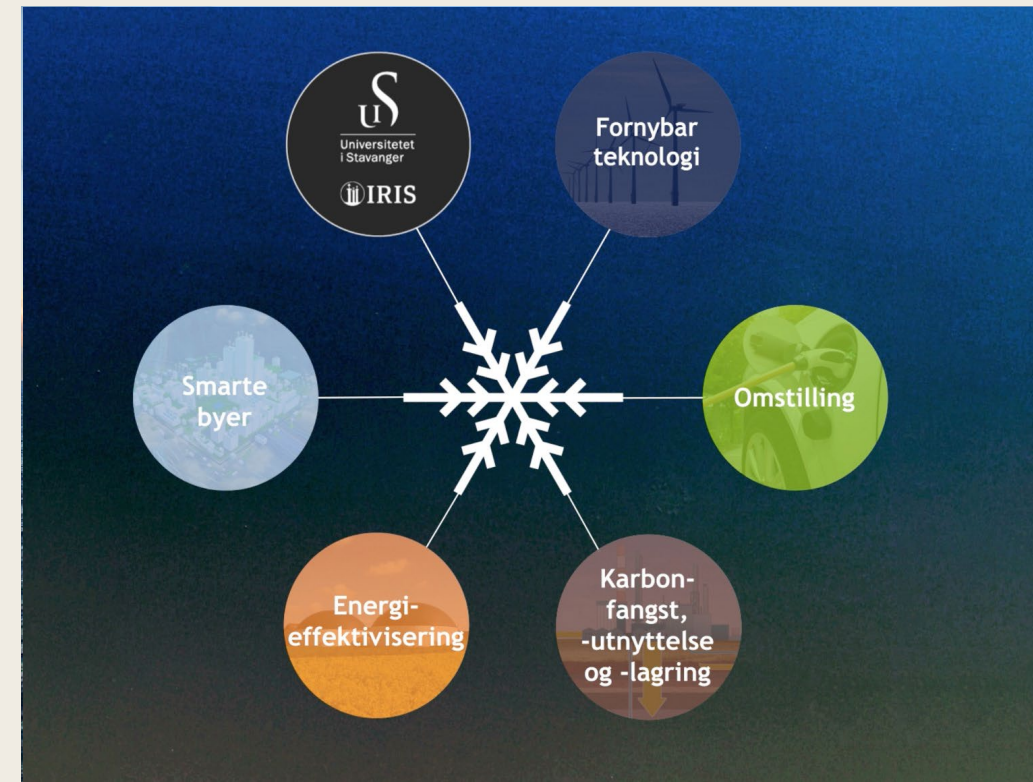
- Beyond petroleum: Diversification
- Economics and the humanities
- Social and political science
- Information technology
- Artificial intelligence
- Big data studies



Network for environmental-friendly energy

Leveraging academic competence in new applications

- Energy efficiency
- Renewable technology
- Restructuring
- Carbon capture and storage
- Smart cities
- NORCE partnership



Transfer of technology

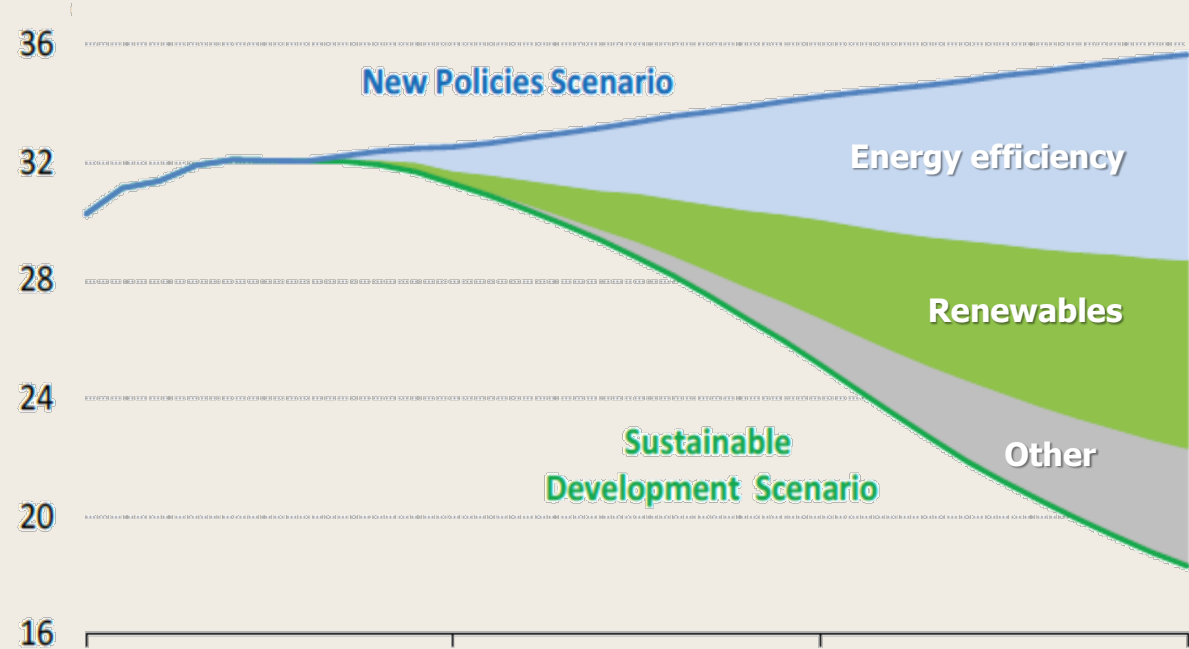
Leveraging academic competence in new applications

- From offshore O&G to offshore wind, aquaculture
- From petro subsurface to CO₂ capture and storage (CCS)
- From petroleum technology to geothermal energy
- From ICT to energy informatics
- From risk management to environmental/climate risk



A pathway to arrest global warming

Guidance for academic research



What it will take...

... to accelerate the green transition
in academic research?

- Change in policies
- Change in mindsets
- Change in strategies
- Change in competence





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” Thank you for listening!