

ETIPwind SRIA launched Sept. 2016





Strategic research and innovation agenda 2016

September 2016





https://etipwind.eu/fil es/reports/ETIPWind-SRIA-2016.pdf

Objectives of the SRIA 2016



Reduce costs



Facilitate system integration



Reinforce European technological leadership



Ensure first-class human resources





etipwind.eu/sria



5 Pillars of research and innovation for wind energy

Grids systems, integration and infrastructure

Operation and maintenance

Industrialisation

Offshore balance of plant

Next generation technologies











Developing wind energy capabilities to fit in a grid with significant shares of renewable energy.



Developing the value chain and facilitating the interaction between stakeholders notably through standardisation to achieve economies of scale and faster production.

Exploring new areas for offshore wind and making it competitive with conventional generation through the improvement of substructures and foundations, site access, offshore grid infrastructure, assembly and installation.



Consolidating the scientific base for wind research and enabling pioneering research to lead to breakthroughs.



From R&I to deployment

Adapting markets and policies for optimal integration of renewables, integrating wind turbines into their natural surroundings, ensuring public engagement and acceptance and deploying human resources.

etipwind.eu

NSEforum2017: Offshore wind is set to be big

COP21: A LEGALLY BINDING COMMITMENT TO HOLDING GLOBAL WARMING WELL BELOW 2 °C, PURSUING < 1.5 °C





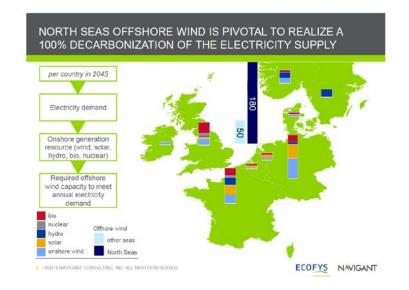
- zero CO₂ emissions before 2050
- a 50% reduction in total energy demand in 2050 (relative to 2010)

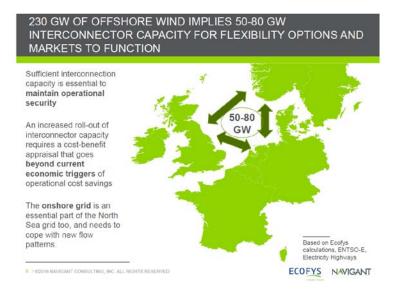
2 /60017 NAVIGANT CONSULTING, INC. ALL RIGHTS RESERVED

 a full de-carbonization of the electricity supply as early as 2045

100 - Business-s-susial scenario
100 - Bioc sc

ECOFYS NAVIGANT







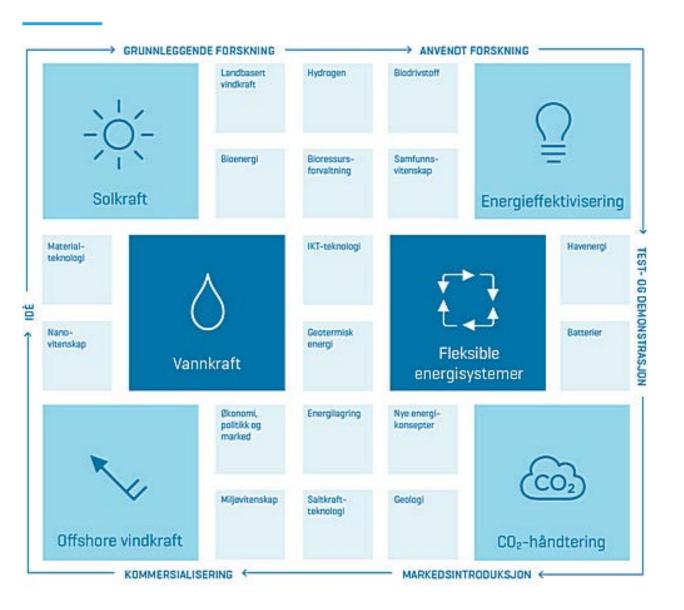








Energi21 strategisk arbeidsmøte om Havvind 14. juni 2017



Energi21 skal nå revidere sin strategi, og har behov for å vurdere om dagens satsingsområder med tilhørende strategiske FoU temaer fortsatt har relevans. Som et ledd i dette arbeidet ønsker Energi21 innspill fra næringslivet og FoU /utdanningsmiljøene om verdiskapende muligheter i fremtidens energisystem og markeder med tilhørende teknologi- og kunnskapsbehov.



Muligheter for norsk industri innen havvind

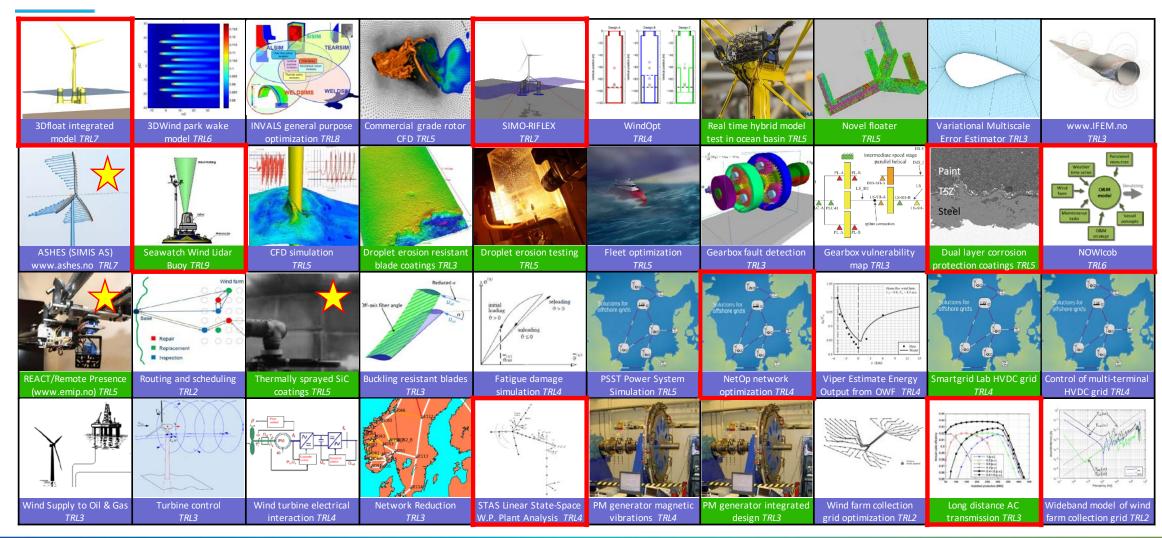


Seven areas, with opportunities for the Norwegian offshore supply chain have been identified:

- ✓ Project management
- ✓ Subsea cables
- ✓ Offshore substation structures
- ✓ Turbine foundations
- ✓ Maintenance and inspection services
- ✓ Vessels and equipment
- ✓ Installation equipment and support services



40 innovasjoner fra NOWITECH













Potential value of innovations

NPV: > 5000 MEUR*

IMPELLO

* Result from analysis carried out by Impello Management AS for a subset of innovations by NOWITECH. NPV is calculated as socio-economic value of applying the innovations to a share of new offshore wind farms expected in Europe until 2030.









