



9.3.2021

Asta Sihvonen-Punkka

Pohjoismainen TSO-strategiafokusessa tuulivoima ja sektori-integraatio

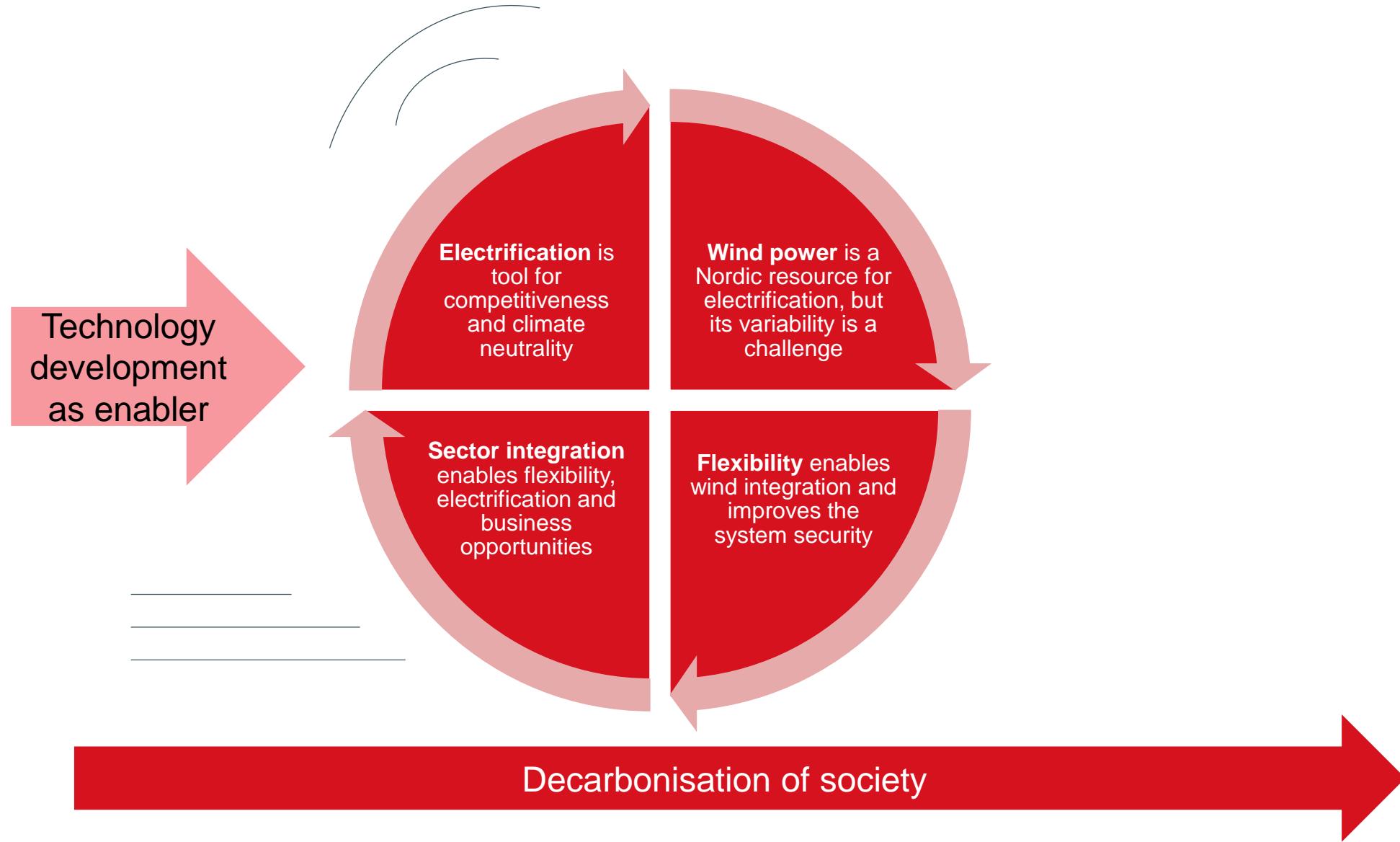
Fingridin sähkömarkkinatoimikunnan kokous 16.3.2021

FINGRID

Strategiatyön kohteena ovat tuulivoima ja sektori-integraatio

- Pohjoismaiset kantaverkkoyhtiöt ovat valmistelleet yhteistä strategiaa siitä, miten voimakkaasti lisääntyvää tuulivoimaa liitetään sähköjärjestelmään ja miten edistetään ja hyödynnetään eri energiayrjestelmien integraatiota.
- Strategia kuvailee pohjoismaisten kantaverkkoyhtiöiden roolit ja vastuu tulevaisuuden energiayrjestelmässä.
- Avainasemassa ovat sidosryhmät, joiden tietoa ja näkemyksiä haetaan strategiprosessin edetessä.
- Konsultaatio käynnistyi 12.3. webinaarin jälkeen ja on auki 2.4. asti. Seuraava webinaari järjestetään syksyllä 2021. Strategia julkaistaan Q2/2022





Draft

Clean and affordable electricity enabling a climate neutral, secure and integrated energy system in the Nordics

"Optimized energy system"

Optimized Nordic energy ecosystem where infrastructure is based on the potential of climate neutral electricity, incorporating the needs of stakeholders.

"Harmonized market and secure power system"

Harmonized Nordic market design supporting a coordinated flexibility in a cross-border level and secure system operation with an equal playing field for all technologies.

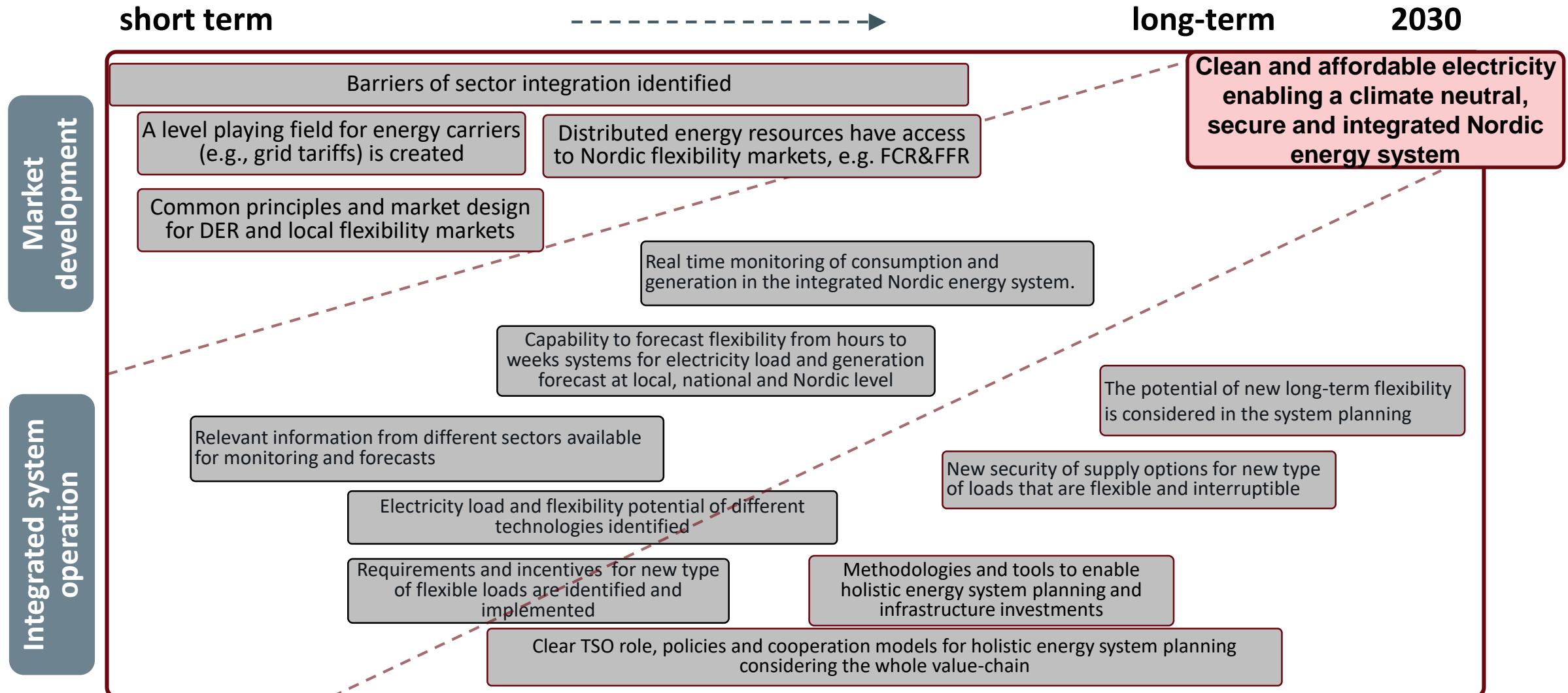
"Adequate infrastructure"

Adequate transmission capacity within and between countries where an integrated Nordic market for renewable resources as well as direct and indirect electrification are enabled.

Cross-border cooperation with stakeholders and shared best practices among TSOs. Excellent conditions for on- and offshore wind power in the Nordics. Easy access to advanced electricity markets and reserve power markets. Demonstrated use cases integrating energy sectors. Nordics viewed as trustworthy location for green investments. A strong joint Nordic vision and strategy.

Nordic TSOs – sector integration roadmap

Actions -> milestones



Nordic TSO - Wind Strategy (roadmap)

Nordic

R&D
and
Technology

Planning

Short term milestones

Best practice for optimal utilization of existing system

Assessment - viability of long haul, high-capacity transmission (SE/FI)

Baltic Sea offshore grid initiative

NGDP assessments on ambitious Nordic wind power scenario

Long term milestones

Solution reports (even years)

Optimize performance of the existing system

Assess the viability of expanding grid technology mix

NGDP (odd years)
TYNDP (even years)

Innovate holistic planning methodology

NGDP assessments on an ambitious Nordic wind power scenario – potential – sector integration

Goal 2030

Optimized utilization of existing grid
Improved technology supports optimized use of the grid

Grid plans identify needed Nordic investments based on ambitious Nordic scenarios

Market signals reflect the situation, enabling cost efficient, flexible sources to balance the system

Clean and affordable electricity enabling a climate neutral, secure and integrated Nordic energy system

Investments meet the 2030 needs

Coordinating technology, readiness for further grid expansion

Improved short-term forecasting enabling proactive balancing
Ensure wind power participation in balancing market and ancillary services
Investigate offshore market design, conclude joint statement on principles

Build identified grid to meet capacity needs within and between countries

Streamline connection to grid ("reduce time to implementation")

Share best practice, information and harmonize solutions

Identify how to stream-line connection to grid ("time to implementation")



Kiitos!

Fingrid Oyj
Läkkisepäntie 21
FI-00620 Helsinki
P.O.Box 530
FI-00101 Helsinki, Finland
Tel. +358 30 395 5000
Fax. +358 30 395 5196
www.fingrid.fi

FINGRID