



8.6.2021

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# Aurora line Status of the project

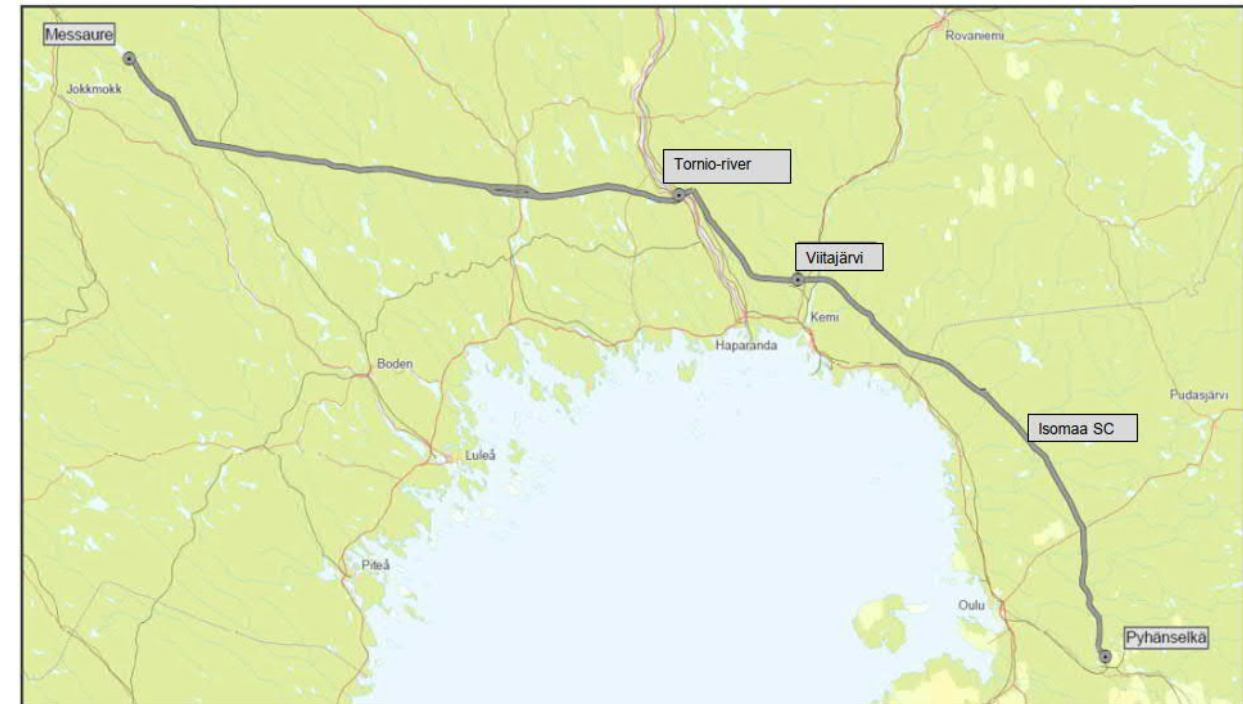
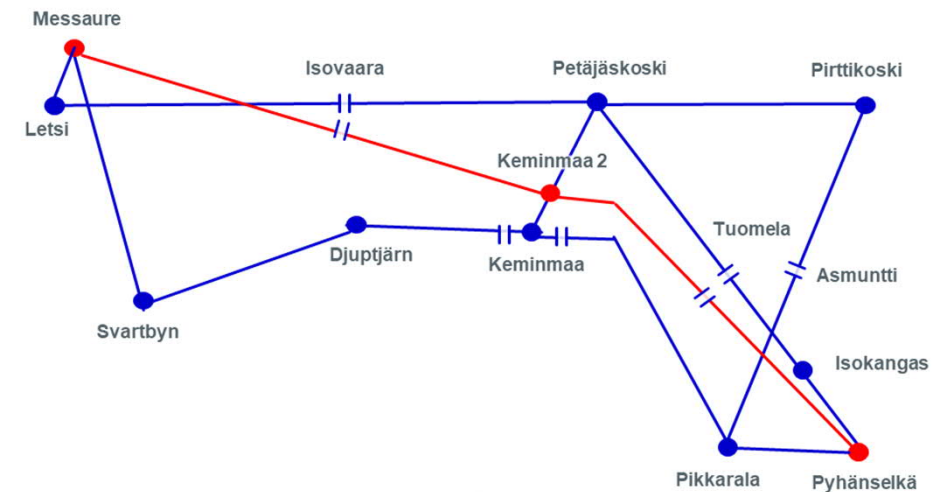
Meeting with participation of Finnish and Swedish  
authorities and TSOs



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# Aurora line = 400 kV transmission link between Messaure and Pyhänselkä

- joint initiative of Svenska kraftnät and Fingrid to meet the challenges of energy transition – recognized at EU-level with PCI-status and CEF-grant for ongoing study phase
- includes ab. 380 km of new 400 kV OHTL and works at 5 substation locations
- the most feasible crossing point over Tornio-river found in joint evaluation based on complex criteria
- started with feasibility study in 2016, since 2017 route and environmental studies (EIA), detailed technical design started 2020
- target to energize the new connection by end of 2025





# Status in Finland

## Route studies

- ab. 120 km parallel with existing OHTL, ab. 80 new route

## Environmental impact assessment

- carried out in two sections: Pyhänselkä-Keminmaa(Viitajärvi) and Keminmaa-Tornio-river
- reasoned conclusions of the competent authorities were given 2019 and 2020.

## Detailed technical engineering

- includes definition of tower locations, tower type and height, communication with landowners and local utilities, soil investigations, earthing (electrical) studies, detailed foundation design, creation of longitudinal profile and other technical documentation
- like EIAs carried out in two sections - to be finished Nov-21 and Nov-22

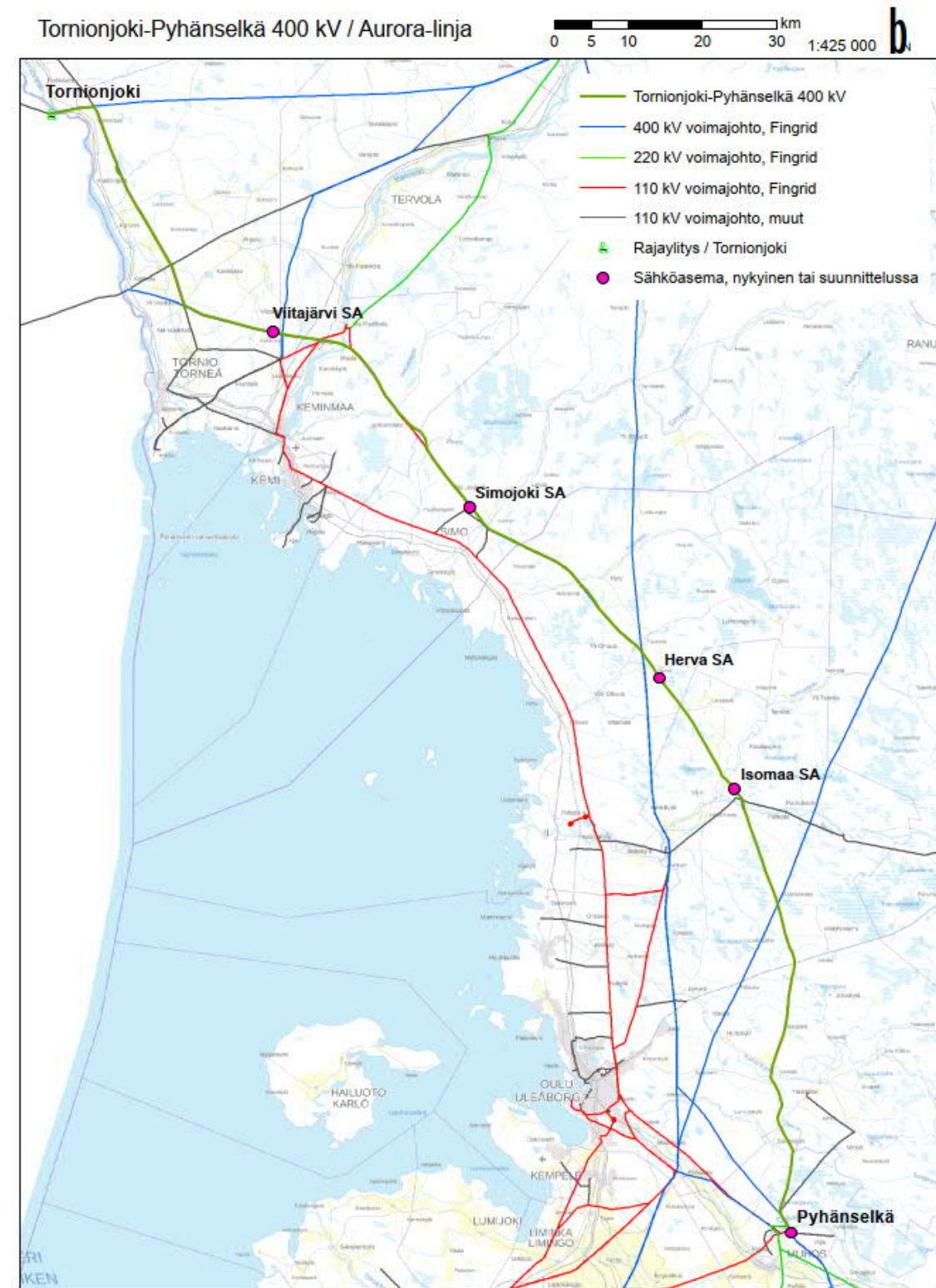
## Plan for construction phase

- target to start in Q4/2022

Permitting plans	Land use permit		Construction permit	
	Application in	Granted	Application in	Granted
Viitajärvi-Pyhänselkä	9.4.2021	1.3.2022	3.3.2021	29.3.2021
Vuennonkoski-Viitajärvi	1.2.2022	1.3.2023	6.2021	1.2022

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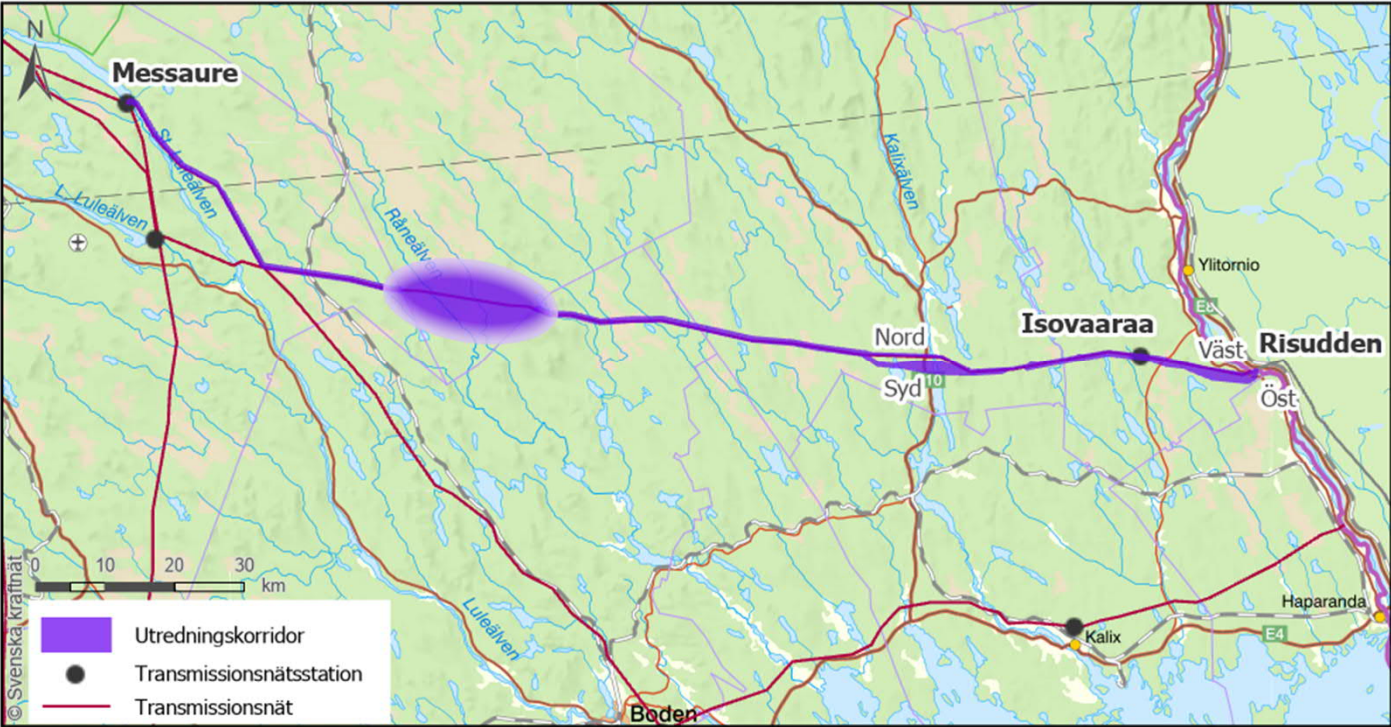
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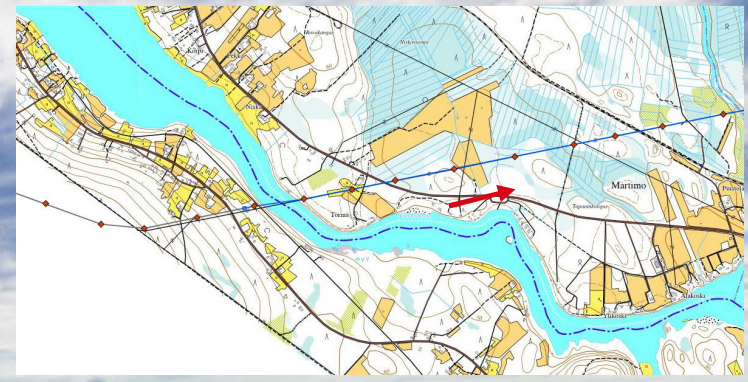
# Status in Sweden

- Public hearing incl Esbo hearing March – July 2020
- Additional public hearing two smaller areas January 2021
- Parallell to existing OHTL almost all the way, only a few short exceptions
- Concession (permit) for the power line:
  - The EIA is under production
- Other major permits:
  - Natura 2000
  - Dispensation nature reserve

Permitting plans	Application in	Granted
Concession	September 2021	May 2023 (Government)
Natura 2000	August 2021	2022
Dispensation nature reserve	June 2021	Spring 2022
Other permits	Ongoing from Spring 2022	

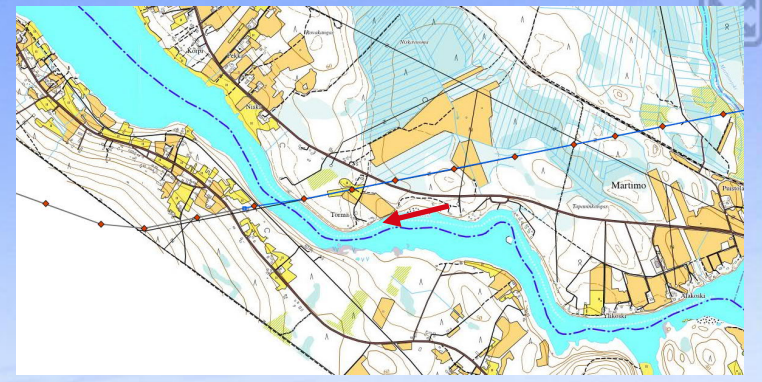






Keijo Vailmaa





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# AURORA LINE



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Messaure

Pyhänselkä