

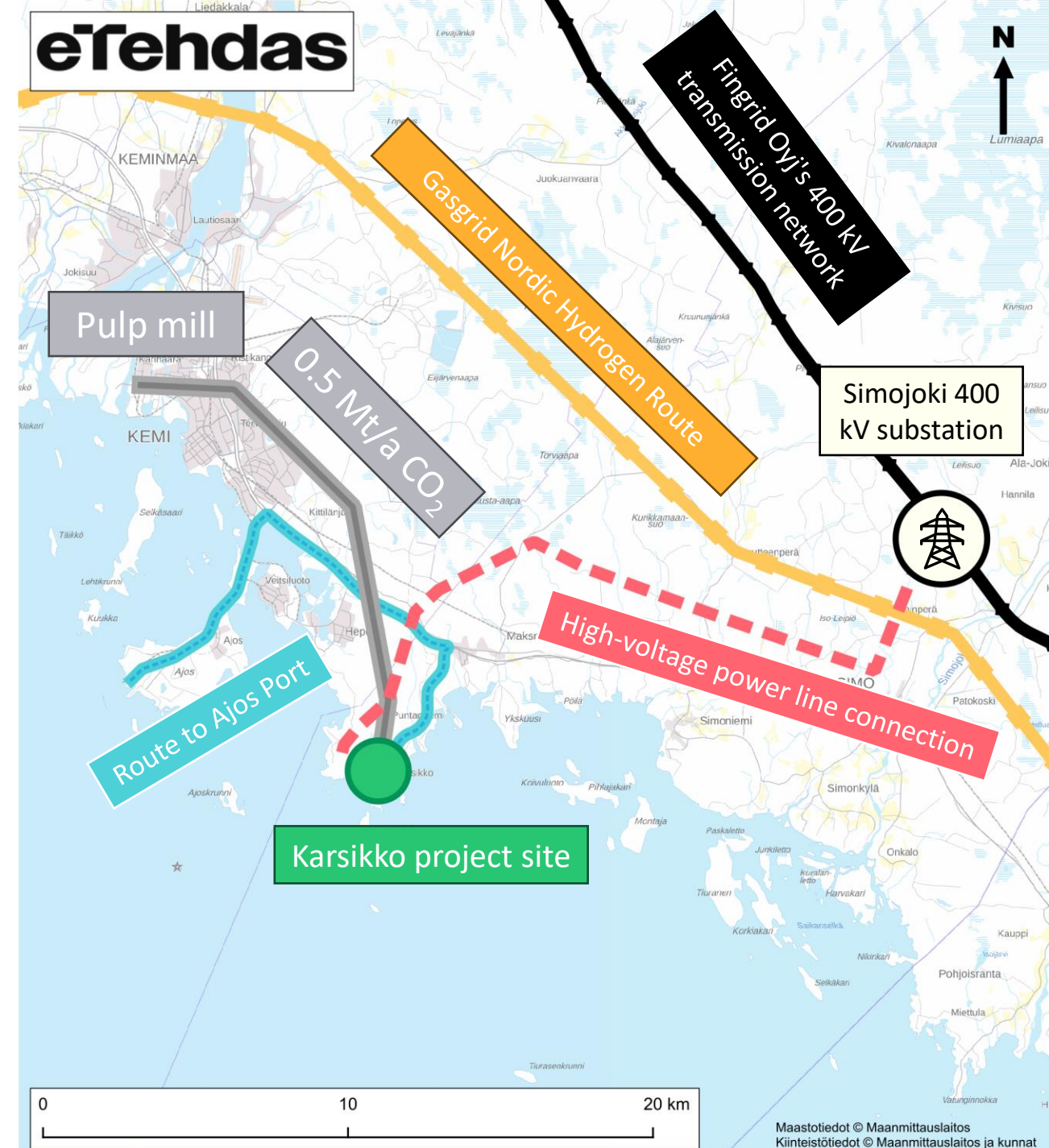


eTehdas

Northern Power, Oulu, 13.2.2025, Vivi Marttila (Simo municipality), Antti Pohjoranta (eTehdas)

Simo Karsikko PtX hub

- 52 ha plot reserved with zoning on-going
- Site formerly approved for nuclear power purpose
- Site electrical power capacity up to ca. 1.2 GW via recently opened Simojoki 400 kV power station
 - 450-800 ktpa RFNBO e-methanol
 - ~1 Mtpa CO₂ consumed / abated
- Site build-up based on 300 MW steps, with production expected to start in the early 2030's.
- Excellent logistics by road, rail and sea
- National hydrogen backbone pipeline planned nearby, connecting the site to southern Finland and northern Sweden



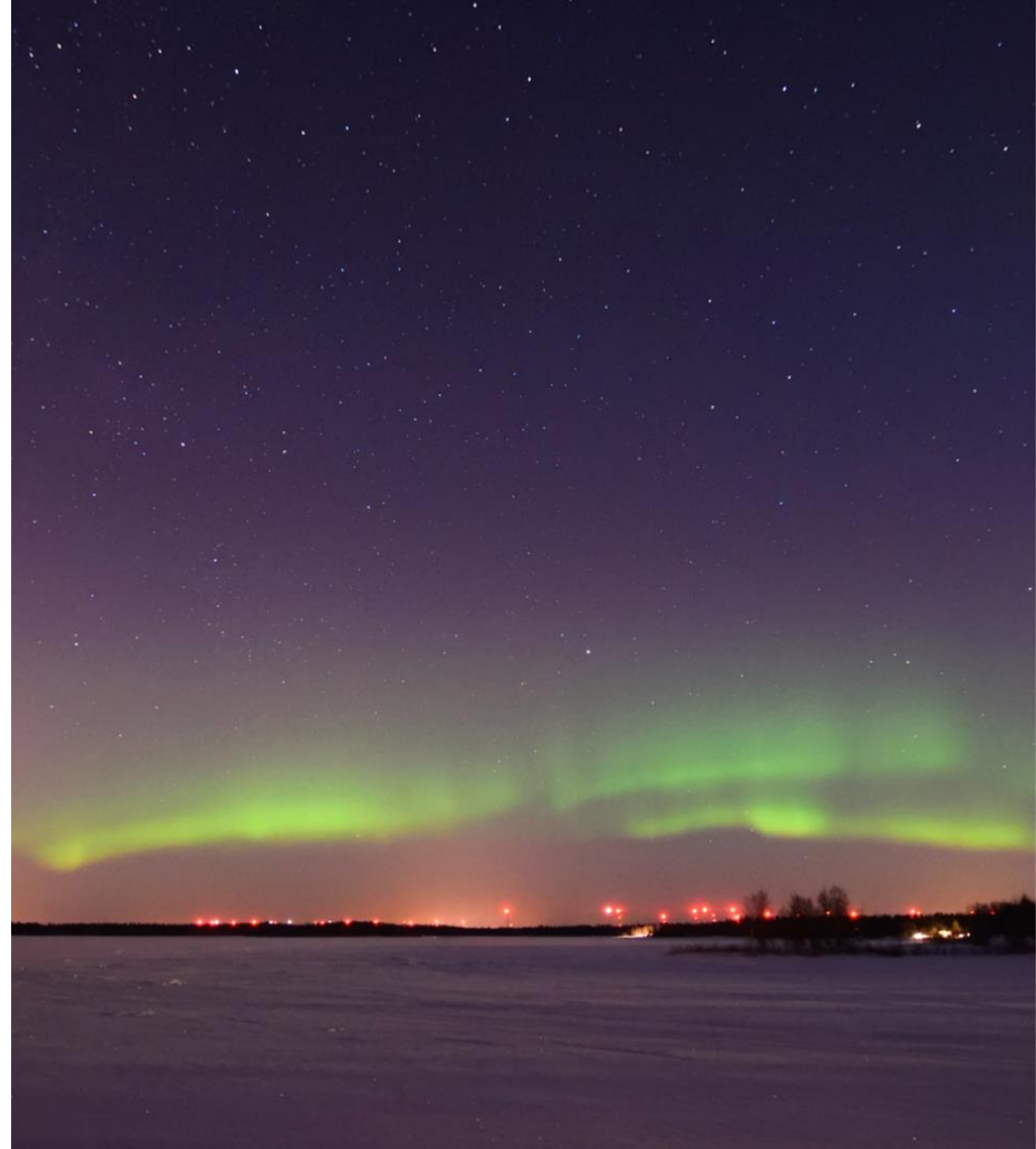
The renewable heat vision

- A large-scale power-to-x facility produces significant renewable low-grade heat as by-product – ca. 1/3rd of consumed power is emitted as heat
 - ~1-10 TWh/a available
- The heat could be utilized to support e.g.
 - Greenhouse farming
 - Drying of lumber
 - A large laundry
 - A spa
- By fully utilizing the by-product heat from power refining, new local business opportunities can emerge



Simo: in the middle of green transition

- **Karsikko PtX hydrogen hub with eTehdas** ❤️
 - About 50 hectares additional land available
- **Wind power 280 MW / 64 wind turbines**
 - 90 wind turbines in planning phase
 - Ranked 1st in wind power producing cities in 2021, now at 8th place
 - Offshore wind power being planned
- **Solar power 70 MW in construction**
 - 220 MW being planned
- **Electricity battery storages 70 MW**
 - 100 MW in construction
- **Simojoki power station and good connections to the main power grid** ⚡



Thank you!

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