



June 15th, 2023

Jukka Ruusunen
President and CEO, Fingrid Oyj



@RuusunenJukka

Security of supply - Winter outlook for Finland

Montel's Finnish Energy Day 2023

Helsinki

FINGRID

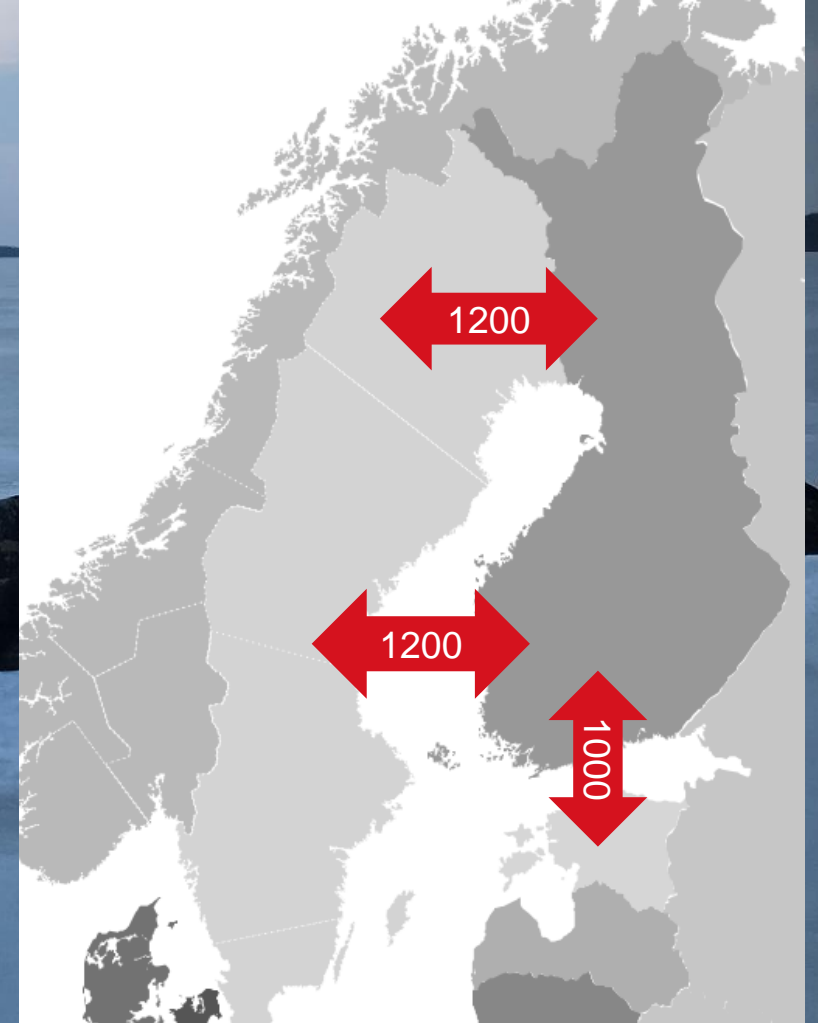


Happened last year...

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Winter 2022-2023 capacity balance

Cold winter day once in ten years	
Generation	12 900 MW
Peak demand	15 100 MW
Balance	-2 200 MW
Import capacity	3 400 MW
- Sweden	2 400 MW
- Estonia	1 000 MW



Three points	<ul style="list-style-type: none">• Olkiluoto 3• Sweden• Weather
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"Nose on the surface!"

Generation	12 900 MW
Peak demand	15 100 MW
Import from Sweden	2200 MW



- Temperature -25 °C
- Almost calm



Peak demand 15 100 MW



Olkiluoto 3 1600 MW

Wind generation 300 MW



2200 MW import from Sweden

September 27th, 2022

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"Breathe freely again!"

Generation	14 000 MW
Peak demand	14 000 MW



- Temperature -17 °C
- Moderate wind



Peak demand 14 000 MW



Olkiluoto 3 1600 MW

Wind 1400 MW



No imports needed (for the Finnish balance)

September 29th, 2022

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"Houston, we have a problem!"

Generation	11 000 MW
Peak demand	15 100 MW
Import from Sweden	1500 MW
Deficit	2600 MW



- Temperature -25 °C
- Calm weather



Peak demand 15 100 MW



Olkiluoto 3 offline

No wind generation



1500 MW import from Northern Sweden

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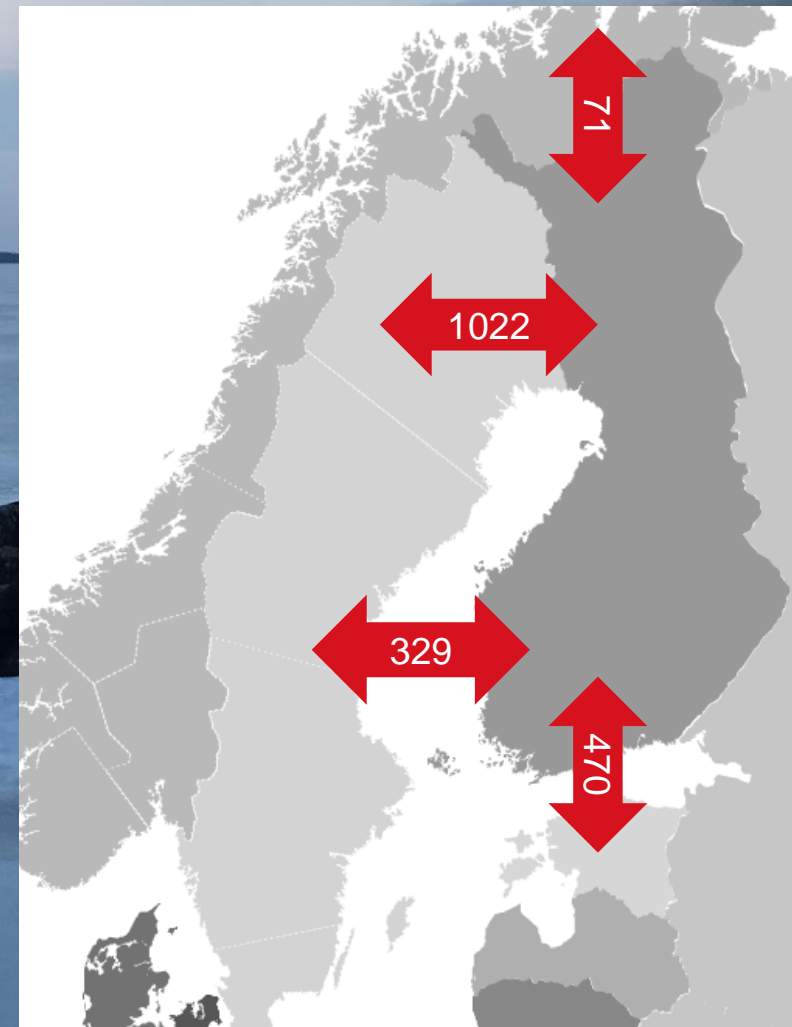
- Saving during December 2022 peak hours 1300 MW
- "Voluntary support system" 500 MW

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What happened?

Winter 2022-2023 peak demand hour

9 th of March hour 8-9 Temperature -11 °C (MWh/h)	
Generation	11 240
Peak demand	12 190
Balance (net import)	- 950
Olkiluoto 3	0
Wind	1760





Recovery

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Finland's average electricity price slips into negative territory

The oversupply of virtually emissions-free electricity is mainly due to spring flooding, which is super-charging hydropower production.



An image of wind turbines in Ilmajoki. Image: Esko Jämsä / AOP

YLE NEWS

24.5 15:54

Share

The price of electricity fell into negative territory on Wednesday before noon, with the market forecast expected to stay there throughout the day before climbing in the evening.

This is a historic moment, according to **Jukka Ruusunen**, CEO of grid operator Fingrid.

US MARKETS OPEN IN: 2h 25m 51s ▼ Dow Jones +0.47% ▼ Nasdaq +1.31% ▼ S&P 500 +0.99% ▼ META +0.61% ▼ TSLA +1.17% ▼ BABA +2.33%

HOME > SCIENCE

Electricity prices in Finland flipped negative — a huge oversupply of clean, hydroelectric power meant suppliers were almost giving it away

Marianne Guenot May 25, 2023, 1:12 PM GMT+3



The Olkiluoto-3 nuclear power plant in Eurajoki, Finland. Thomson Reuters

- Finland's renewable power strategy is paying off as its energy has fallen into negative prices.
- A new nuclear reactor, as well as unexpected floods, are leading to a glut of clean energy.
- It is a striking reversal from last year, when Finns slashed their usage after cutting ties with Russia.



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En Finlande, les prix de l'électricité deviennent négatifs deux fois en une semaine

Par : Pekka Vanttinen | EURACTIV.com | translated by Nicolas Thomsin

May 30, 2023 (mis à jour: May 30, 2023)

Advertisement



« Nous avons de très bonnes chances de construire sur cette base au moyen d'investissements industriels en faveur de la transition écologique », a ajouté M. Ruusunen. [Shutterstock/luonopark]

Langues : English

Imprimer

Les prix de l'électricité en Finlande sont tombés dans le négatif à deux reprises la semaine dernière, une première historique qui a permis aux consommateurs de voir leurs factures diminuer.



Les plus lus

Électricité : l'Allemagne se prépare à une bataille européenne sur les zones de dépôt des offres

Twitter pourrait se retirer du code européen de bonnes pratiques contre la désinformation

Le commissaire européen à l'Emploi est favorable à la semaine de quatre jours dans toute l'Union européenne

La Hongrie "inapte" à assurer la présidence de l'UE, selon les eurodéputés

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Next winter

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Next winter looks much better for Finland and for Europe!

- The whole society much better prepared. No dependency on Russia.
- Olkiluoto 3 in operation. 1500 MW of new wind power.
- New LNG terminals secure gas availability. Gas storage filling on a good level. Demand and price of gas have decreased considerably.
- Fingrid continues the voluntary power system support model as a contingency for electricity shortages.

However,

- Finland dependent on electricity imports during low wind days. Functioning of the common market important!
- Security environment around the Baltic Sea still uncertain – we must be prepared for worse scenarios.



Future

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Preparing for security of supply to the end of the decade

- "When the wind is not blowing"
- Olkiluoto 3 plays a major role in security of supply in the future (more than 10% of peak load). Longer disturbance during winter period will be challenging.
- Aurora Line improves the situation in 2025
- Forecasted demand increase at the end of the decade challenges security of supply – especially if the new demand is not flexible
- What if market does not deliver investments in flexible generation? Fingrid has studied various options together with AFRY – opening of the discussion.



Thank you!

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

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