



energiavirasto

# Recent development in the Finnish electricity market

21<sup>st</sup> Baltic Electricity Market Forum, Vilnius 3.5.2016

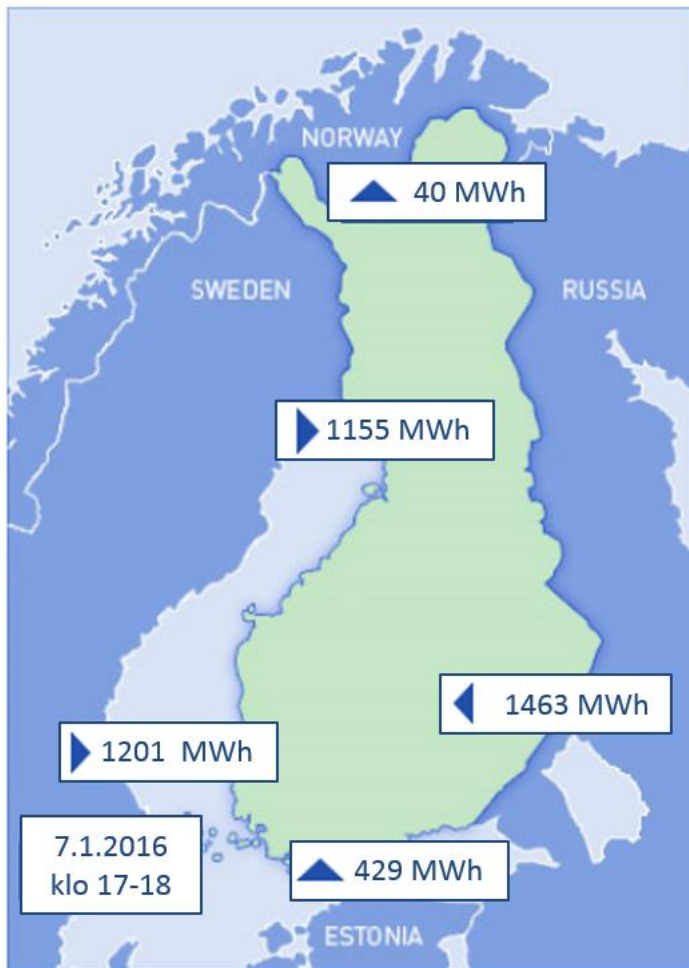
Antti Paananen, Energy Authority

Reilua energiaa

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- All time highest peak load of 15 105 MWh/h on 7 January 2016
- Changes in generation fleet
  - Condensed power generation capacity decreased by about 900 MW in 2015
  - Wind power capacity is increasing
  - OL3 nuclear power plant (1600 MW) by the end of 2018
- The Energy Authority has started to prepare the peak load reserve capacity system for the next period starting in July 2017
  - The Energy Authority is responsible for deciding the amount of capacity and for acquiring the needed capacity
  - In the present system amount of peak load reserve capacity is 299 MW

# Peak load situation in winter 2015 – 2016



7.1.2016 at 17 – 18 EET

Consumption 15 105 MWh/h

Production 10 874 MWh/h

Net import 4 231 MWh/h

Temperature\* - 25 °C

| Generation [MWh/h]           | During peak load hour<br>7.1. at 17-18 | During peak generation hour<br>13.1 at 17-18 | Highest during winter |
|------------------------------|--|--|-----------------------|
| Hydro                        | 2 236                                  | 2 323  | 2 419                 |
| Nuclear                      | 2 776                                  | 2 777  | 2 780                 |
| Condensed                    | 638                                    | 635  | 669                   |
| CHP, district heating        | 3 134                                  | 3 044  | 3 225                 |
| CHP, industry                | 1 653                                  | 1 811  | 1 935                 |
| Wind (partially estimated)   | 161                                    | 672  | 818                   |
| Other generation (estimated) | 274                                    | 198  | 276                   |
| Peak load reserves           | 0                                      | 0  | 0                     |
| <b>Total</b>                 | <b>10 874</b>                          | <b>11 456</b>                                | <b>12 122**</b>       |



# Recent development in the Finnish electricity market

- An ad hoc committee to prepare a proposal for a new RES support system in Finland
- Implementation of the CACM guideline
  - Nord Pool AS was designated as a NEMO in Finland in December 2015
  - EPEX SPOT SE has announced in January 2016 its aim to start providing day-ahead and intraday trading services in Finland
- Nordic Balance Settlement (NBS) will start in October 2016 and covers FI, SE and NO
- Finnish TSO Fingrid is preparing a centralized information exchange system for the electricity retail market in Finland (Datahub)
  - Datahub is planned to be in operation in 2019