



# External parallel run simulation results

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# Week 11 and 12 simulations

## Theme of the presentations

- First weeks from the external parallel run: summary of week 11 and 12 socio-economic welfare and prices

**More detailed studies and observations will be presented later by separate reports** to allow better in-depth analysis from all previous weeks.

## Market situation in nutshell

- Slightly lower consumption compared to last weeks
- Low water reserves continued to decline.

Disclaimers about simulation setup and capacity calculation data are found from the Week 11 and 12 reports.

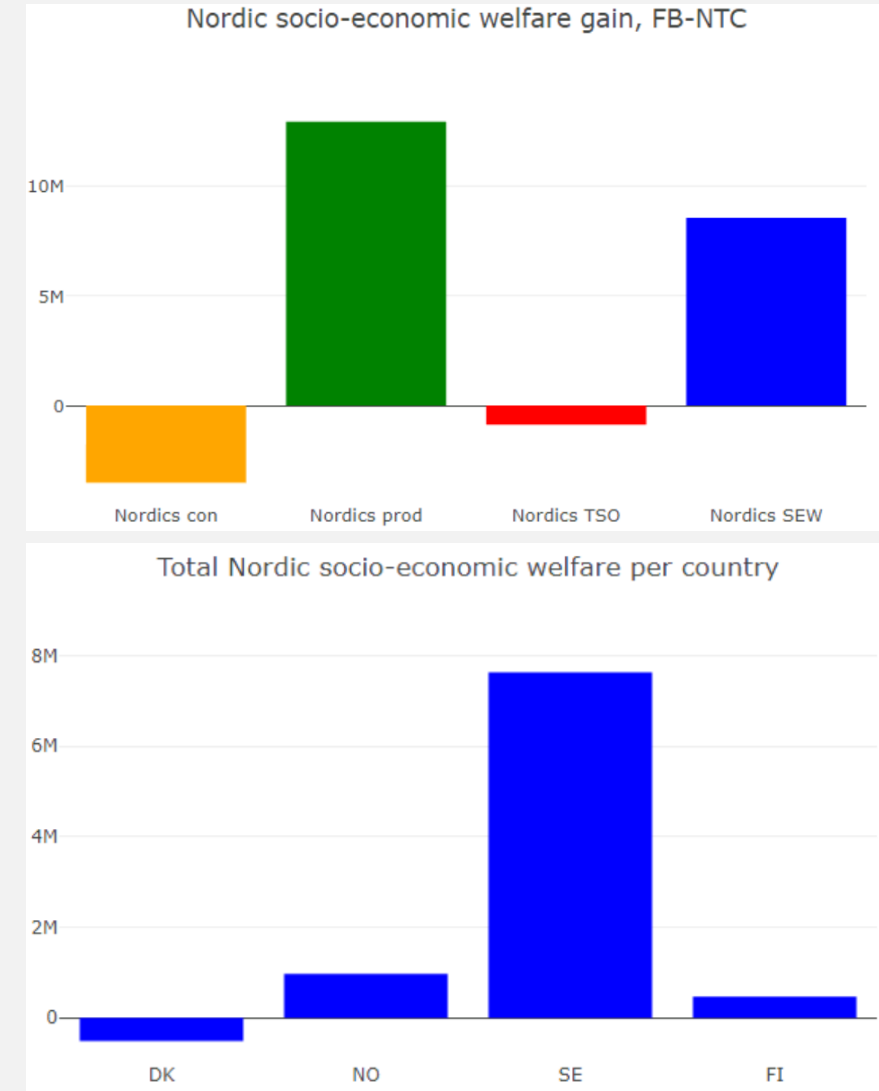


# External parallel-run results – week 11 (1/2)

Results are based on 5 days of data

## Some highlights

- Nordic socio-economic welfare (SEW) gain increased compared to NTC. Nordic SEW fluctuate between weeks
- Congestion income decrease is caused by lower price divergence between Nordic bidding zones
- Nordic SEW gain is generated mostly from the SE4 bidding zones (see next slide)

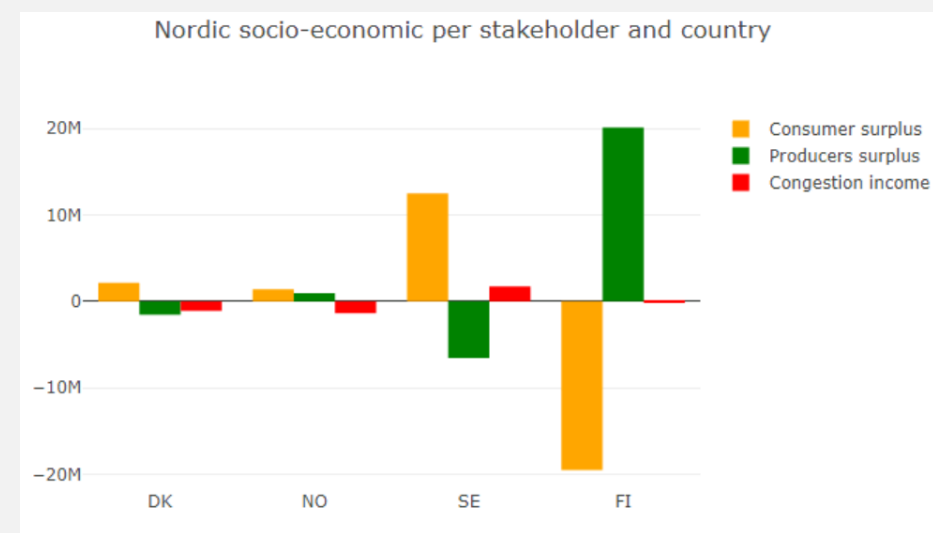
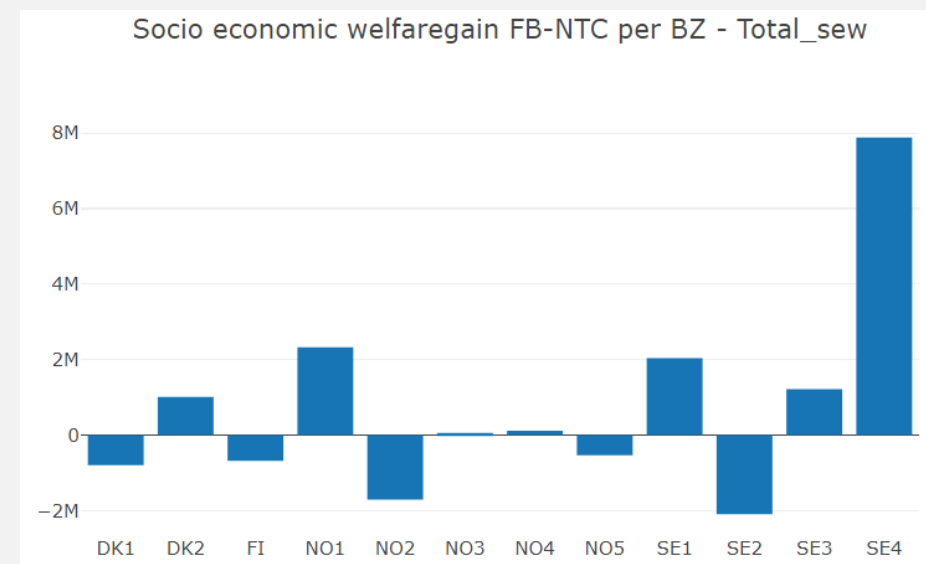




# External parallel-run results – week 11 (2/2)

## Main impacts occurred in Sweden and Finland

- Highest market impacts occurred during Tuesday evening and Wednesday morning in addition to high temperature changes between night and day.
- **SE4 total gain compared to NTC (7.9M€) is contributed by:**
  - **lower price** which introduced consumer gain of 5.4 M€ while the producer loss was limited to 1.0M€. **High congestion income** further assists to gain higher benefit to SE4 area.
- **High change between FI producer and consumer surplus.**
  - FI area +30% compared to NTC. Long-term average approx. -5% compared to NTC
  - Internal planned outage reduced FI-SE1 capacity





# EPR results – weeks 11 : Prices 1(2)

## FI price

higher due to  
planned outage  
(avg. 300MW lower  
FI-SE1 capacity)

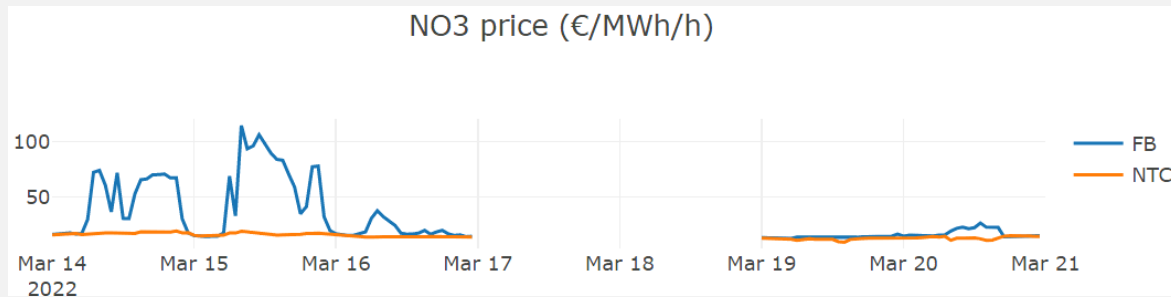
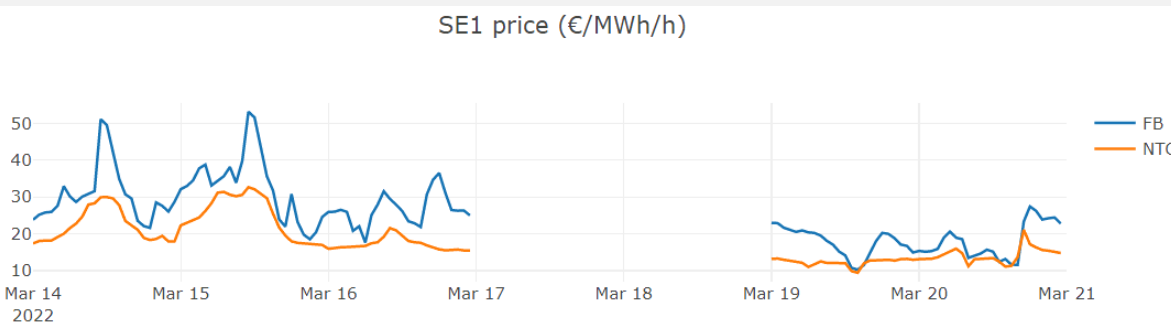
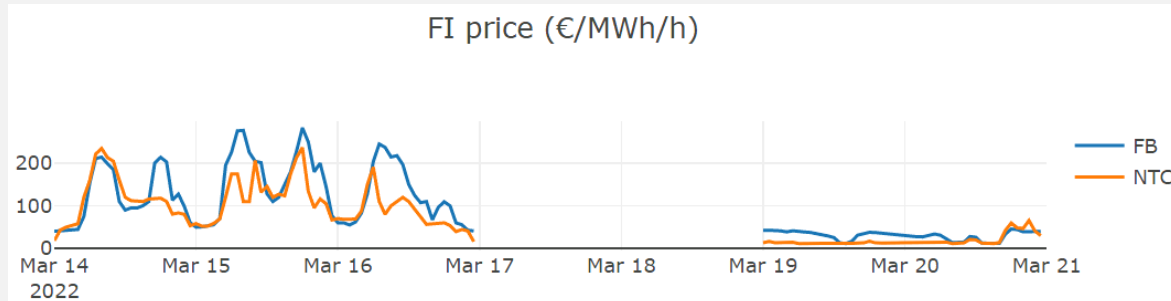
## SE1 price

in a range of  
2-month average

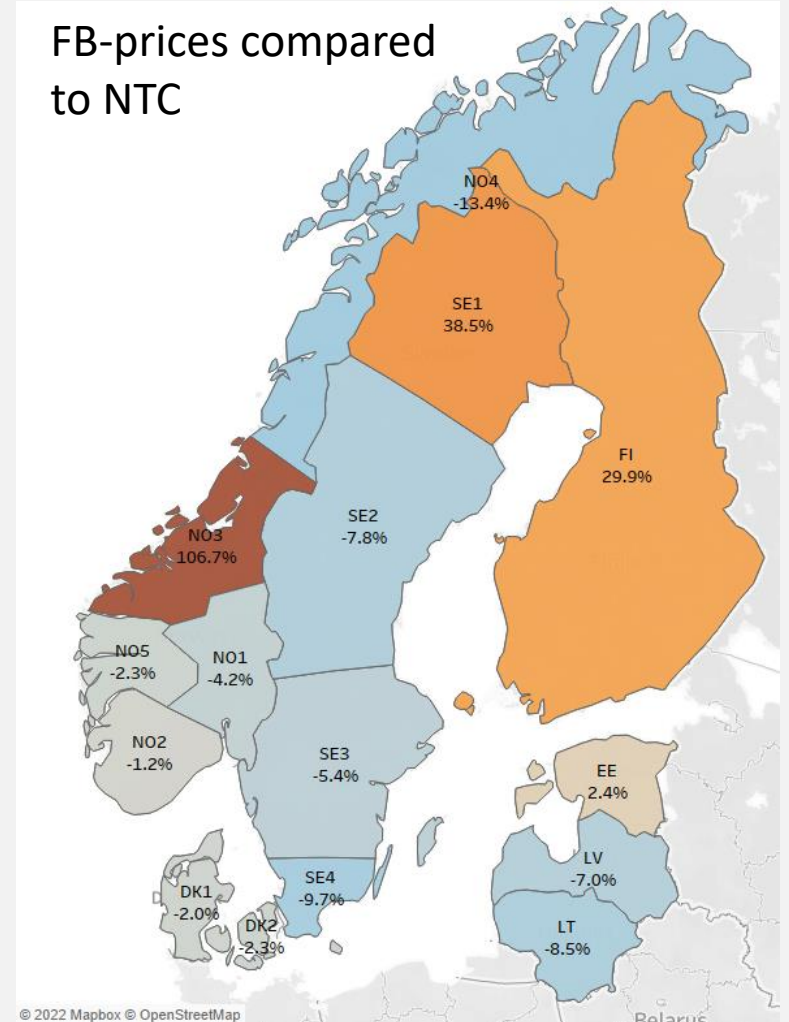
## NO3 price

within price range  
compared to long  
term FB avg.  
(approx. +91%)

## Areas with higher price in Flow-based



## FB-prices compared to NTC



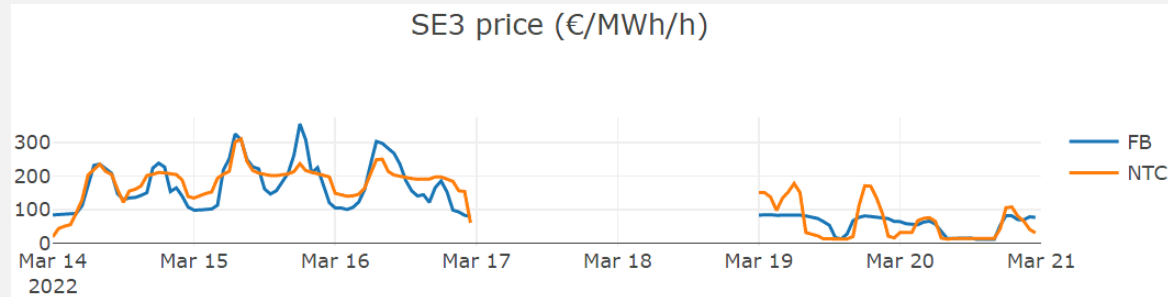


# EPR results – weeks 11 : Prices 2(2)

Some areas with lower price in Flow-based

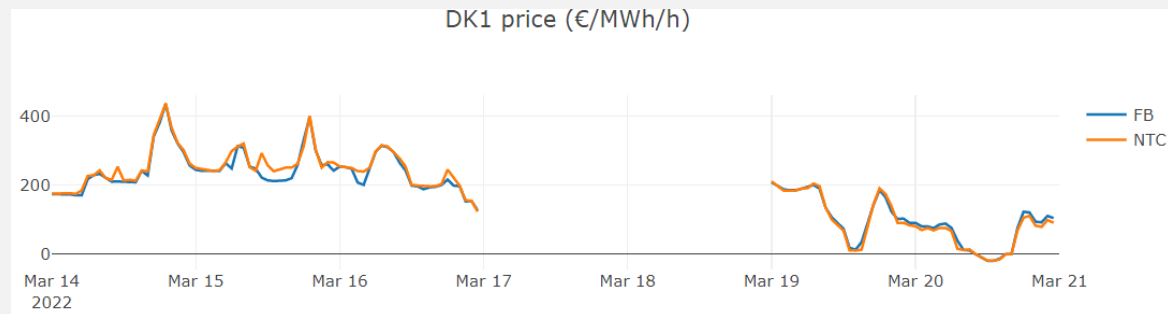
## SE3 price

Lower than long term average



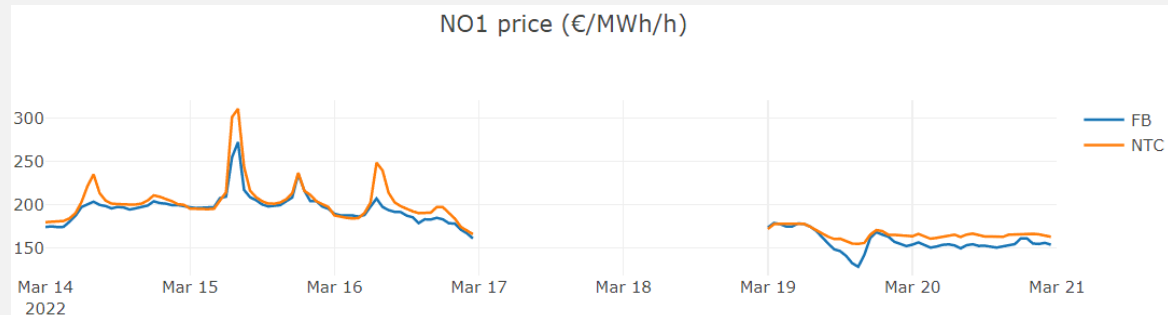
## DK1 price

follows DE price

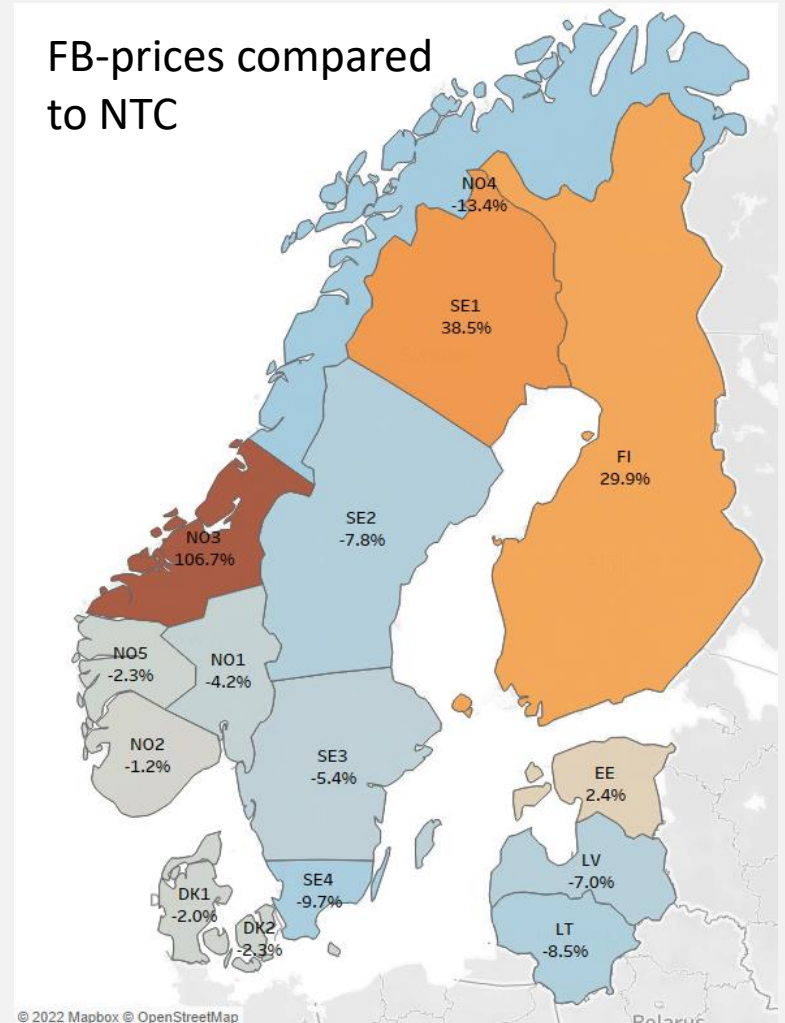


## NO1 price

lower peak prices



FB-prices compared to NTC



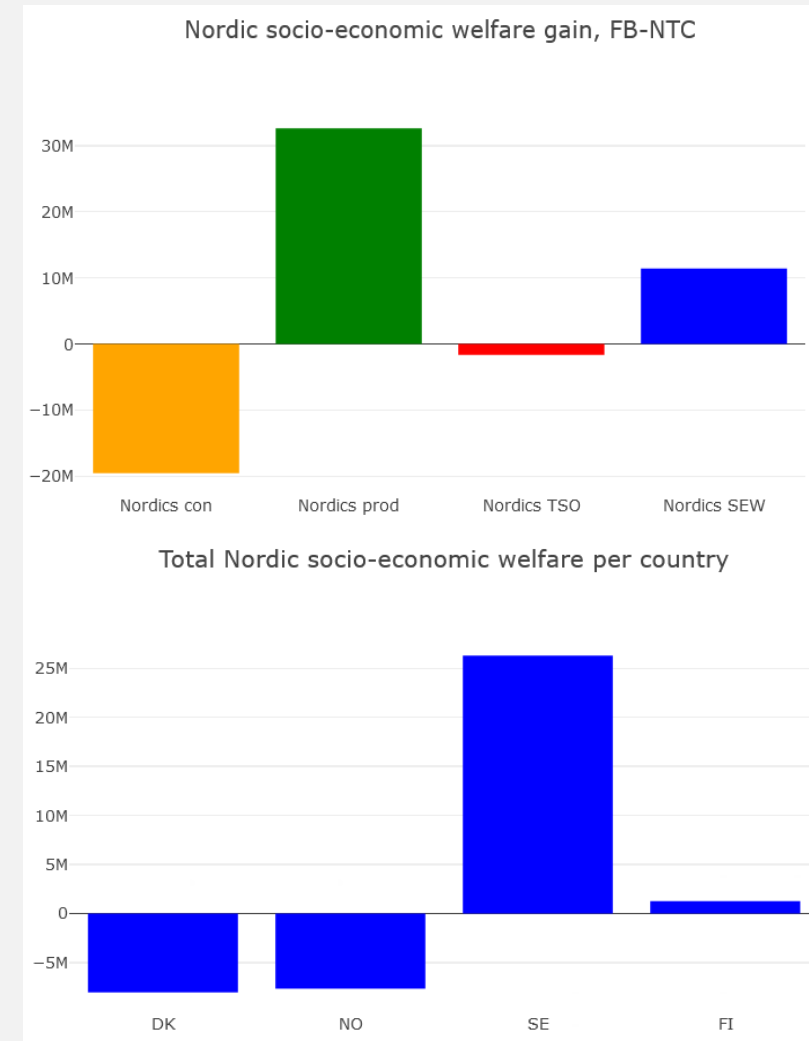


# External parallel-run results week 12

Results are based on 6 days of data

## Some highlights

- Nordic SEW gain increased compared to NTC.
- Congestion income decrease is caused by lower price divergence between Nordic bidding zones
- Nordic SEW gain is generated mostly from bidding zones SE2 and SE3





# External parallel-run results week 12: Per country

## Denmark

- Negative total SEW for the week
- Small difference in price

## Finland

- Small reduction in price, increasing the consumer surplus and overall SEW.

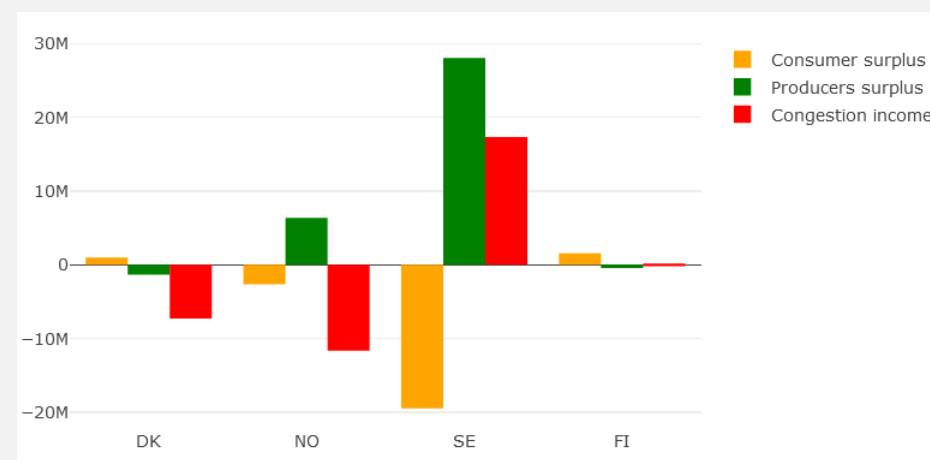
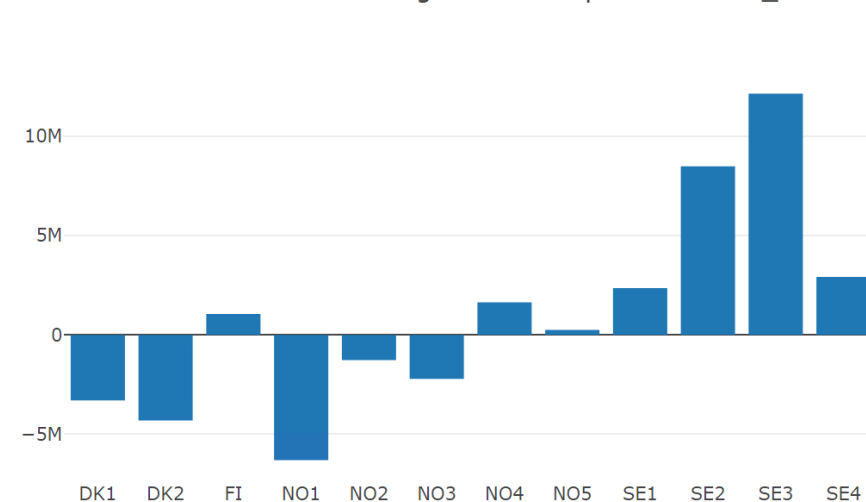
## Norway

- Negative total SEW for the week
- Positive change in producer surplus mainly in NO3 where average price increase by over 50 %.

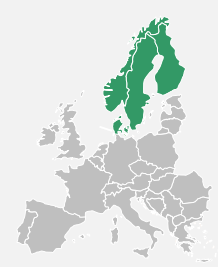
## Sweden

- Larger price difference between SE2 and SE3 and increased flow on cut 2.
- Increased prices in SE3 stands for most of the positive producer surplus and consumer surplus decrease.

Socio economic welfaregain FB-NTC per BZ - Total\_sew







# EPR results weeks 12 : Prices

