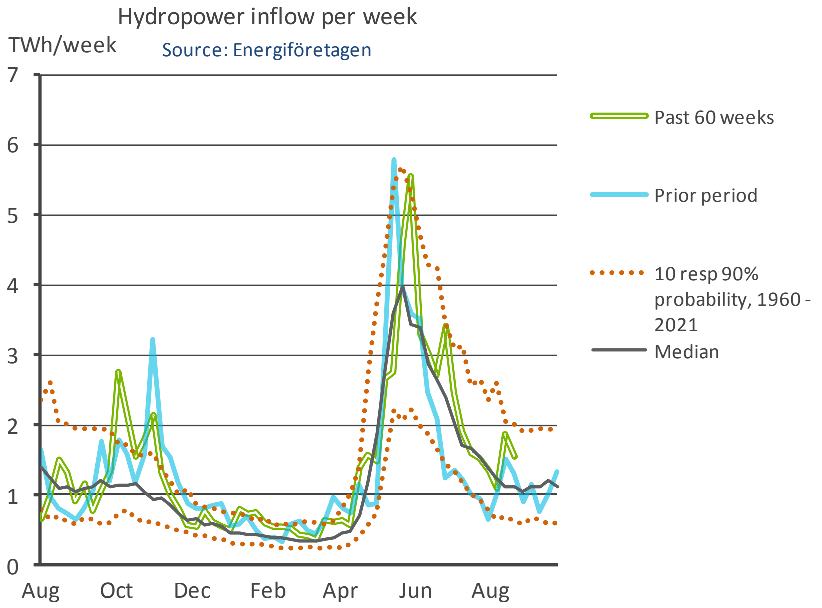
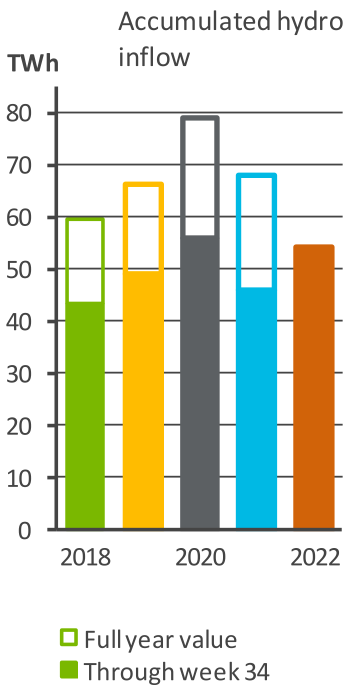
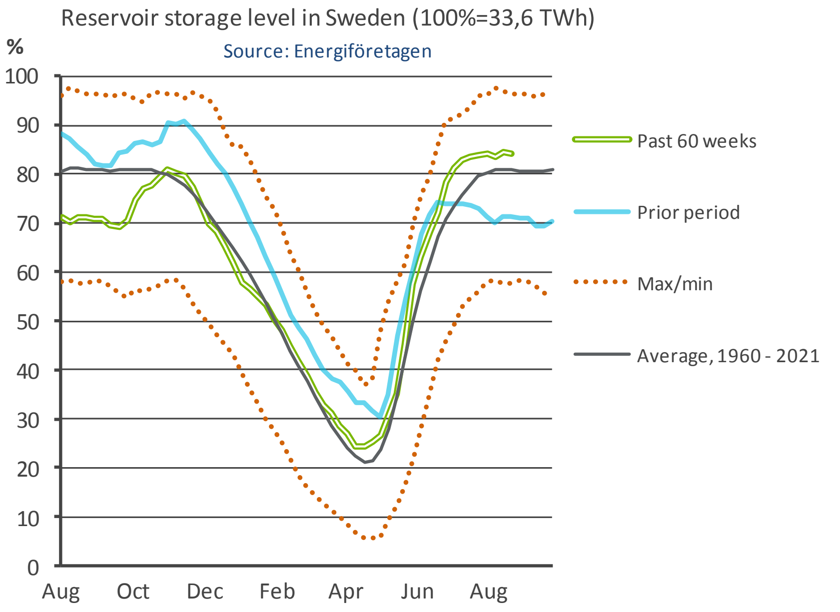
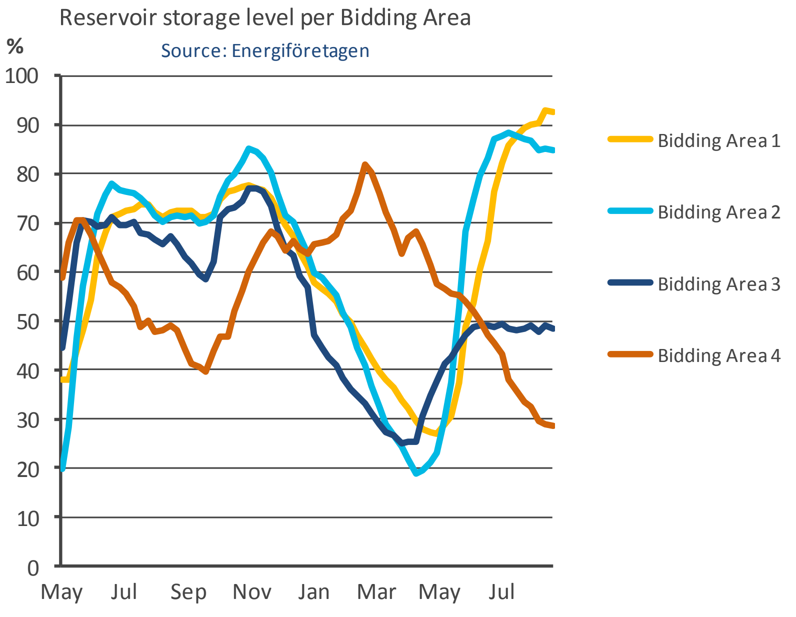
Power situation in Sweden
Reservoir inflow and storage

Week number 34 - *22 aug - 28 aug year 2022, version:* **A**









The estimated energy inflow during week 2022-34 was 1,542 GWh, which is 138% of median for the period 1960-2021.

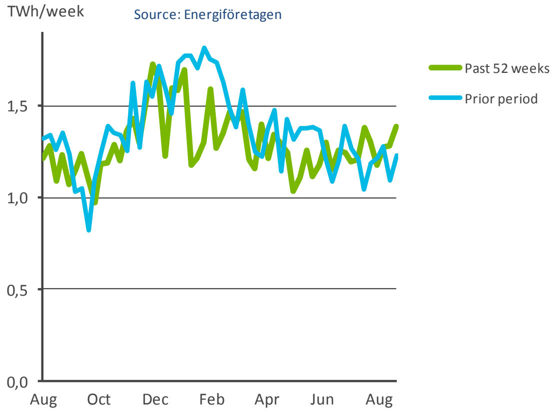
The total energy content in the regulating reservoirs is estimated at 28,683 GWh this week.

During week 2022-34, the the reservoir storage level has changed from 84.6% to 84.3% (at end of week).

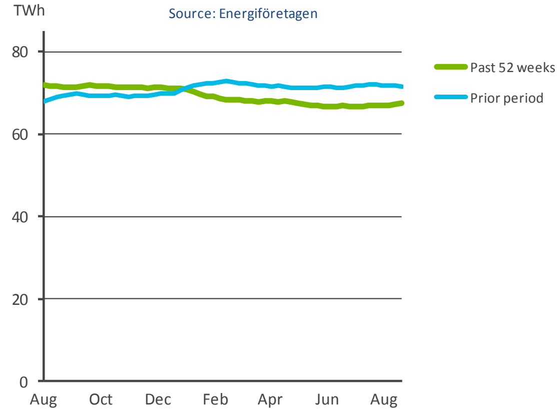
The average reservoir storage level during the period 1960-2021 was 80.8%.

Bidding Area	Procent	GWh
SE1	92.7	13,727
SE2	84.8	13,288
SE3	48.3	1,604
SE4	28.5	64

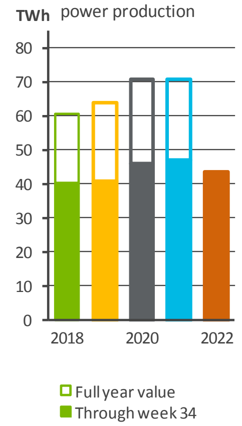
Hydropower production per week



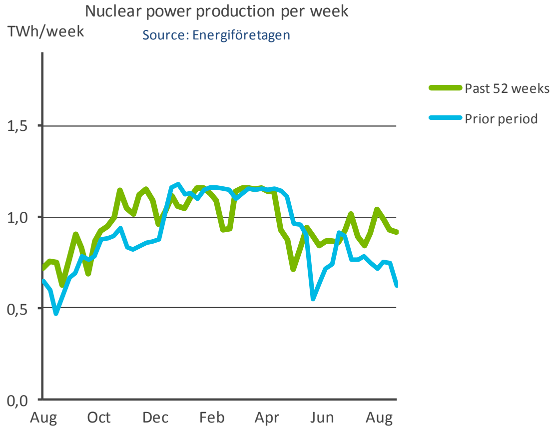
Hydro power production, rolling 52 weeks



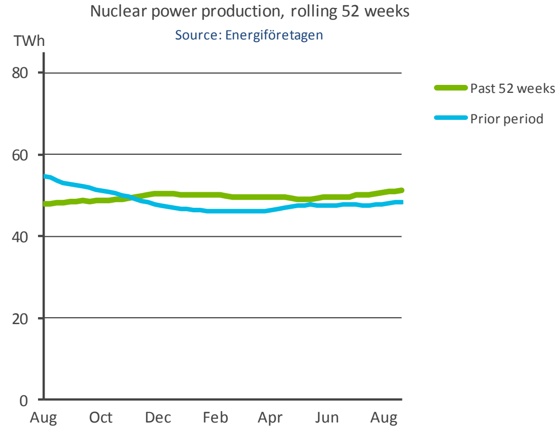
Accumulated Hydro power production



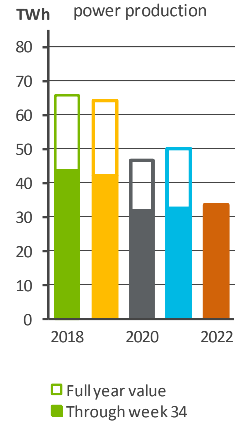
Nuclear power production per week



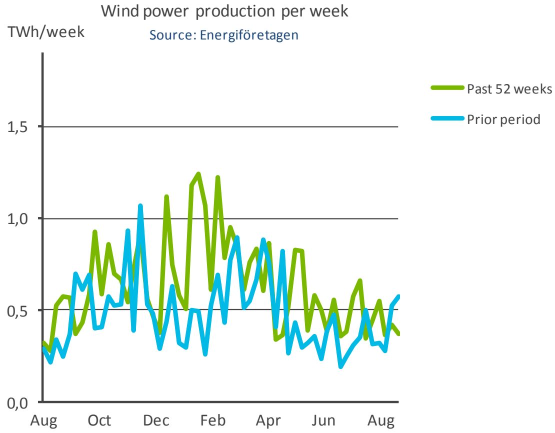
Nuclear power production, rolling 52 weeks



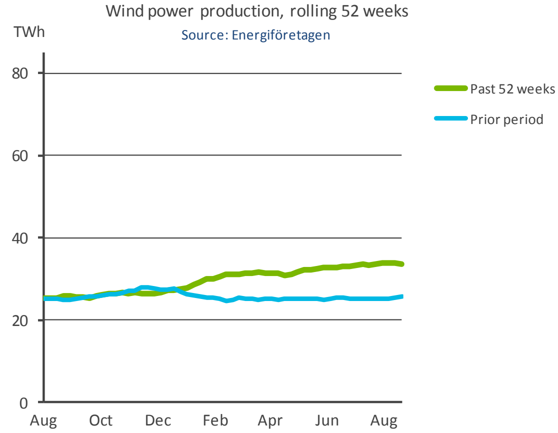
Accumulated Nuclear power production



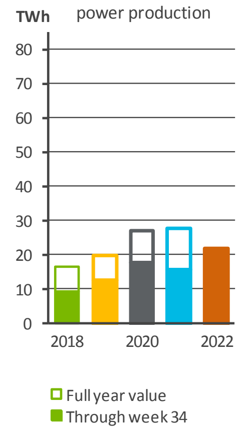
Wind power production per week



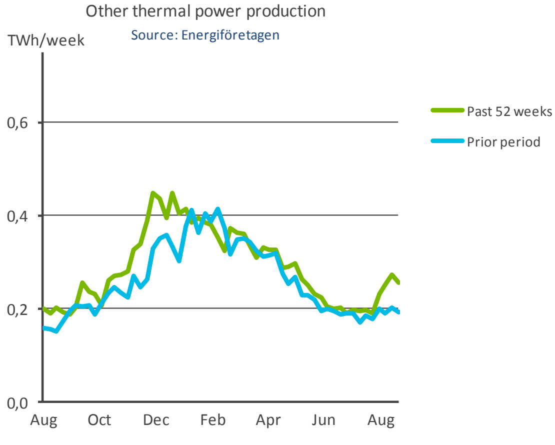
Wind power production, rolling 52 weeks



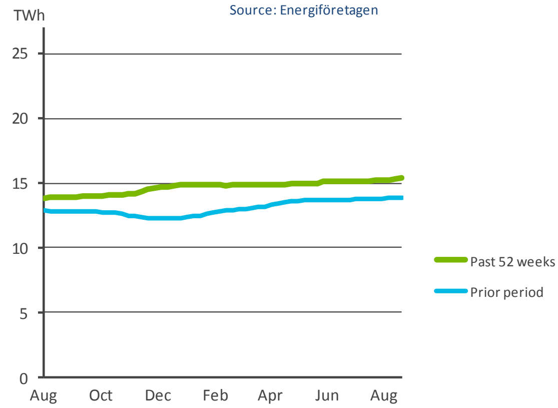
Accumulated Wind power production



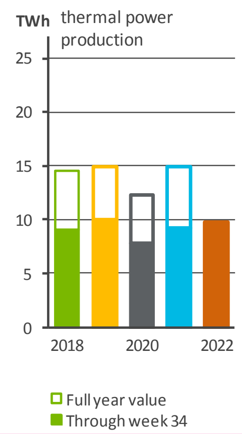
Other thermal power production

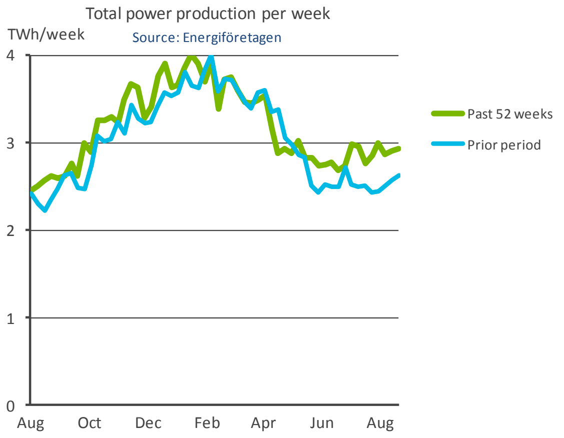


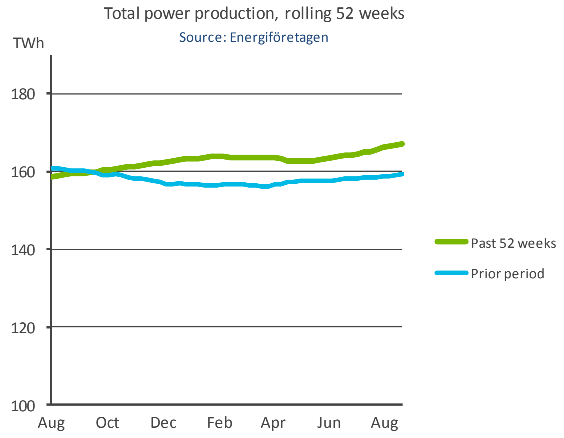
Other thermal power production, rolling 52 weeks

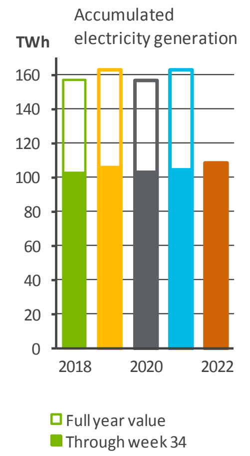


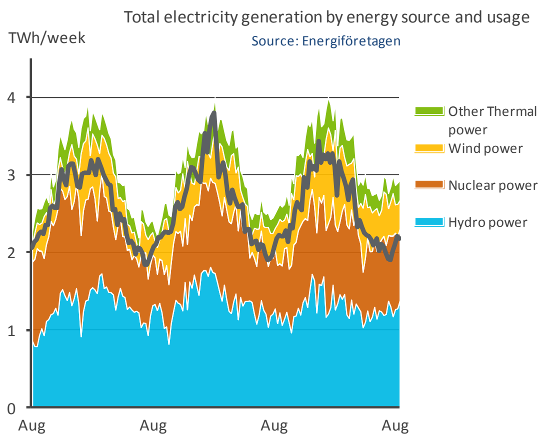
Accumulated other thermal power production











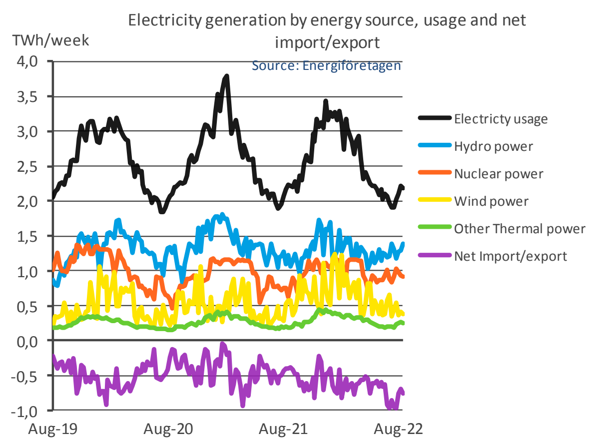


Table 1

Sweden

	Hydropower	Wind power	Nuclear power	Other thermic power	**Total production**	
2020-33	1,338	215	596	157	**2,306**	GWh
2020-34	1,259	342	467	150	**2,218**	GWh
2021-33	1,092	524	749	202	**2,567**	GWh
2021-34	1,231	575	626	193	**2,625**	GWh
2022-33	1,283	418	926	273	**2,900**	GWh
2022-34	**1,387** **(13%)**	**373** **(-35%)**	**919** **(47%)**	**257** **(33%)**	**2,935** **(12%)**	**GWh**

The values in brackets represent the current period in relation to a prior period

Cum[1]. through w.2020-34	46.0	17.8	31.8	7.8	**103.5**	TWh
Cum. through w.2021-34	47.2	15.8	32.6	9.3	**104.9**	TWh
Cum. through w.2022-34	**43.6** **(-8%)**	**21.8** **(38%)**	**33.7** **(3%)**	**9.8** **(5%)**	**108.9** **(4%)**	**TWh**

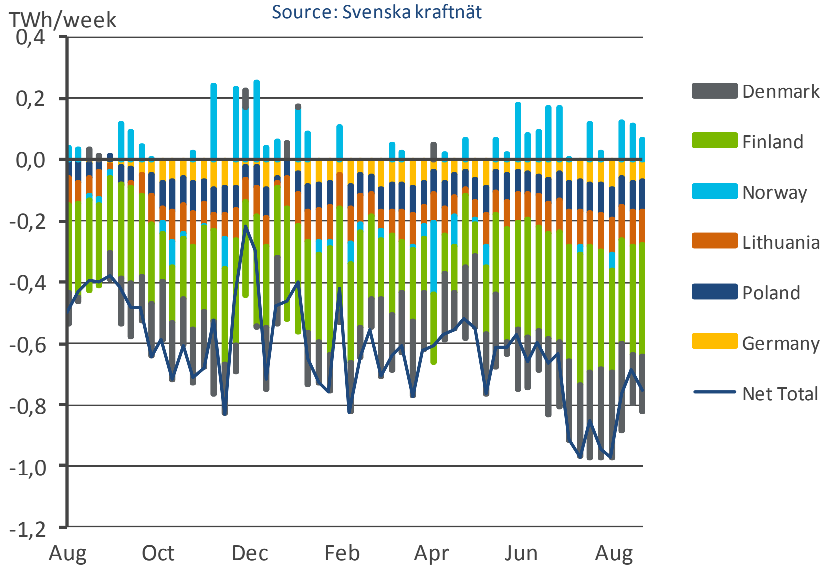
[1] Cumulative sum value from the beginning

52-weeks[2] total through w. 2020-3	69.0	25.1	53.5	12.8	**160.4**	TWh
52-weeks total through w. 2021-3	71.5	25.7	48.3	13.9	**159.5**	TWh
52-weeks total through w. 2022-3	**67.4** **(-6%)**	**33.6** **(30%)**	**51.3** **(6%)**	**15.4** **(11%)**	**167.2** **(5%)**	**TWh**

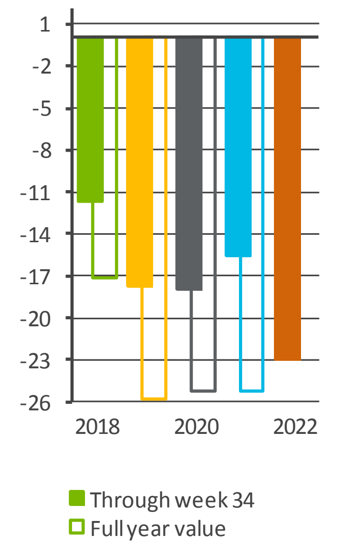
[2] Rolling annual value total of 52 weeks

Net import/export with countries outside Sweden

Source: Svenska kraftnät

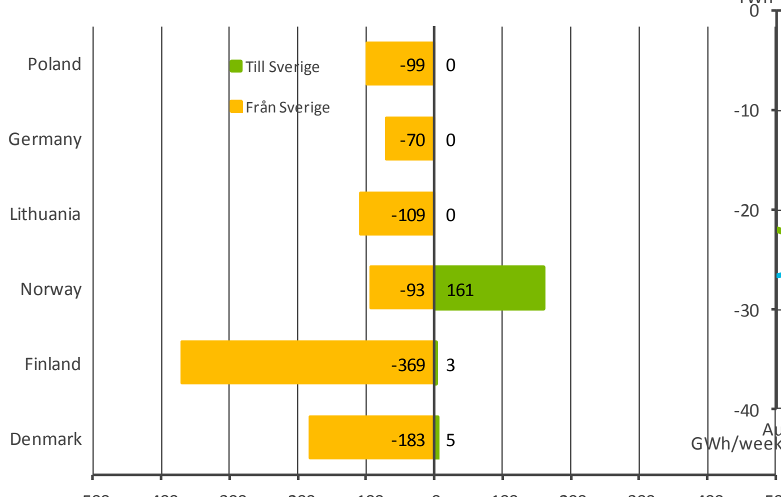


Total accumulated net flow



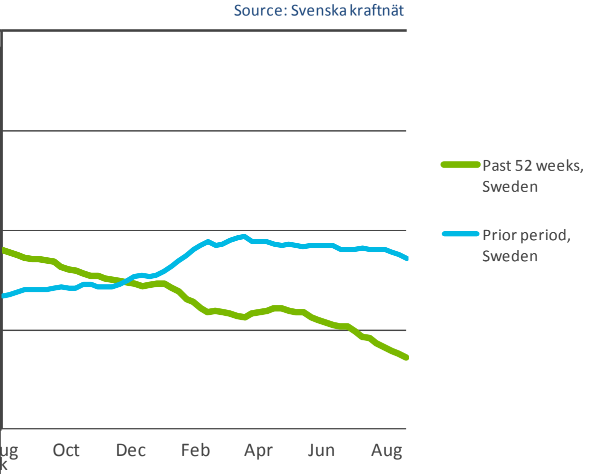
Import/export with countries outside Sweden

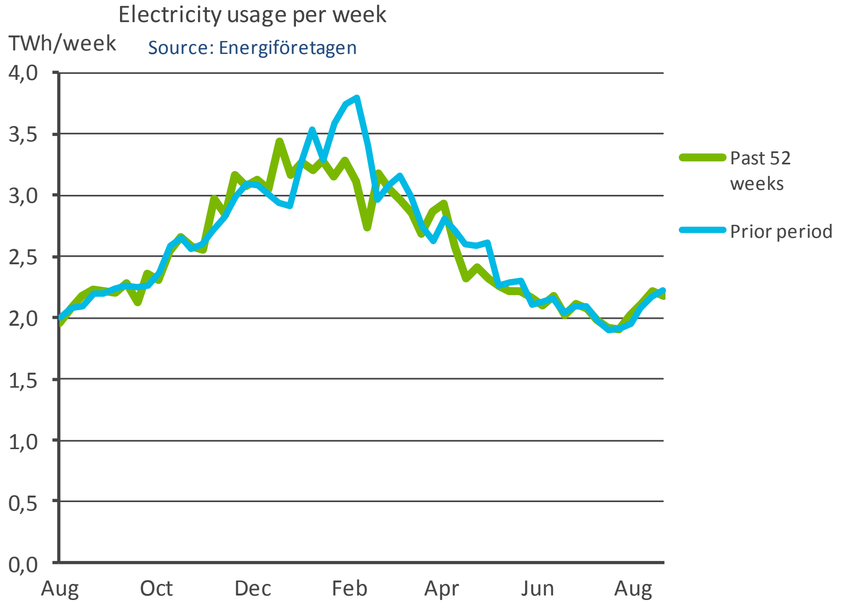
Source: Svenska kraftnät

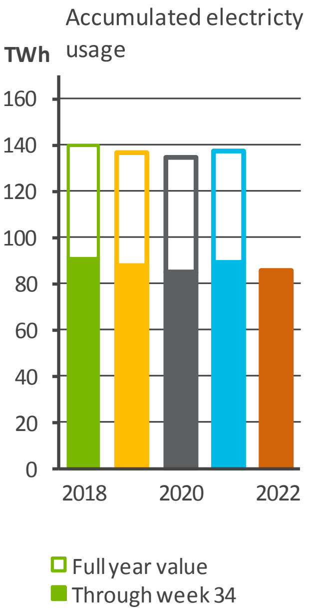


Net import/export with countries outside Sweden

Source: Svenska kraftnät







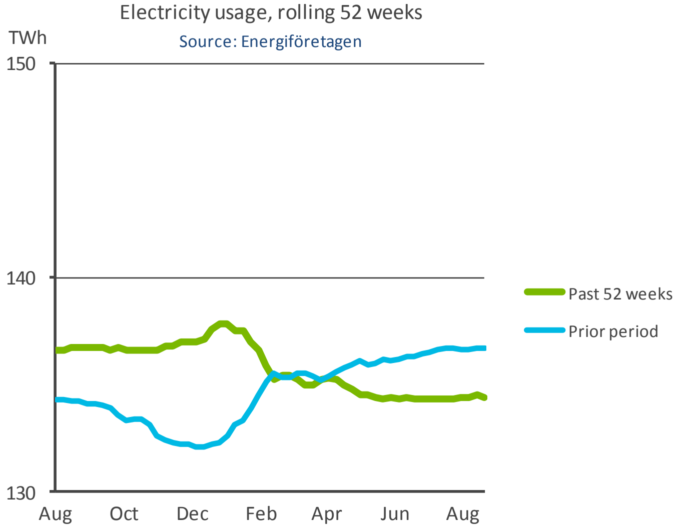
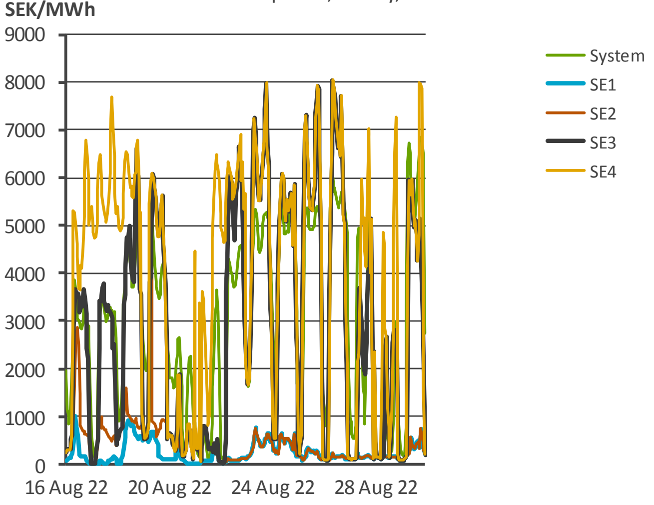


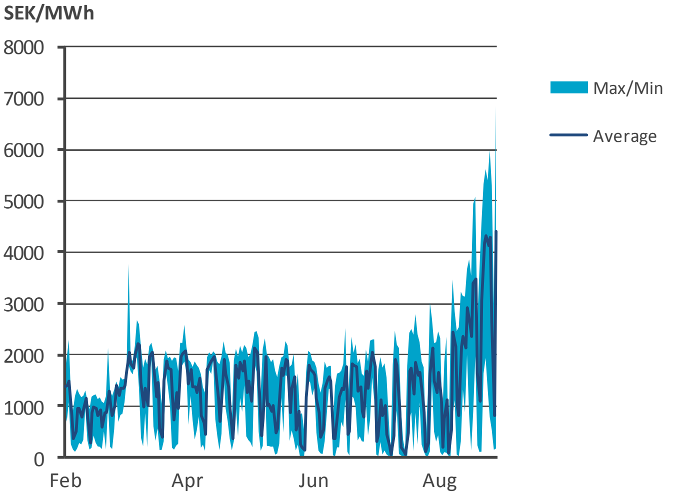
Table 2 **Sweden**	**Total production**	**Net import/export**	**Domestic usage Result**	**Domestic usage Temp-adj.**	
2020-33	2,306	-230	2,076	2,076	GWh
2020-34	2,218	-120	2,098	2,098	GWh
2021-33	2,567	-393	2,174	2,110	GWh
2021-34	2,625	-400	2,225	2,185	GWh
2022-33	2,900	-688	2,212	2,212	GWh
2022-34	**2,935 (12%)**	**-754 (89%)**	**2,181 (-2%)**	**2,181 (-0%)**	**GWh**
The values in brackets represent the current period in relation to a prior period					
Cum[1]. through w.2020-34	103.5	-18.0	85.4	91.5	TWh
Cum. through w.2021-34	104.9	-15.7	89.2	91.9	TWh
Cum. through w.2022-34	**108.9 (4%)**	**-23.1 (47%)**	**85.8 (-4%)**	**90.5 (-2%)**	**TWh**
[1] Cumulative sum value from the beginning					
52-weeks[2] total through w. 2020-:	160.4	-26.2	134.2	141.7	TWh
52-weeks total through w. 2021-3	159.5	-22.8	136.7	143.3	TWh
52-weeks total through w. 2022-:	**167.2 (5%)**	**-32.8 (44%)**	**134.4 (-2%)**	**140.2 (-2%)**	**TWh**

2 Rolling annual value total of 52 weeks

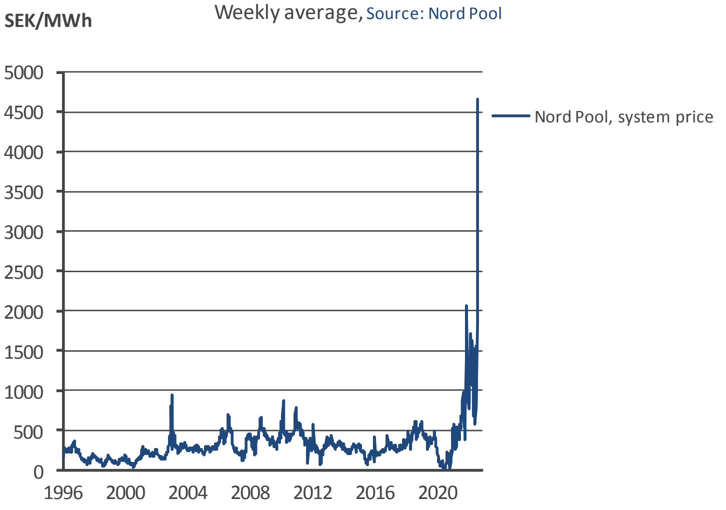
Elspot system price on Nord Pool exchange
and Swedish area prices, hourly, Source: Nord Pool



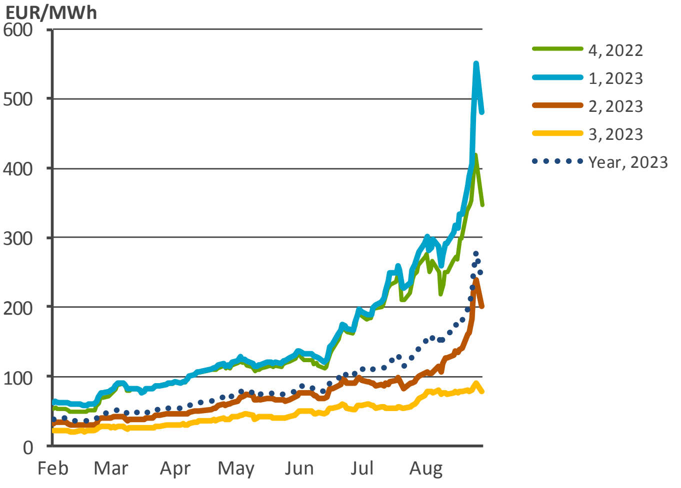
Elspot system price on Nord Pool exchange
Daily average and max. - min. interval, Source: Nord Pool



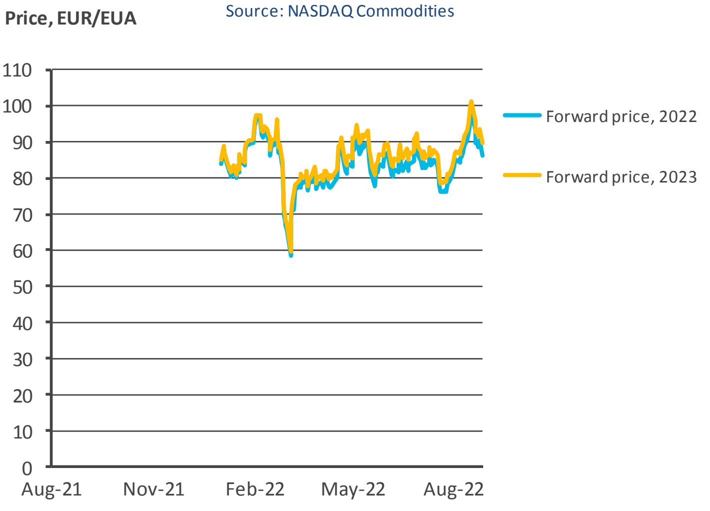
Elspot system price on Nord Pool exchange
Weekly average, Source: Nord Pool

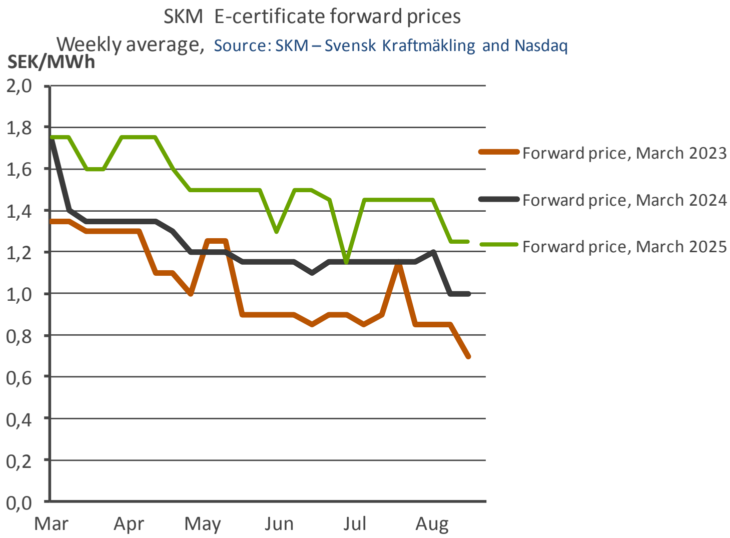


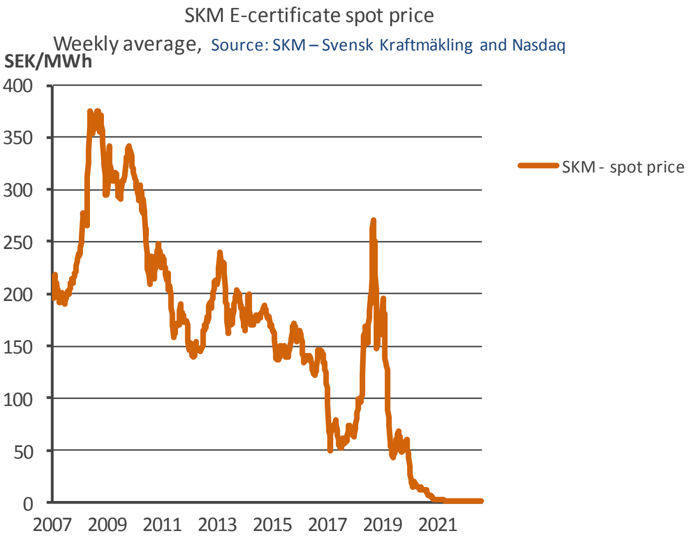
NASDAQ Commodities forward price by quarter 2022
and full year 2023, Source: NASDAQ Commodities

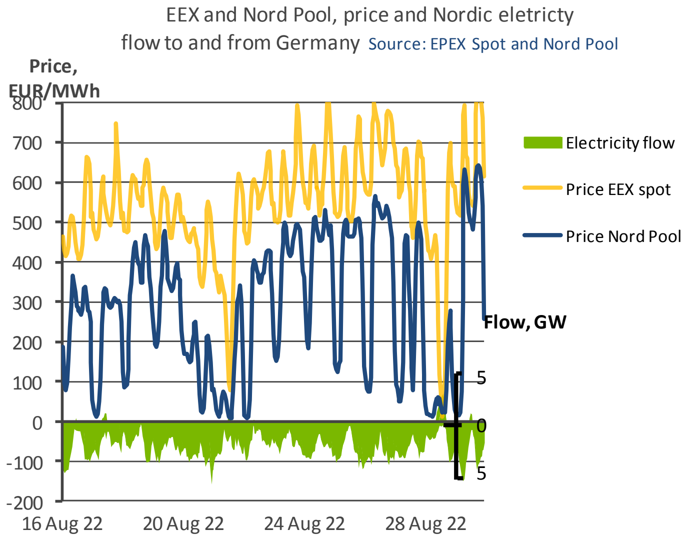


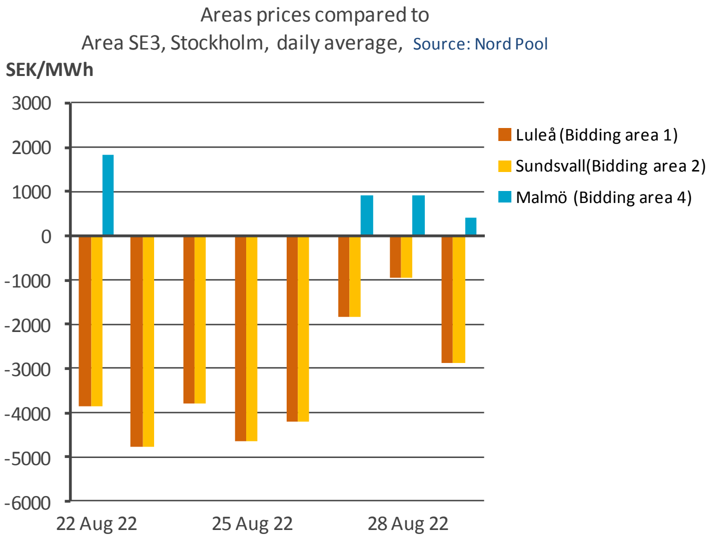
Trade with carbon emission allowances
Source: NASDAQ Commodities

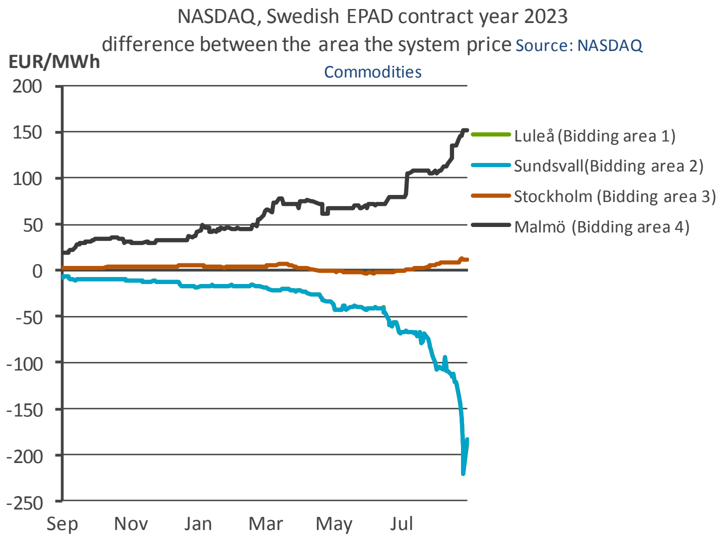



SKM E-certificate forward prices
Weekly average, Source: SKM – Svensk Kraftmäkling and Nasdaq
SEK/MWh
2,0
1,8
1,6
1,4
1,2
1,0
0,8
0,6
0,4
0,2
0,0
Mar
Apr
May
Jun
Jul
Aug
Forward price, March 2023
Forward price, March 2024
Forward price, March 2025


SKM E-certificate spot price
Weekly average, Source: SKM – Svensk Kraftmäkling and Nasdaq
SEK/MWh
400
350
300
250
200
150
100
50
0
2007
2009
2011
2013
2015
2017
2019
2021
SKM - spot price


EEX and Nord Pool, price and Nordic eletricty flow to and from Germany Source: EPEX Spot and Nord Pool
Price, EUR/MWh
800
700
600
500
400
300
200
100
0
-100
-200
16 Aug 22
20 Aug 22
24 Aug 22
28 Aug 22
Flow, GW
5
0
5
Electricity flow
Price EEX spot
Price Nord Pool


Areas prices compared to Area SE3, Stockholm, daily average, Source: Nord Pool
SEK/MWh
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
22 Aug 22
25 Aug 22
28 Aug 22
Luleå (Bidding area 1)
Sundsvall(Bidding area 2)
Malmö (Bidding area 4)


NASDAQ, Swedish EPAD contract year 2023
difference between the area the system price Source: NASDAQ Commodities
EUR/MWh
200
150
100
50
0
-50
-100
-150
-200
-250
Sep
Nov
Jan
Mar
May
Jul
Luleå (Bidding area 1)
Sundsvall(Bidding area 2)
Stockholm (Bidding area 3)
Malmö (Bidding area 4)