



# Vattenfall 9M and Q3 Results 2024

31 October 2024



VATTENFALL

# Vattenfall 9M Results 2024

## In brief

- Inauguration of the offshore wind farms Vesterhav Nord and Syd in Denmark and the onshore wind farm Windplanblauw in the Netherlands
  - Decision to pause the development of the offshore wind power project Swedish Kriegers Flak
  - New power purchase agreement for wind power has been signed with the steel producer Salzgitter in Germany
  - Collaboration initiated with Industrikraft to evaluate possibilities for joint investments in new fossil-free electricity generation in Sweden
  - Final decision from the Energy Market Inspectorate on revenue frames for the regulatory period 2020-2023
- Underlying EBIT increased by SEK 3.7 bn to SEK 19.3 bn:
    - Higher achieved electricity prices in the Nordics despite lower spot prices, mainly due to price hedging
    - Higher profit for the heat business in Berlin, which is consolidated until 2 May 2024
    - A lower contribution from the heat operations in the Netherlands had an offsetting impact
- Profit for the period increased by SEK 23.6 bn to SEK 28.3bn. Capital gains from the sale of 49% of the Nordlicht I and II offshore wind projects and the sale of the Norfolk Offshore Wind Zone had a positive impact in combination with changes in fair value of energy derivatives and inventories as well as a higher return from the nuclear waste fund



# Vattenfall 9M Results 2024

## Overview

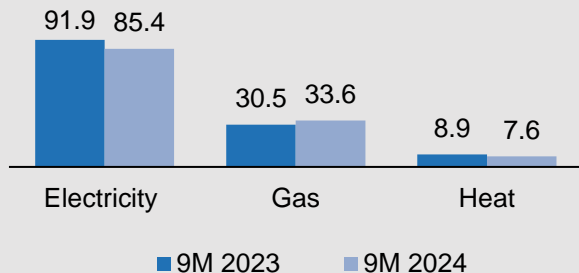
### Result development

SEK BN	9M 2024	9M 2023	Δ
Net Sales	177.1	216.9	-18%
EBITDA	50.1	29.8	68%
Underlying operating profit (EBIT)	19.3	15.6	24%
EBIT	33.8	10.9	209%
Profit for the period	28.3	4.7	497%

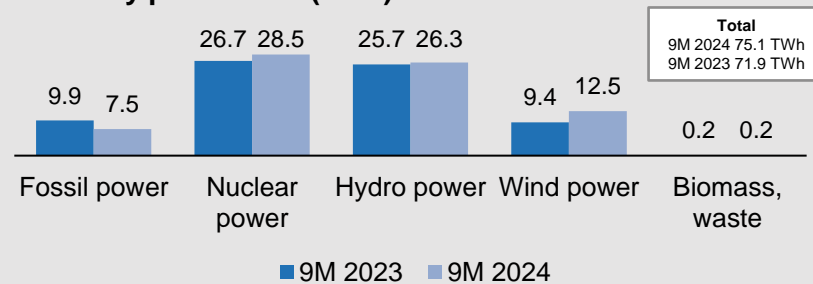
### Financial targets

	9M 2024	9M 2023
Return on capital employed (≥8%)	13.3%	-4.6%
FFO/adjusted net debt (22-27%)	46.7%	30.9%

### Customer sales (TWh)



### Electricity production (TWh)



# Customers & Solutions

Supporting our customers with flexible products and renewable electricity

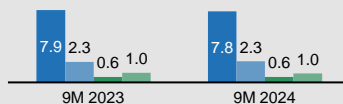
## Highlights

SEK million	9M 2024	9M 2023
Net Sales	137,220	174,875
Underlying operating profit	5,661	7,600
-of which heat operations	36	1,496

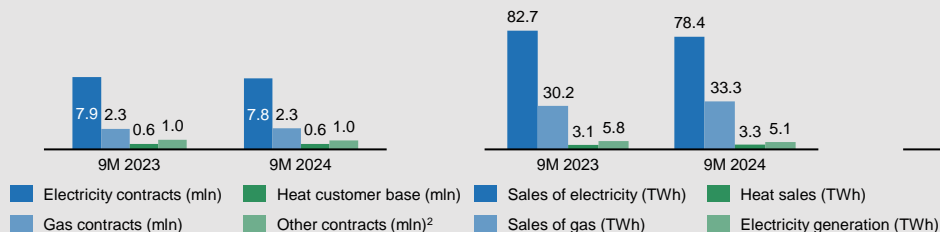
- Net sales decreased by 22%. Underlying operating profit decreased by 26% largely owing to lower gas prices, which led to lower electricity and heat prices that negatively affected the condensing and heat business in the Netherlands.
- The total customer base decreased by 2% to 12 million customers largely owing to the sale of Vindstød in 2024
- Extended agreement with Microsoft for delivery of renewable electricity
- Smart charging of electric vehicles has been tested in the Netherlands

## Key data<sup>1</sup>

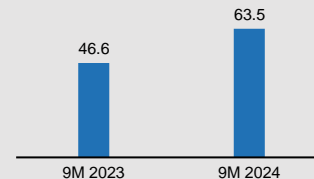
Retail sales development



Sales and production



Charging points for electric vehicles (thousand)



<sup>1</sup> Excluding the divested heat business in Berlin

<sup>2</sup> Other includes the subsidiary Feenstra that offers energy solutions in the Netherlands

# Power Generation

Earnings improvement as a result of higher achieved electricity price in the Nordics

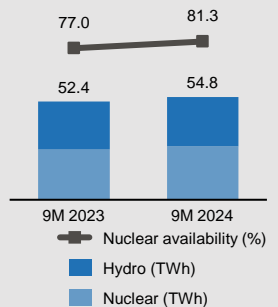
## Highlights

SEK million	9M 2024	9M 2023
Net Sales	118,693	156,526
Underlying operating profit	6,783	3,008

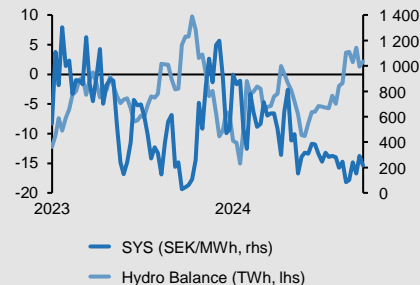
- Net sales decreased by 24%. Underlying operating profit increased by 125% mainly related to positive price effects from Nordic hedges which more than offset the lower electricity prices, as well as higher production volumes. A lower realised trading result had a slightly offsetting effect.
- Increased electricity generation from nuclear power (+1.8 TWh) and hydro power (+0.5 TWh)
- Continued work to enable new nuclear power at Ringhals
- New power purchase agreement for wind power has been signed with the steel producer Salzgitter in Germany

## Key data

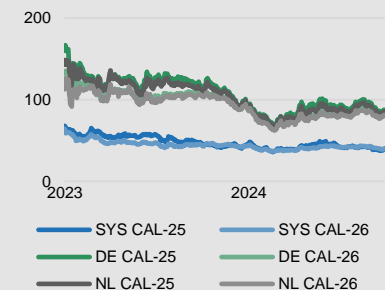
Production and availability



Nordic hydro balance and system price



Electricity futures prices (EUR/MWh)



# Wind

## Increased electricity generation and inauguration of new wind farms

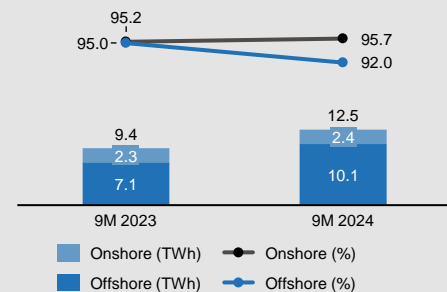
### Highlights

SEK million	9M 2024	9M 2023
Net Sales	14,925	19,272
Underlying operating profit	3,690	4,297

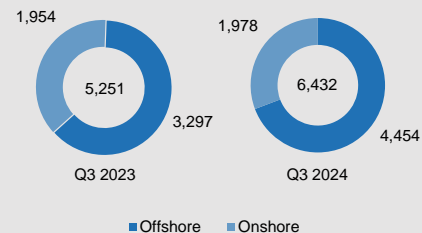
- Net sales decreased by 23% compared to 2023. Underlying operating profit decreased by 14% driven by lower electricity prices, lower income from sales of projects that have been developed to be sold as well as higher costs and depreciation. This was partly offset by higher generated volumes.
- Electricity generation increased by 32% mainly as a result of higher volumes from the new offshore wind farms Hollandse Kust Zuid and Vesterhav
- Inauguration of the offshore wind farms Vesterhav Nord and Syd in Denmark and the onshore wind farm Windplanblauw in the Netherlands
- Decision to pause the development of the offshore wind power project Swedish Kriegers Flak
- CfD awarded for the onshore wind farm Clashindarroch II and the solar farm Kemberton in the UK

### Key data

Production and availability



Total installed wind capacity (MW) <sup>1</sup>



<sup>1</sup> Added capacity during the last 12 months includes Hollandse Kust Zuid (814 MW of 1,520 MW), Vesterhav (344 MW) and Windplanblauw (77 MW)

# Distribution

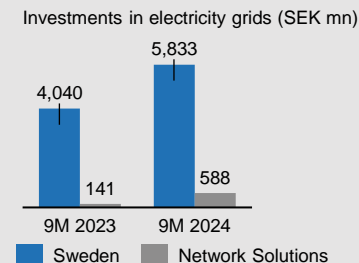
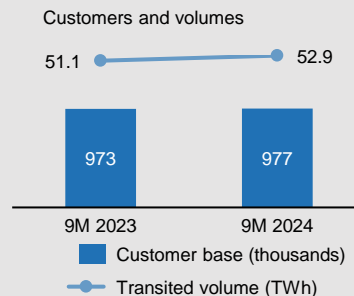
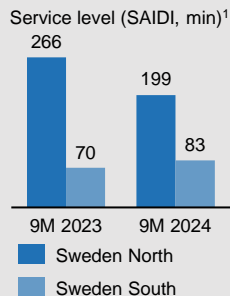
Improvement in earnings as a result of higher revenues

## Highlights

SEK million	9M 2024	9M 2023
Net Sales	10,131	8,406
Underlying operating profit	1,843	1,464

- Net sales increased by 21%. Underlying operating profit increased by 26%. This is primarily due to higher revenues, partly as a result of the temporary reduction of the electricity grid tariff made during second half of 2023
- New concessions has been awarded within the framework of the Capacity Stockholm program
- Project to strengthen the electricity grid in the region of Arboga-Kungsör is entering a new phase after denied leave to appeal by the Land and Environment Court of Appeal
- Final decision from the Energy Market Inspectorate on revenue frames for regulatory period 2020-2023

## Key data



<sup>1</sup> All outages longer than 1 second in medium and low voltage networks are included. Vattenfall's Swedish network covers both urban areas and large rural areas.

# Financials



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# Vattenfall 9M Results 2024

## Financial highlights

### Key data

SEK bn	9M 2024	9M 2023
Net Sales	177.1	216.9
EBITDA	50.1	29.8
Underlying operating profit (EBIT)	19.3	15.6
EBIT	33.8	10.9
Profit for the period	28.3	4.7
Funds from Operations (FFO)	26.0	21.9
Cash flow operating activities	45.3	-9.5
Net debt	3.2	38.2
Adjusted net debt	73.3	118.0
Adjusted net debt/EBITDA <sup>1</sup> (times)	1.2	10.5
<b>Financial targets</b>		
ROCE <sup>1</sup> (≥8%)	13.3	-4.6
FFO/adjusted net debt <sup>1</sup> (22-27%)	46.7	30.9

### Key developments

- Net sales decreased by SEK 39.8 bn to SEK 177.1 bn mainly due to negative price effects for sales of electricity and gas as well as the divestment of the heat operations in Berlin
- Underlying EBIT increased by SEK 3.7 bn to SEK 19.3 bn mainly as a result of higher achieved electricity price in the Nordics and higher profit for the divested heat operation in Berlin that is consolidated until the beginning of May 2024. Lower margin in the heat operations had a negative impact
- Profit for the period increased to SEK 28.3 bn and was impacted by positive changes in fair value of energy derivatives, capital gains from divestment of offshore wind power projects as well as higher return from the Swedish Nuclear Waste Fund
- ROCE based on rolling 12-month figures increased to 13.3%, mainly due to positive changes in market value of energy derivatives and divestment of offshore wind power projects
- FFO/Adjusted net debt based on rolling 12-month figures increased to 46.7% due to lower adjusted net debt, mainly as a result of net received margin calls, the divestment of the heat operations in Berlin and the sale of offshore wind power projects



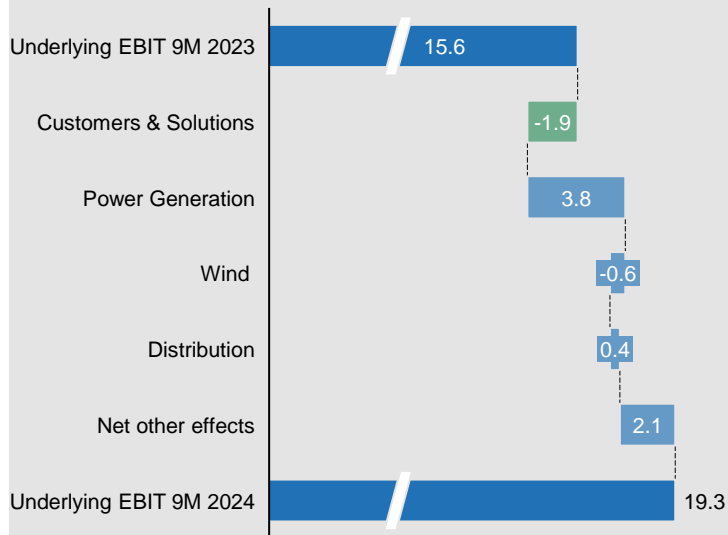
<sup>1</sup> Last 12-month values

# Development of underlying EBIT 9M 2024

Increase from Power Generation partly offset by lower earnings in Customers & Solutions

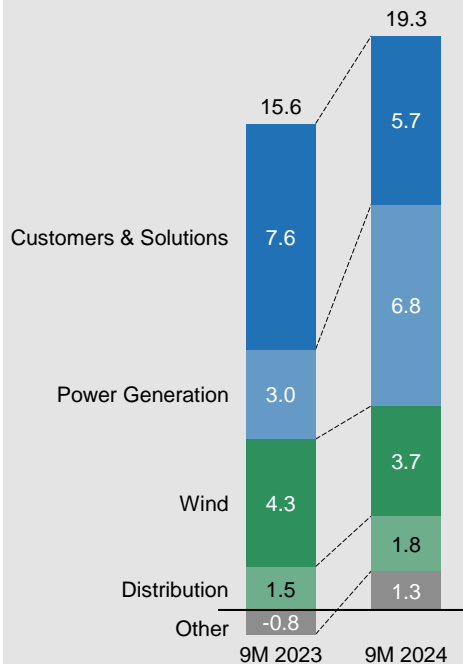
## Change in 9M 2024 vs. 9M 2023

SEK bn



## Breakdown per operating segment

SEK bn

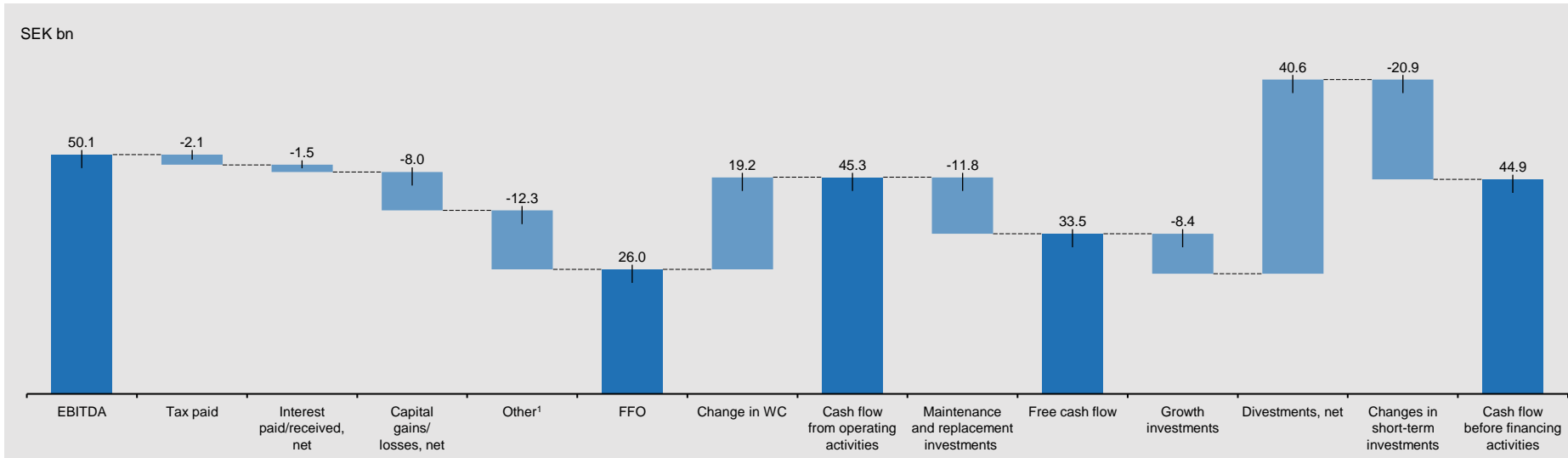


## Highlights

- Customers & Solutions: lower margins in the heat operations
- Power Generation: higher achieved electricity price as well as higher generation volumes from hydro and nuclear power
- Wind: lower electricity prices, lower income from sales of projects that have been developed to be sold, higher costs and higher depreciation
- Distribution: higher revenues which partly is a result of the temporary reduction of the electricity grid tariff made during the second half of 2023
- Other: primarily owing to a higher result from the heat business in Berlin, which was consolidated until 2 May 2024, although the effective date of the transaction was 31 December 2023

# Cash flow development 9M 2024

Positive cash flow effect from net margin calls received and divestments



## Main effects

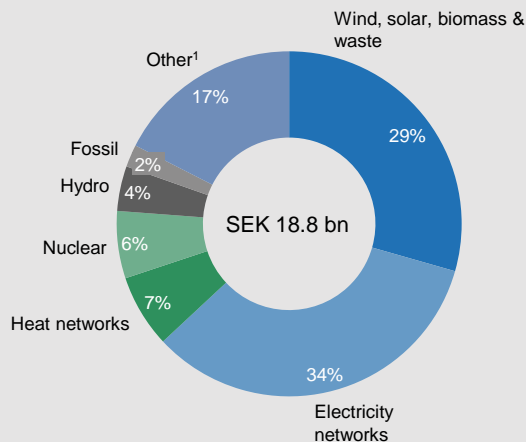
- Change in working capital is mainly driven by net changes in margin calls (SEK +20.0 bn) and lower working capital in operating segment Customers & Solutions (SEK +14.0 bn). This was partially offset by higher working capital in the heat operations in Berlin before the divestment (SEK -10.8 bn) and in operating segment Power Generation (SEK -4.8 bn)
- Divestments include heat operations in Berlin, Norfolk Offshore Wind Zone and the offshore wind power projects Nordlicht I & II in Germany
- Changes in short-term investments are related to purchases of short-term papers in order to offset the positive impact from the net change in margin calls received

<sup>1</sup> "Other" includes non-cash items included in EBITDA, mainly changes in fair value of commodity derivatives

# Capital expenditures

Majority of investments directed to renewables and electricity networks

Investments per category, 9M 2024



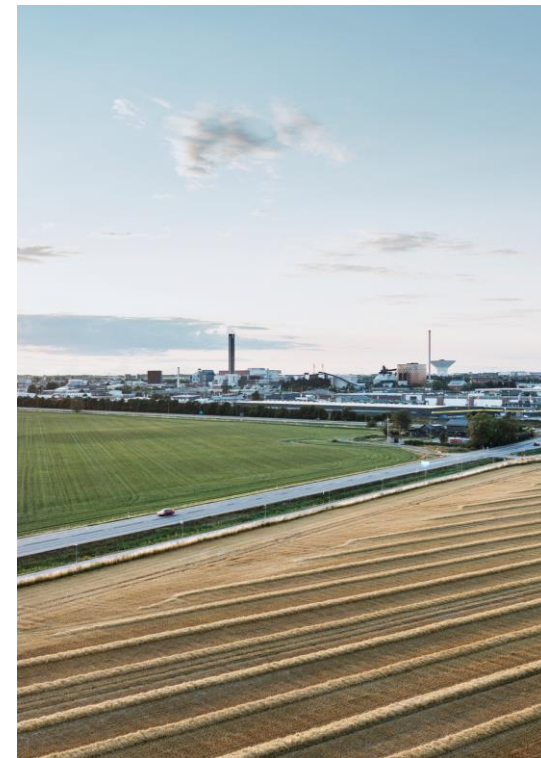
Detailed overview of investments, 9M & Q3 2024

SEK bn	9M 2024	9M 2023	Δ	Q3 2024	Q3 2023	Δ
Hydro	0.8	0.6	41%	0.3	0.2	41%
Nuclear	1.2	1.3	-7%	0.3	0.5	-35%
Fossil	0.4	0.6	-42%	0.0	0.3	-96%
Wind, solar, biomass & waste	5.6	15.4	-64%	1.3	3.6	-64%
Electricity networks	6.4	4.2	54%	2.4	1.5	58%
Heat networks	1.3	1.1	12%	0.4	0.5	-22%
Other	3.3	3.3	-2%	1.1	1.0	8%
<b>Total</b>	<b>18.8</b>	<b>26.5</b>	<b>-29%</b>	<b>5.7</b>	<b>7.5</b>	<b>-24%</b>

¹ For example investments in e-mobility, IT and e-boilers

# Overview of key figures 9M and Q3 2024

Amounts in SEK bn unless indicated otherwise	9M 2024	9M 2023	Q3 2024	Q3 2023
Net sales	177.1	216.9	48.6	58.3
EBITDA	50.1	29.8	6.7	2.6
EBIT	33.8	10.9	1.2	-2.6
Underlying operating profit (EBIT)	19.3	15.6	1.4	0.9
Profit for the period	28.3	4.7	2.1	-2.2
Electricity generation (TWh)	75.1	71.9	21.1	19.9
Sales of electricity (TWh)	119.2	121.9	35.7	36.9
- of which, customer sales (TWh)	85.4	91.9	25.9	29
Sales of heat (TWh)	7.6	8.9	0.5	0.9
Sales of gas (TWh)	33.6	30.5	5.4	4.6
Return on capital employed <sup>1</sup> (≥8%)	13.3	-4.6	13.3	-4.6
FFO/adjusted net debt <sup>1</sup> (22-27%)	46.7	30.9	46.7	30.9



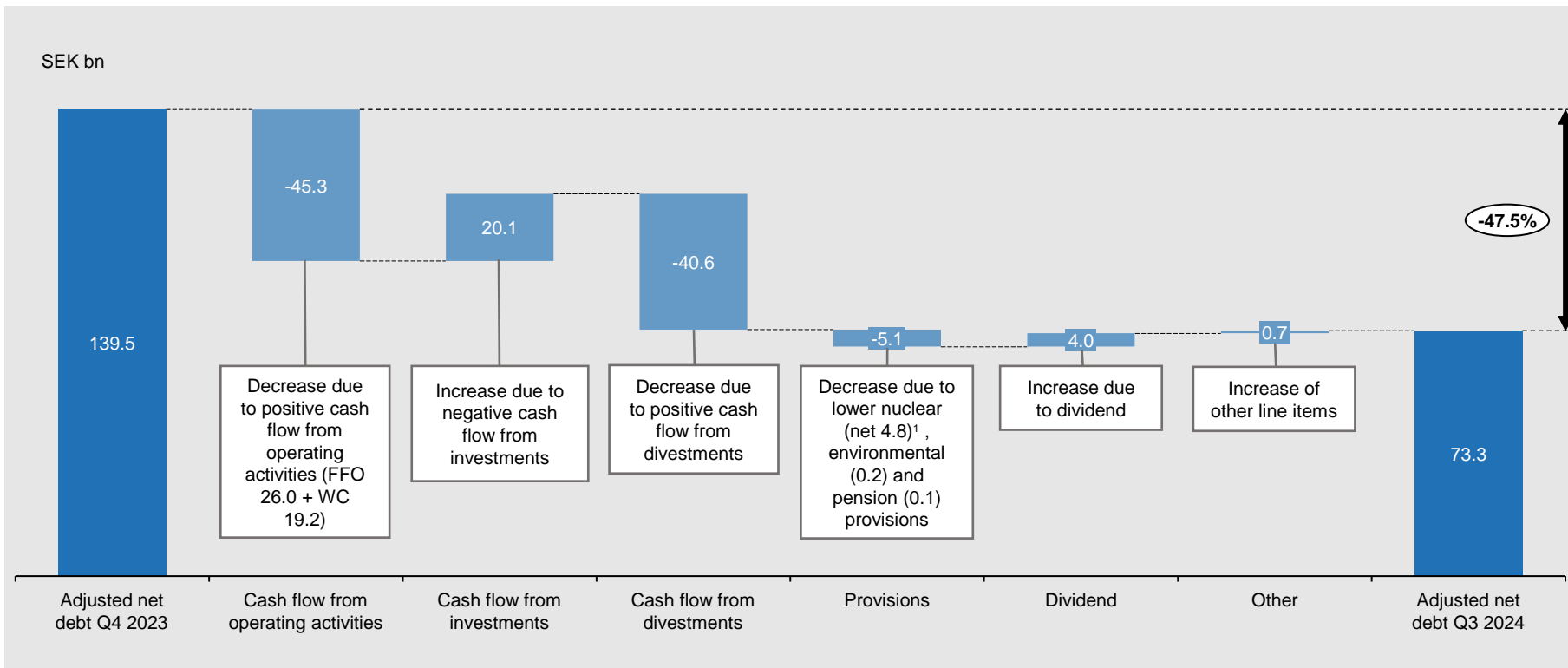
<sup>1</sup> Last 12-month values

# Appendix



# Development of adjusted net debt YTD 2024

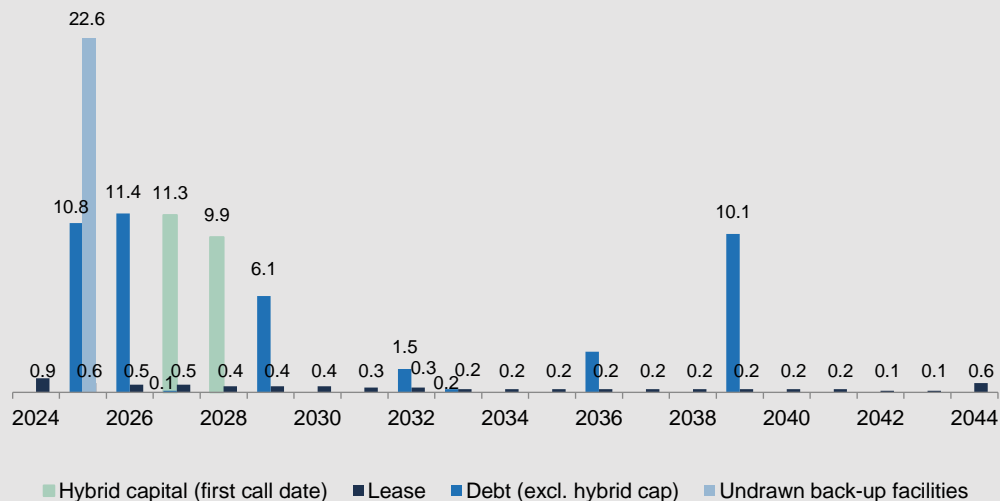
Adjusted net debt decreased mainly due to positive cashflow from operating activities and divestments.



<sup>1</sup> Nuclear provision decreased net by SEK 4.8 bn, whereof in Sweden by 3.9, mainly due to higher return from nuclear waste fund (3.5), and in Germany by 0.9.

# Debt maturity profile<sup>1</sup>

SEK bn



	30 Sep. 2024	31 Dec. 2023
Duration (years)	4.8	3.5
Average time to maturity (years)	5.0	4.2
Average interest rate (%)	3.6	3.9
Net debt (SEK bn)	3.2	68.4
Available group liquidity (SEK bn)	72.8	46.8
Undrawn committed credit facilities (SEK bn)	22.6	33.3

## Cumulative maturities excl. undrawn back-up facilities

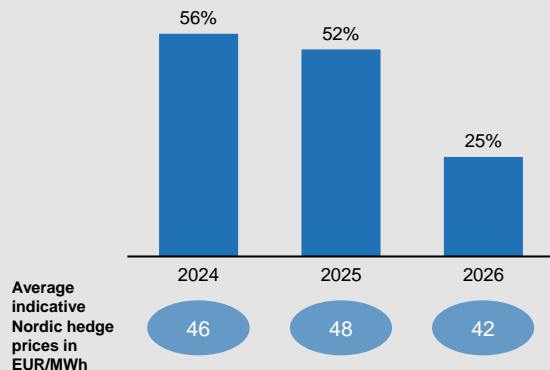
	2024-2026	2027-2029	From 2030
Debt incl. hybrid capital	24.3	28.7	18.1
<i>% of total</i>	34%	40%	26%

<sup>1</sup> Short term debt (Commercial paper and Repo's: 0.0), loans from associated companies, minority owners, margin calls received (CSA) and valuation at fair value are excluded. Currency derivatives for hedging debt in foreign currency are included.



# Price hedging

Estimated Nordic<sup>1</sup> hedge ratio (%) and indicative prices



Achieved prices<sup>2</sup> - Nordic portfolio

YTD 2024	YTD 2023	Q3 2024	Q3 2023	FY 2023
42	35	35	28	37

Vattenfall's price hedging strategy is primarily focused on the Nordic generation assets because the primary risk exposure is linked to base production of nuclear power and hydro power. The degree of hedging is highest for the next few years and decreases thereafter. Hedging is mainly based on the Nordic system price (SYS) while delivery takes place in the price areas where generation assets are located. The achieved price in the first nine months 2024 increased compared with the same period in 2023 due to a significantly higher hedge price as well as less negative EPADs (Electricity Price Area Differentials).

<sup>1</sup> Nordic: SE, DK, FI

<sup>2</sup> Achieved prices from the spot market and hedges. Includes Nordic (SE, DK, FI) hydro, nuclear and wind power generation

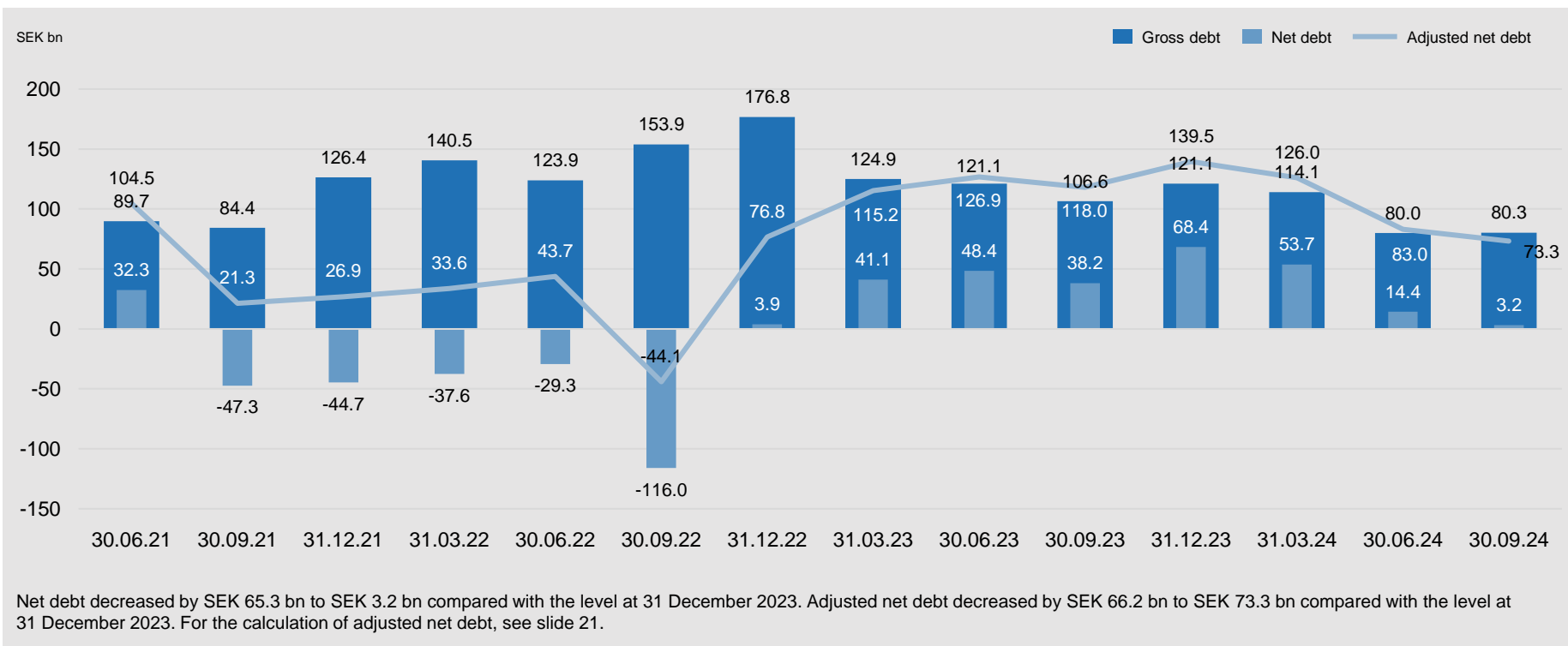
# Liquidity position

<b>Group liquidity</b>	<b>SEK bn</b>	<b>Committed credit facilities</b>	<b>Facility size, EUR bn</b>	<b>SEK bn</b>
Cash and cash equivalents	32.7	RCF (2025)	2.0	22.6
Short term investments	44.1	<b>Total undrawn</b>		<b>22.6</b>
<b>Reported cash, cash equivalents &amp; short-term investments</b>	<b>76.8</b>			
		<b>Debt maturities<sup>2</sup></b>		<b>SEK bn</b>
Unavailable liquidity <sup>1</sup>	-4.0	Within 90 days		0.9
<b>Available liquidity</b>	<b>72.8</b>	Within 180 days		1.0

<sup>1</sup> German nuclear "Solidarvereinbarung" 1.1 SEK bn, Margin calls paid (CSA) 2.1 SEK bn, Insurance "Provisions for claims outstanding" 0.8 SEK bn.

<sup>2</sup> Excluding loans from minority owners and associated companies.

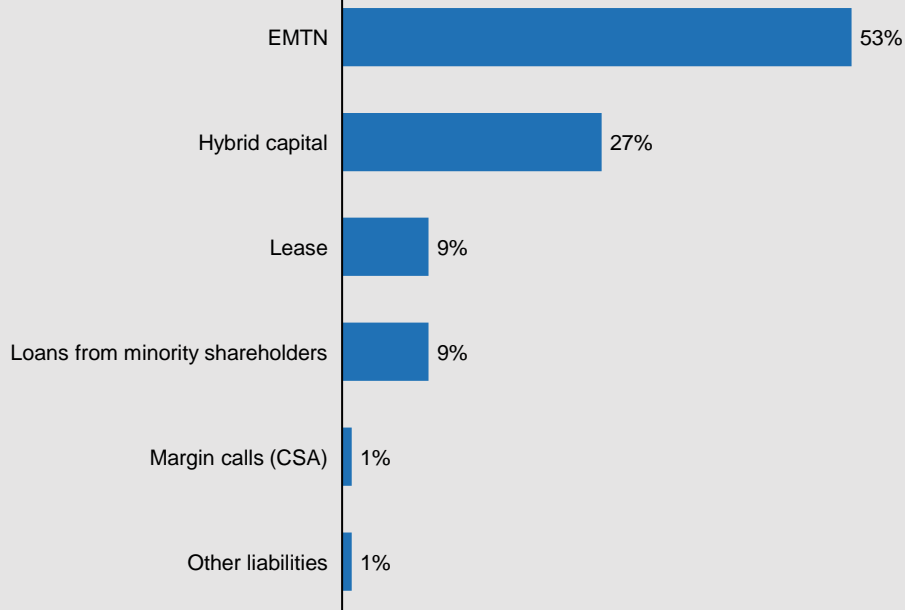
# Debt development



# Breakdown of gross debt

Total debt: SEK 80.3 bn (EUR 7.1 bn)

External market debt: SEK 72.6 bn (EUR 6.4 bn)



Debt issuing programmes	Size (EUR bn)	Utilization (EUR bn)
EUR 10bn Euro MTN	10.0	3.7
EUR 10bn Euro CP	10.0	0.1
Total	20.0	3.8

- All public debt is issued by Vattenfall AB.
- The main part of debt portfolio has no currency exposure that has an impact on the income statement. Debt in foreign currency is either swapped to SEK or booked as hedge against net foreign investments.
- No structural subordination.

<sup>1</sup> EMTN= Euro Medium Term Notes

# Reported and adjusted net debt

Reported net debt (SEK bn)	30 Sep. 2024	31 Dec. 2023	Adjusted net debt (SEK bn)	30 Sep. 2024	31 Dec. 2023
Hybrid capital	21.6	21.0	Total interest-bearing liabilities	80.3	121.1
Bond issues and liabilities to credit institutions	42.7	62.0	50% of Hybrid capital	-10.8	-10.5
Commercial papers and Repos	0.0	20.1	Present value of pension obligations	28.0	28.1
Liabilities to associated companies	0.4	0.7	Wind & other environmental provisions	15.2	15.4
Liabilities to minority shareholders	7.3	10.1	Provisions for nuclear power (net)	41.2	46.0
Lease liabilities	6.9	6.3	Margin calls received	-0.5	-0.3
Other liabilities	1.4	1.0	Liabilities to minority owners due to consortium agreements	-7.3	-10.1
<b>Total interest-bearing liabilities</b>	<b>80.3</b>	<b>121.1</b>	Adjustment related to assets/liabilities held for sale	0.0	-3.4
Reported cash, cash equivalents & short-term investments	76.8	52.3	<b>= Adjusted gross debt</b>	<b>146.2</b>	<b>186.3</b>
Loans to minority owners of foreign subsidiaries	0.4	0.4	Reported cash, cash equivalents & short-term investments	76.8	52.3
<b>Net debt</b>	<b>3.2</b>	<b>68.4</b>	Unavailable liquidity	-4.0	-5.4
			<b>= Adjusted cash, cash equivalents &amp; short-term investments</b>	<b>72.8</b>	<b>46.8</b>
			<b>= Adjusted net debt</b>	<b>73.3</b>	<b>139.5</b>

# Nuclear provisions

Reactor <sup>1</sup>	Net capacity (MW)	Start (year)	Vattenfall share (%)	Vattenfall provisions, SEK bn (IFRS accounting)	Vattenfall provisions, SEK bn (pro rata)	Sw nuclear waste fund SEK bn (Vattenfall pro rata share)
Ringhals 1	879	1976	70.4			
Ringhals 2	809	1975	70.4			
Ringhals 3	1,070	1981	70.4			
Ringhals 4	942	1983	70.4	<b>Total Ringhals: 42.3</b>	<b>Total Ringhals: 42.3<sup>2</sup></b>	
Forsmark 1	984	1980	66.0			
Forsmark 2	1,120	1981	66.0			
Forsmark 3	1,170	1985	66.0	<b>Total Forsmark: 39.8</b>	<b>Total Forsmark: 26.3</b>	
<b>Total Sweden</b>	<b>6,974</b>	<b>-</b>		<b>85.7<sup>3</sup></b>	<b>70.4<sup>3</sup></b>	<b>46.9<sup>4</sup></b>
Brunsbüttel	771	1977	66.7	10.8	7.2	
Brokdorf	1,410	1986	20.0	-	3.1	
Krümmel	1,346	1984	50.0	7.5	7.5	
Stade	640	1972	33.3	-	0.3	
<b>Total Germany</b>	<b>4,167</b>	<b>-</b>	<b>-</b>	<b>18.3</b>	<b>18.1</b>	
<b>Total SE &amp; DE</b>	<b>11,141</b>			<b>104.0</b>	<b>88.6</b>	

<sup>1</sup> Five reactors are in commercial operation in Sweden; Ringhals 3 & 4 and Forsmark 1, 2 & 3. Ringhals 1 & 2 and all reactors in Germany are taken out of commercial operation. Stade is being dismantled.

<sup>2</sup> Vattenfall is 100% liability of Ringhals decommissioning, while owning only 70.4%

<sup>3</sup> Total provisions in Sweden (IFRS accounting) include provisions of SEK 0.3 bn (pro rata SEK 0.3 bn) related to Ägesta, SEK 3.0 bn (pro rata SEK 1.6 bn) related to SVAFO and SEK 0.3 bn (pro rata SEK 0.0 bn) related to SKB.

<sup>4</sup> Vattenfall's share of the Nuclear Waste Fund. IFRS consolidated value is SEK 56.3 bn.

# Impairments and items affecting comparability

Amounts in SEK million	Jan-Sep 2024	Jan-Sep 2023	Full year 2023	Last 12 months
Items affecting comparability	14,531	- 4,620	- 3,014	16,137
- of which, capital gains	9,772	207	240	9,805
- of which, capital losses	- 1,734	- 32	- 184	- 1,886
- of which, impairment losses	- 1,333	- 3,768	- 6,520	- 4,085
- of which, reversed impairment losses	-	-	4,161	4,160
- of which, provisions	316	- 2,058	1,243	3,681
- of which, changes in the fair value of energy derivatives	6,660	1,385	- 1,594	3,681
- of which, changes in the fair value of inventories	855	-345	- 662	538
- of which, other non-recurring items affecting comparability	- 5	- 9	302	306

## Major items Jan-Sep 2024

- Capital gain from the sale of 49% of the Nordlicht I & II offshore wind farms (SEK 5.1 bn)
- Capital gain (SEK 4.6 bn) from the sale of Norfolk Offshore Wind Zone in the United Kingdom
- Capital loss from the divestment of Heat Berlin (SEK -1.7bn). The positive operational result of the heating business in Berlin during the period January 1 to May 2 2024 explains the capital loss
- Unrealised changes in the fair value of energy derivatives and inventories (SEK 7.5 bn)

## Impairment losses and reversed impairment losses

- Discussions with the State of Berlin during the first quarter 2024 led to an adjustment of the expected purchase price which resulted in an impairment of Assets held for sale related to Heat Berlin amounting to SEK 958 million.
- An impairment of SEK 345 million related to the offshore wind project Swedish Kriegers Flak was recognized in the third quarter 2024. The future profitability of the project has been negatively impacted by cost increases in supply chain and cost for grid connection which together with the decision to pause the project triggered an impairment assessment of the capitalized project costs.
- No previously recognised impairment losses have been reversed in the income statement during the first three quarters 2024.

# Wind & Solar - Installed capacity (MW<sup>1</sup>) Q3 2024

	Solar	Onshore	Offshore	Batteries	Total
United Kingdom	-	623	685	77	1,385
Denmark	-	196	1,514	-	1,710
The Netherlands	65	515	1,509	-	2,089
Sweden	-	638	110	-	748
Germany	9	7	636	-	652
<b>Total (MW)</b>	<b>74</b>	<b>1,978</b>	<b>4,454</b>	<b>77</b>	<b>6,583</b>

<span style="color: #2e7d32;">■</span> Batteries
<span style="color: #8e24aa;">■</span> Solar
<span style="color: #4db6ac;">■</span> Onshore
<span style="color: #2196f3;">■</span> Offshore

United Kingdom	
<span style="color: #2196f3;">■</span> Thanet	300
<span style="color: #2196f3;">■</span> Ormonde (51%)	150
<span style="color: #2196f3;">■</span> Aberdeen	96
<span style="color: #2196f3;">■</span> Kentish Flats	90
<span style="color: #2196f3;">■</span> Kentish Flats Extension	50
<span style="color: #4db6ac;">■</span> South Kyle (0%, AMA <sup>2</sup> )	240
<span style="color: #4db6ac;">■</span> Pen Y Cymoedd	228
<span style="color: #4db6ac;">■</span> Ray	54
<span style="color: #4db6ac;">■</span> Edinbane	41
<span style="color: #4db6ac;">■</span> Clashindarroch	37
<span style="color: #4db6ac;">■</span> Swinford	22
<span style="color: #2e7d32;">■</span> Battery@Ray	55
<span style="color: #2e7d32;">■</span> Battery@PyC	22
<b>Installed capacity (MW)</b>	<b>1,385</b>

Sweden	
<span style="color: #2196f3;">■</span> Lillgrund	110
<span style="color: #4db6ac;">■</span> Blakliden + Fäbodberget (30%)	353
<span style="color: #4db6ac;">■</span> Stor-Rotliden	78
<span style="color: #4db6ac;">■</span> Grönhult (0%, AMA <sup>2</sup> )	67
<span style="color: #4db6ac;">■</span> Högabjär-Kärsås (50%)	38
<span style="color: #4db6ac;">■</span> Höge Väg (50%)	37
<span style="color: #4db6ac;">■</span> Hjuleberg (50%)	36
<span style="color: #4db6ac;">■</span> Juktan (50%)	29
<b>Installed capacity (MW)</b>	<b>748</b>

Denmark	
<span style="color: #2196f3;">■</span> Kriegers Flak	605
<span style="color: #2196f3;">■</span> Horns Rev 3	407
<span style="color: #2196f3;">■</span> Horns Rev 1 (60%)	158
<span style="color: #2196f3;">■</span> Vesterhav	344
<span style="color: #4db6ac;">■</span> Klim (98%)	67
<span style="color: #4db6ac;">■</span> Nørrekær Enge 1 (99%)	30
<span style="color: #4db6ac;">■</span> Rejsby Hede	23
<span style="color: #4db6ac;">■</span> Hagesholm	23
<span style="color: #4db6ac;">■</span> Tjæreborg Enge	17
<span style="color: #4db6ac;">■</span> Bajlum (89%)	15
<span style="color: #4db6ac;">■</span> DræbyFed	9
<span style="color: #4db6ac;">■</span> Ejsing (97%)	7
<span style="color: #4db6ac;">■</span> Lyngmose	5
<b>Installed capacity (MW)</b>	<b>1,710</b>

Germany	
<span style="color: #2196f3;">■</span> DanTysk (51%)	288
<span style="color: #2196f3;">■</span> Sandbank (51%)	288
<span style="color: #2196f3;">■</span> Alpha Ventus (26%)	60
<span style="color: #4db6ac;">■</span> Westküste (20%)	7
<span style="color: #8e24aa;">■</span> Decentral Solar installations	2
<span style="color: #8e24aa;">■</span> Geesthacht (0%)	2
<span style="color: #8e24aa;">■</span> Markersbach Damm (0%)	4
<b>Installed capacity (MW)</b>	<b>652</b>

The Netherlands	
<span style="color: #2196f3;">■</span> Hollandskust Zuid (51%)	1,509
<span style="color: #4db6ac;">■</span> Princess Ariane	184
<span style="color: #4db6ac;">■</span> Princess Alexia	122
<span style="color: #4db6ac;">■</span> Windplanblauw	77
<span style="color: #4db6ac;">■</span> A16 / Klaverspoor	34
<span style="color: #4db6ac;">■</span> Slufterdam	29
<span style="color: #4db6ac;">■</span> Moerdijk	27
<span style="color: #4db6ac;">■</span> Haringvliet	22
<span style="color: #4db6ac;">■</span> Echteld	8
<span style="color: #4db6ac;">■</span> Oom Kees (12%)	6
<span style="color: #4db6ac;">■</span> Oudendijk	5
<span style="color: #8e24aa;">■</span> Haringvliet	38
<span style="color: #8e24aa;">■</span> Kooypunt	12
<span style="color: #8e24aa;">■</span> Velsen	2
<span style="color: #8e24aa;">■</span> Hemweg	2
<span style="color: #8e24aa;">■</span> Diemen	1
<span style="color: #8e24aa;">■</span> Symbizon	1
<span style="color: #8e24aa;">■</span> Decentral Solar installations	8
<b>Installed capacity (MW)</b>	<b>2,089</b>

















<sup>1</sup> Capacity in operation: total capacity of the wind farms that Vattenfall has an ownership or is responsible for the operation. Minority shares included as 100%

<sup>2</sup> Asset divested but in operation by Vattenfall under Asset Management Agreement (AMA)



# Main projects BA Wind in our 5 core countries

	Offshore
	Onshore
	Solar
	Batteries

Country	Name	Capacity (MW)	Support scheme	Awarded	Duration of support	Ownership (%)	Commissioning	Current status
	SE Bruzaholm	139				100	2025/2026	Under construction, cPPA* signed
	SE Velinga	60				100	2026	Under construction, cPPA* signed
	SE Battery@Bruzaholm	38				100	2025/2026	Under construction
	SE Battery@Toledo	20				100	2024	Under construction
	DE Tützpatz	76				100	2024	Develop2Sell project; under construction, cPPA* signed
	DE Silberstedt	23				100	2025	Develop2Sell project; under construction, cPPA* signed
	DE Neubrandenburg	84				100	2026	Develop2Sell project; under construction, cPPA* signed
	DE Nauen	46				100	2025	Develop2Sell project; under construction, cPPA* signed
<b>In construction</b>		<b>486</b>						
	NL Zeevonk (Ijmuiden Ver Beta)	2,000				50	2030	Bid awarded in June 2024, partnering with CIP
	UK Muir Mhor (Scotwind)	750	CfD			50	2030	Under development with consenting and permitting progressing to ensure participation in the CfD bid, JV with Fred Olsen
	DE Nordlicht I	980	-		-	51	2028	FID planned for 2025, partnering with BASF
	DE Nordlicht II	630	-		-	51	2028	FID planned for 2025, partnering with BASF
	DE Wolfsberg	17	EEG			100	2026	Develop2Sell project. FID planned for 2024.
	GB Clashindarroch II	77	CfD			100	2028	Develop2Sell project. FID planned for 2025.
	SE Stormyrberget	250				55	2028	FID planned for 2025
	DE Battery @ Tützpatz	50	-		-	100	2025	FID planned for 2024
<b>In development (in mature stage)</b>		<b>4,754</b>						

\* cPPA stands for Commercial Power Purchase Agreement. For these projects, Vattenfall has signed a contract with a partner for the sale of contractually agreed amount of MW per year, for a fixed period of time (usually ranging between 10-15 years)