

# Vattenfall FY and Q4 Results 2023

6 February 2024



VATTENFALL

# Vattenfall FY Results 2023

## In brief

- Lower electricity prices both in the Nordics and on the Continent as well as reduced price area differences compared to 2022
  - Divestment of Berlin heat business to the State of Berlin
  - Divestment of Norfolk Offshore Wind Zone
  - Memorandum of understanding between Vattenfall and BASF regarding a partnership for the German offshore wind projects Nordlicht I and II
  - Inauguration of the Hollandse Kust Zuid offshore wind farm in the Netherlands and the onshore wind farm South Kyle in the UK
  - Vattenfall's goal of net-zero emissions by 2040 has been approved by the Science Based Targets initiative
  - Swedish Energy Market Inspectorate decided on a model and calculation rate for electricity grid operators' revenue frameworks for the period 2024–2027
- 
- Underlying EBIT decreased by SEK 15.1 bn to SEK 20.0 bn:
    - Lower contribution from the Power Generation segment mainly owing to a negative effect from continental hedges, lower production as well as lower spot prices
    - Lower earnings from the Wind business due to lower electricity prices
    - Strong contribution from the Heat business due to higher heat prices which were adjusted after the increase in fuel prices last year
- 
- Profit for the period increased to SEK 10.4 bn from SEK 0.0 bn. Last year's result was heavily negatively impacted by temporary effects from the realisation and valuation of electricity and fuel contracts. A higher return from the Swedish Nuclear Waste fund had an additional positive effect
  - The Board of Directors proposes a dividend of SEK 4.0 bn



# Vattenfall FY Results 2023

## Overview

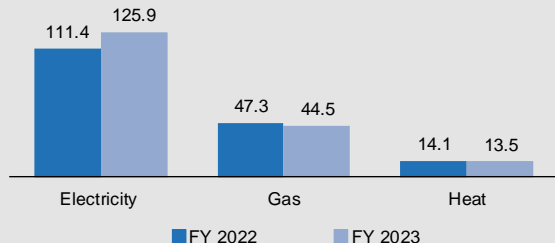
### Result development

SEK BN	FY 2023	FY 2022	Δ
Net Sales	290.2	239.6	21%
EBITDA	39.7	30.5	30%
Underlying operating profit (EBIT)	20.0	35.1	-43%
EBIT	17.0	12.6	34%
Profit for the period	10.4	0.0	n.a

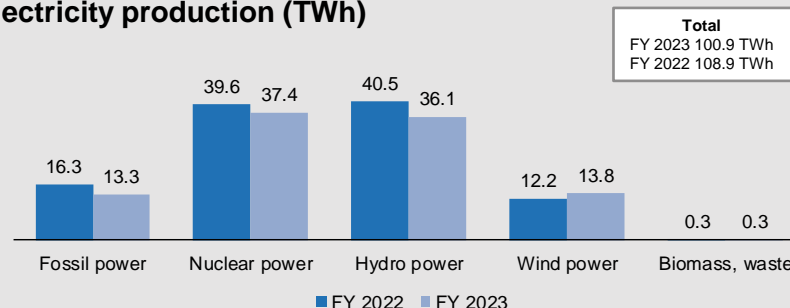
### Financial targets

	FY 2023	FY 2022
Return on capital employed (≥8%)	5.3%	4.2%
FFO/adjusted net debt (22-27%)	21.5%	55.0%







### Customer sales (TWh)



### Electricity production (TWh)



# Strategic targets 2025

Strategic focus area	Strategic targets to 2025	Actual 2023	Actual 2022	Progress	Comments
Driving decarbonisation with our customers & partners	Net Promoter Score <sup>1</sup> (Absolute): <b>+18</b>	+11	+16		Decrease in absolute NPS due to longer response times in customer services during the beginning of 2023
Securing a fossil-free energy supply	CO <sub>2</sub> Emissions Intensity <sup>3</sup> : <b>≤86 gCO<sub>2</sub>e/kWh</b>	71	78		Improvement due to lower fossil-based generation
Empowering our people	Lost Time Injury Frequency (LTIF): <b>≤1.0</b>	1.5	1.1		Below target levels. Further actions required to enhance safety
	Employee Engagement Index: <b>≥75%</b>	80	80		Outcome above target level after continued improved performance with more engaged employees
Delivering high-performing operations	FFO/Adjusted Net Debt: <b>22-27%</b>	21.5%	55.0%		Below target interval as a result of lower underlying EBITDA, and the adjusted net debt mainly increased due to increased investments.
	ROCE: <b>≥8%</b>	5.3%	4.2%		Outcome below target due to lower electricity prices and also lower generation volumes from hydro power and lower availability from nuclear power. The negative price effects from the Continental hedging also had a negative impact

<sup>1</sup> NPS absolute target is calculated with a weighting of 80% from Customers & Solutions and 20% from Heat resembling size of customer basis

<sup>2</sup> Targeting 86 gCO<sub>2</sub>/kWh by 2025 puts us on a "1.5°C" trajectory by 2030 according to Science Based Target levels

# Customers & Solutions

Increased electricity sales as more customers choose Vattenfall

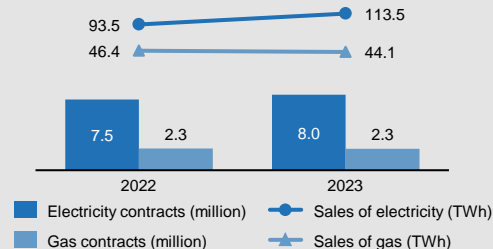
## Highlights

SEK million	FY 2023	FY 2022
Net Sales	216,339	183,151
Underlying operating profit	7,566	7,413

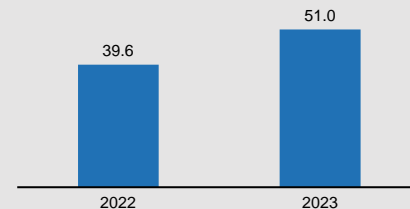
- Net sales increased by 18% compared to 2022. Underlying operating profit increased, mainly owing to a growing customer base in Germany as well as higher sales to business customers in the Netherlands and retail customers in France
- The customer base increased by 5% to 11.4 million contracts compared to year-end 2022
- Continued expansion of charging networks for electric vehicles with agreements signed in both Germany and Sweden
- Partnership with Kia in the Netherlands to provide Kia customers with sustainable energy solutions and alleviate grid congestion
- Acquisition of Meiners Elektrotechnik in Germany, further expanding Vattenfall's heat pump installation capacity in the region

## Key data

Retail sales development



Charging points for electric vehicles (thousand)





# Power Generation

Earnings negatively impacted by negative price effects from Continental hedges, lower electricity prices and lower volumes

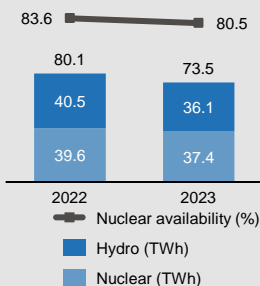
## Highlights

SEK million	FY 2023	FY 2022
Net Sales	207,510	205,788 <sup>1</sup>
Underlying operating profit	3,075	14,332

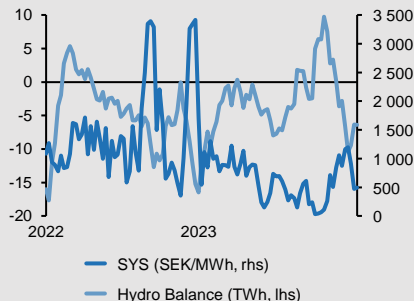
- Net sales increased by 1%. Underlying operating profit decreased significantly, mainly attributed to a negative effect from Continental hedges, lower prices in the Nordics as well as lower production volumes. Vattenfall's Nordic hedges had an offsetting effect and resulted in higher achieved prices in the Nordics. Lower production volumes from hydro power as well as a decrease in nuclear availability mainly due to a delayed restart of Ringhals 4 and an outage at Forsmark 2 had an additional negative impact
- Expanded partnership with Air Liquide for delivery of renewable electricity from Vattenfall's offshore wind farm Hollandse Kust Zuid
- Vattenfall's hydro pump storage-project in Leutenberg is on EU's list of important infrastructure projects
- The Swedish government launches a roadmap for new nuclear power in Sweden

## Key data

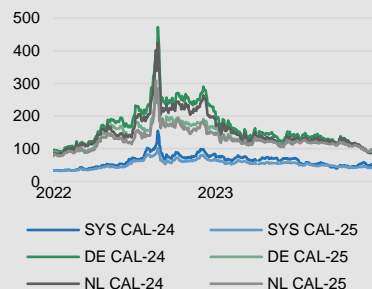
Production and availability



Nordic hydro balance and system price



Electricity futures prices (EUR/MWh)



<sup>1</sup> The value has been adjusted compared with information previously published in Vattenfall's financial reports, see note 1 Accounting policies, risks and uncertainties

# Wind

## Lower earnings following decreased spot prices

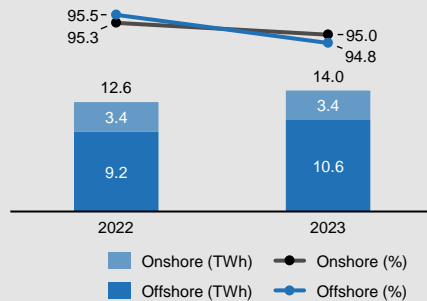
### Highlights

SEK million	FY 2023	FY 2022
Net Sales	25,373	29,109
Underlying operating profit	6,544	16,479

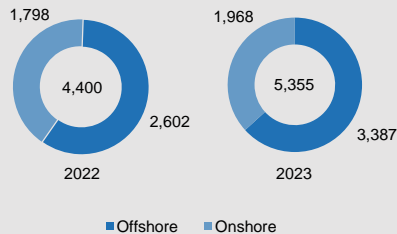
- Net sales decreased by 13% compared to 2022. Underlying operating profit decreased by 60% mainly due to lower electricity prices. Higher personnel costs, maintenance costs and depreciation mostly related to new assets had an additional negative impact.
- Electricity generation increased by 12% as a result of new capacity mainly driven by Hollandse Kust Zuid
- Vattenfall has signed an agreement with RWE to divest the Norfolk Offshore Wind Zone. The purchase price amounts to GBP 1.0 billion
- Vattenfall and BASF signed a memorandum of understanding to partner on German offshore wind farms Nordlicht 1 and 2
- Several investment decisions taken, including project in solar, onshore wind, and a battery system co-located with a wind farm

### Key data

Production<sup>2</sup> and availability

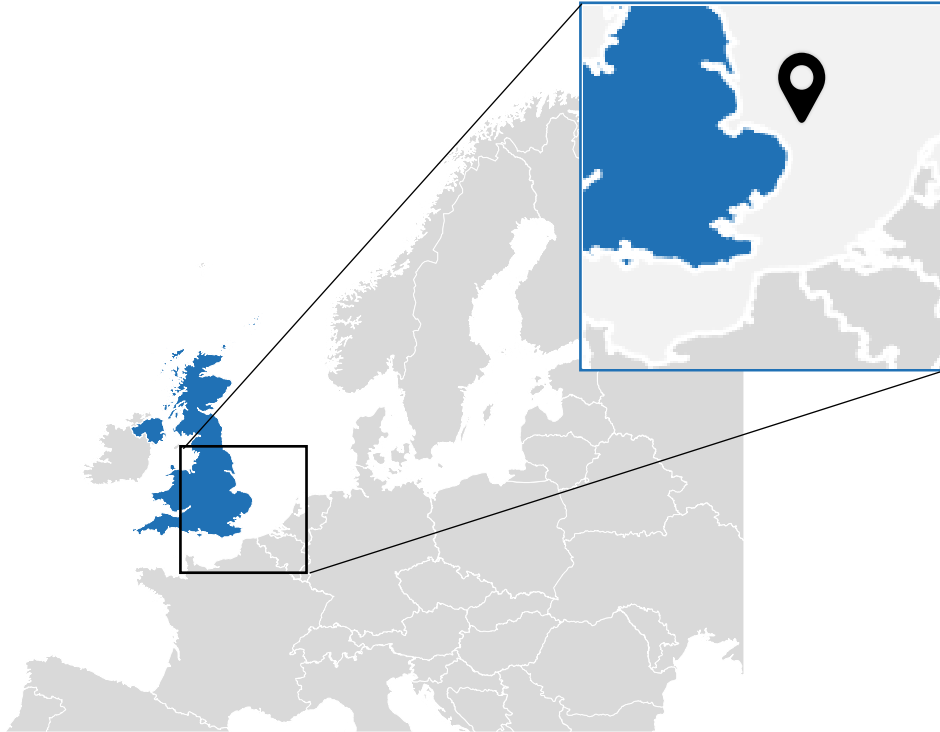


Total installed wind capacity (MW)



<sup>1</sup> Added capacity during the last 12 months includes Hollandse Kust Zuid (760 MW of 1,520 MW), Vesterhav (25,2 MW of 344) and South Kyle (173 MW of 240 MW)

# Divestment of Norfolk Offshore Wind Zone



- Signed agreement with RWE for sale of Norfolk Offshore Wind Zone
- The transaction includes the three offshore wind farms Boreas, Vanguard East and Vanguard West with a combined capacity of 4.2 GW
- The purchase price amounts to GBP 1.0 billion
- Accounting implications in Q4 include reversal of impairments of SEK 3.8 billion and reversal of provisions of SEK 1.3 billion
- Closing of the transaction is expected in Q1 2024

**The deal ensures the continued development of the projects and fossil-free electricity for millions of British homes**



# Heat

## Sale of Berlin heat business to the State of Berlin

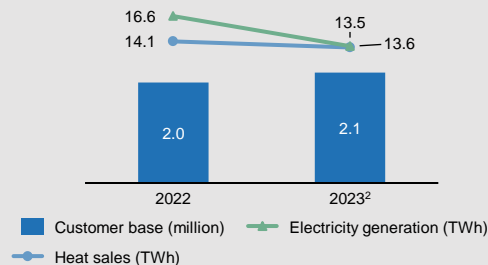
### Highlights

SEK million	FY 2023	FY 2022
Net Sales	44,202	60,505
Underlying operating profit	3,228	-3,578

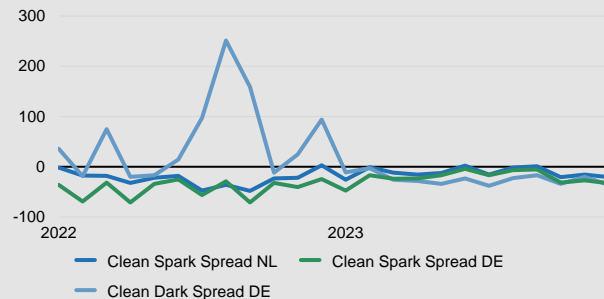
- Net sales decreased by 27% compared with 2022. The underlying operating profit increased mainly as a result of price adjustments for heating in Berlin and the Netherlands, which compensate for the higher fuel costs in 2022. This was somewhat offset by a lower underlying operating profit in Sweden largely driven by higher bio fuel prices
- The number of customers amounted to 2.1 million households which corresponds to an increase of 2.6% compared to the end of 2022
- Vattenfall has decided to sell Heat Berlin to the State of Berlin. The expected purchase price amounts to EUR 1.6 billion based on an agreed enterprise value of EUR 1.9 billion
- Contract signed for heating and cooling supply in Amsterdam for the North area of Elzenhagen Zuid. It is part of a project to develop the area into a green urban neighbourhood and is a joint venture between Vattenfall and the municipality of Amsterdam

### Key data

Sales and production<sup>1</sup>



Spreads<sup>2</sup> (EUR/MWh)



<sup>1</sup> lower electricity production 2023 mainly driven by the sale of the Magnum power plant

<sup>2</sup> CSS NL with 52% efficiency, CSS DE with 50% efficiency, CDS DE with 38% efficiency

# Divestment of heat business in Berlin

Strategic review completed and the heat business in Berlin will be sold to the State of Berlin

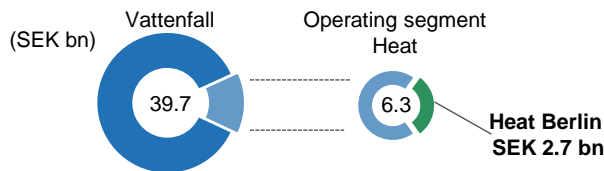
## Key facts

- A strategic review of the heat business in Berlin started in May 2022 and a deal with the State of Berlin was signed in December 2023
- Closing of the transaction is subject to the approval of the Berlin parliament and merger control clearance. It is expected to occur during the second quarter in 2024
- Substantial investments by the new owner will be required in the coming years, in order to generate 40 percent of the district heating from renewable energy sources by 2030
- The purchase price based on enterprise value amounts to EUR 1.9 billion, which is expected to translate into an actual price (equity value) of approximately EUR 1.6 billion
- The heat business in Berlin employs about 1,700 people (FTEs)

## Financial implications in the fourth quarter 2023

- Separate impairment of SEK 2.7 billion for operating segment Heat, which in part is expected to be offset by positive effects once the deal has been closed

## EBITDA in 2023 was 43% of operating segment Heat and 7% of Group



## Scope of transaction

- 100% of Vattenfall Wärme Berlin AG, including subsidiaries, among others the shares in Fernheizwerk Neukölln AG (80.8%) and Vattenfall Energy Solutions GmbH (100%) and Energy Crops GmbH (100%)
- Heating network (>2,000 km, 1.4 million household equivalents)
- 10 large scale combined heat and power plants whereof the largest being Marzahn 924 MWth, Reuter West 878 MWth and Klingenberg 760 MWth
- 105 small scale block-type thermal power plants and various other facilities

## Germany will continue to be a key market for Vattenfall

- 4.7 million electricity customers and 0.6 million gas customers
- 2.8 GW of pumped hydro storage in operation
- 643 MW of installed wind power capacity
- Wholesale and trading operations
- Attractive investment opportunities in new fossil-free generation capacity. For instance Nordlicht 1 & 2 offshore wind projects and acquisition of development company Solizer with a pipeline of 4 GW of solar power projects

# Distribution

Planned increase in investment rate in local and regional networks

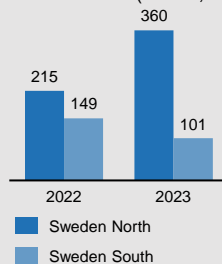
## Highlights

SEK million	FY 2023	FY 2022
Net Sales	11,139	12,497
Underlying operating profit	1,526	2,070

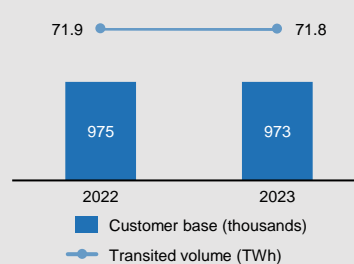
- Net sales decreased by 11% compared with 2022. The underlying operating profit decreased by 26%, due to a temporary reduction of the electricity grid tariff during 1st July – 31st December 2023, as well as higher personnel costs, maintenance costs and depreciation as a result of growth. This was counteracted by extraordinary high costs for the transmission network during 2022.
- The temporary reduction of the electricity network charge ended on 1 January 2024
- Vattenfall is participating in a research project to evaluate how vehicle-to-grid technology can enhance electricity grid stability
- The Swedish Energy Market Inspectorate has decided on the model and WACC for the revenue frames for electricity grid operators for the period of 2024-2027

## Key data

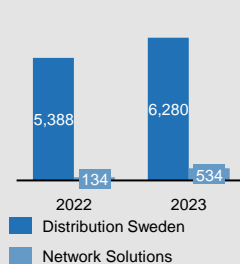
Service level (SAIDI, min)<sup>1</sup>



Customers and volumes



Investments in electricity grids (SEK mn)



<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



# Vattenfall FY Results 2023

## Financial highlights

### Key data

SEK bn	FY 2023	FY 2022
Net Sales	290.2	239.6
EBITDA	39.7	30.5
Underlying operating profit (EBIT)	20.0	35.1
EBIT	17.0	12.6
Profit for the period	10.4	0.0
Funds from Operations (FFO)	30.1	42.2
Cash flow operating activities	-24.6	1.2
Net debt	68.4	3.9
Adjusted net debt	139.5	76.8
Adjusted net debt/EBITDA (times)	3.5	2.5

### Financial targets

ROCE ( $\geq 8\%$ )	5.3	4.2
FFO/adjusted net debt (22-27%)	21.5	55.0

### Key developments

- Net sales increased by SEK 50.5 bn to SEK 290.2 bn due higher prices in the customer business and partly higher volumes in the business segment in France
- Underlying EBIT decreased by SEK 15.1 bn mainly as a result of decreased earnings in the Power Generation segment due to a negative effect from continental hedges, lower prices in the Nordics as well as lower production volumes. Lower contribution from the Wind segment due to lower spot prices. Increased underlying profit in segment Heat due to price adjustments for heating in Berlin and the Netherlands
- Profit for the period increased to SEK 10.4 bn and is mainly attributable to the large temporary negative effects in 2022 from realisation and valuation of electricity and fuel contracts
- ROCE increased to 5.3% due to increased EBIT
- FFO/Adjusted net debt decreased to 21.5% due to decreased funds from operations as a result of lower underlying EBITDA and an increase in the adjusted net debt primarily attributable to increased investments. Adjusted for margin calls, the key ratio was 25.6%

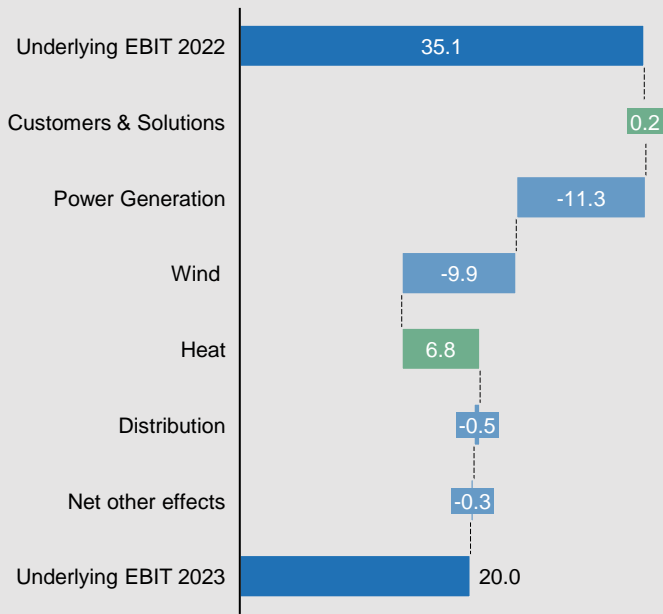


# Development of underlying EBIT FY 2023

Decrease from Power Generation and Wind partly offset by higher earnings in Heat and C&S

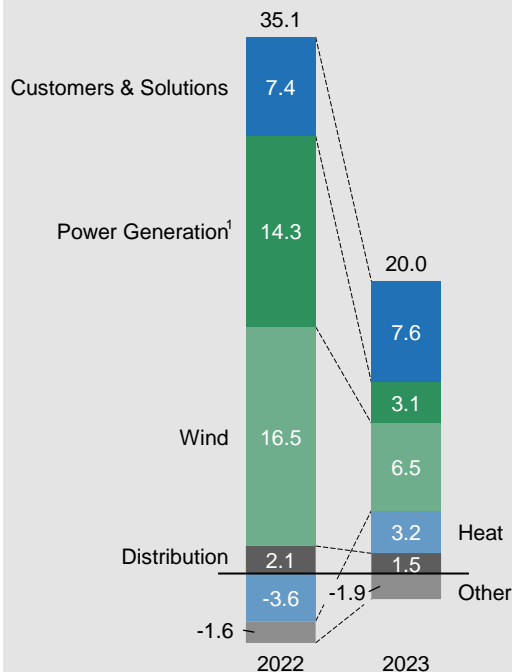
## Change in FY 2023 vs. FY 2022

SEK bn



## Breakdown per operating segment

SEK bn



## Highlights

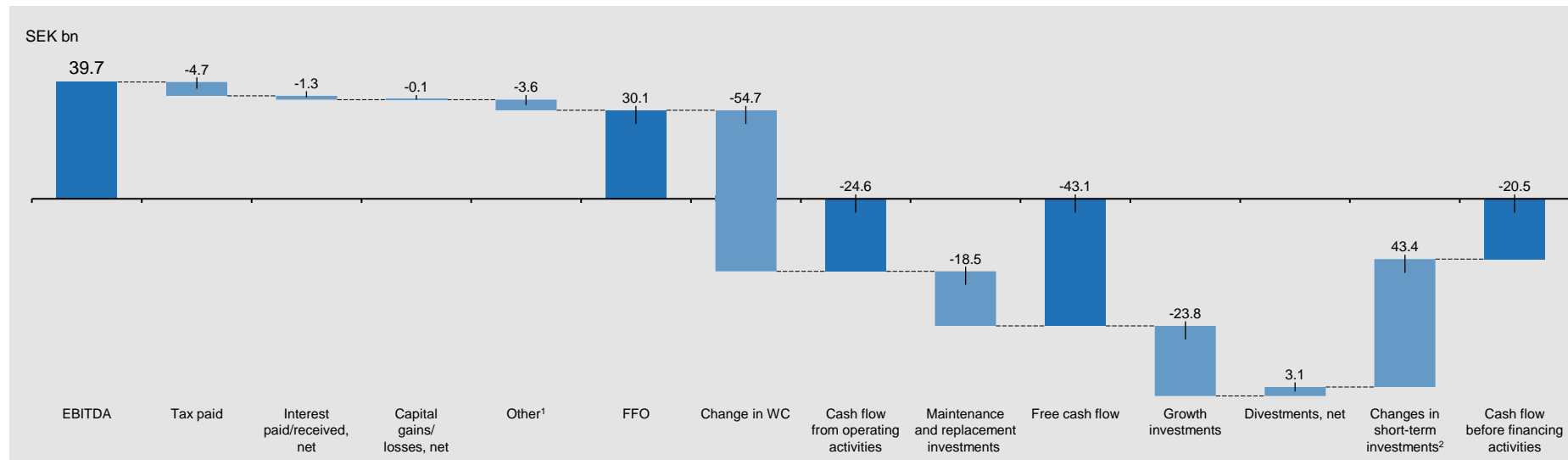
- Power Generation: negative effect from Continental hedges, lower prices in the Nordics as well as lower production volumes
- Wind: lower electricity prices
- Distribution: temporary reduction of the electricity grid tariff during 1st July – 31st December 2023, as well as higher personnel costs, maintenance costs and depreciation as a result of growth
- Heat: higher heat prices mainly due to price adjustments for heating, which compensates for higher fuel costs in 2023
- Customers & Solutions: growing customer base in Germany as well as higher sales to business customers in the Netherlands and retail customers in France

<sup>1</sup> The value has been adjusted compared with information previously published in Vattenfall's financial reports, see note 1 Accounting policies, risks and uncertainties



# Cash flow development FY 2023

Negative working capital development mainly related to changes in margin calls



## Main effects

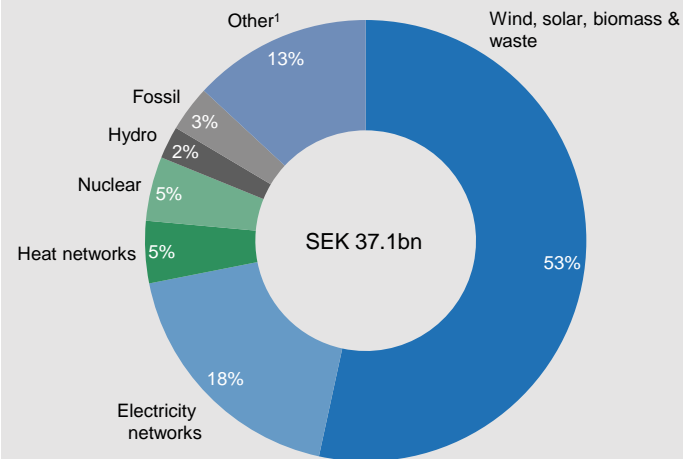
- Change in working capital mainly driven by changes related to net change in margin calls (SEK -74.1 bn). This was partly offset by a reduced working capital in operating segment Power Generation (SEK +6.3bn), Customers & Solutions (SEK +3.6 bn), and the decrease of Inventories (SEK +2.1bn)
- Changes in short-term investments are related to sales of short-term papers in order to offset the negative impact from the net change in margin calls paid

<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, FY 2023



Detailed overview of investments, FY & Q4 2023

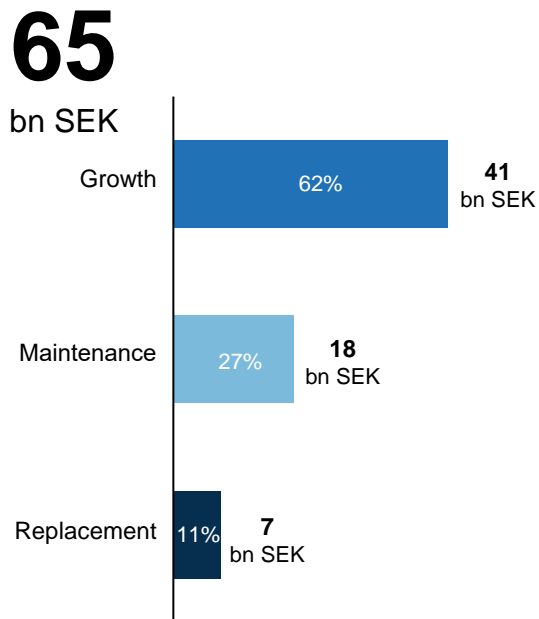
SEK bn	FY 2023	FY 2022		Q4 2023	Q4 2022	
Hydro	0.9	0.8	12%	0.3	0.3	0%
Nuclear	1.7	1.7	4%	0.5	0.5	-7%
Fossil	1.2	1.3	-2%	0.6	0.5	23%
Wind, solar, biomass & waste	19.8	16.4	21%	4.4	5.8	-24%
Electricity networks	6.9	5.5	24%	2.7	2.4	13%
Heat networks	1.7	1.5	15%	0.6	0.6	-12%
Other	4.9	2.7	82%	1.5	1.0	51%
<b>Total</b>	<b>37.1</b>	<b>29.8</b>	<b>25%</b>	<b>10.6</b>	<b>11.2</b>	<b>-5%</b>

¹ Mainly pretains to investments in immaterial assets

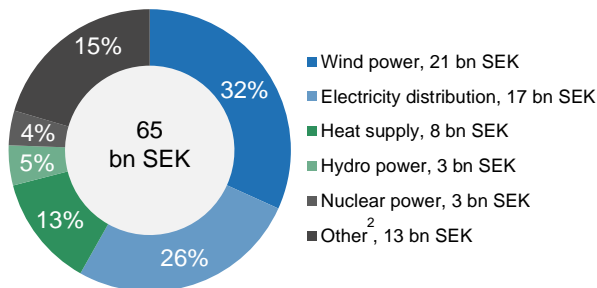
# Investment plan 2024-2025

## Net investments

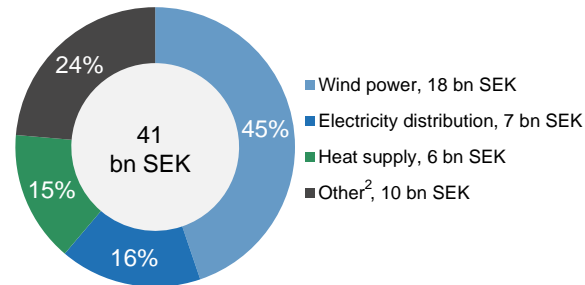
Total<sup>1</sup> capex 2024-2025



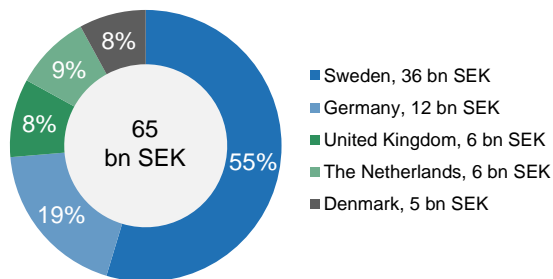
Total<sup>1</sup> capex per technology



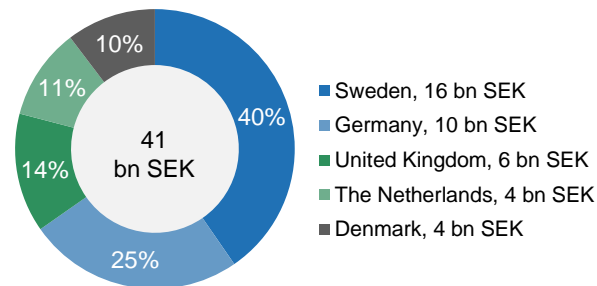
Growth<sup>1</sup> capex per technology



Total<sup>1</sup> capex per country



Growth<sup>1</sup> capex per country

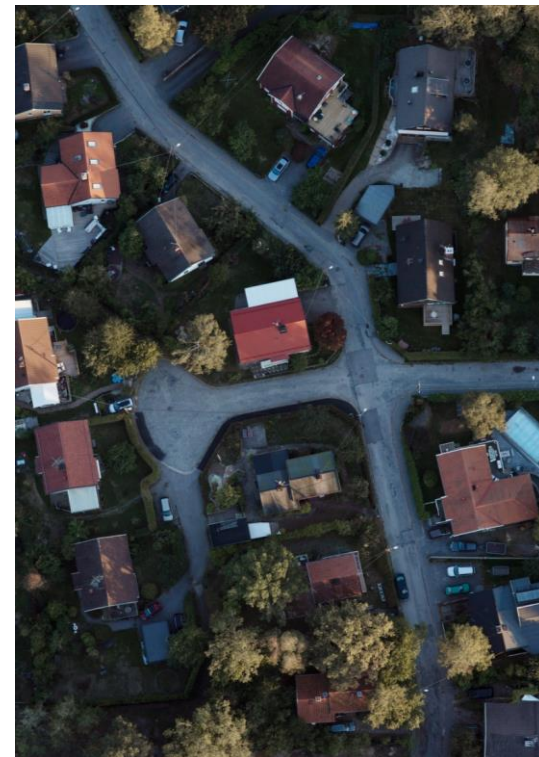


<sup>1</sup> Investment plan excludes investments in Heat Berlin, which is to be divested to the State of Berlin during 2024

<sup>2</sup> Mainly E-mobility, solar and battery projects

# Overview of key figures FY and Q4 2023

Amounts in SEK bn unless indicated otherwise	FY 2023	FY 2022	Q4 2023	Q4 2022
Net sales	290.2	239.6	73.3	78.8
EBITDA	39.7	30.5	9.9	-18.5
EBIT	17.0	12.6	6.1	-24.1
Underlying operating profit (EBIT)	20.0	35.1	4.5	12.5
Profit for the period	10.4	0.0	5.7	-17.0
Electricity generation (TWh)	100.9	108.9	29.0	28.3
Sales of electricity (TWh)	168	165.3	46.0	43.4
- of which, customer sales (TWh)	125.9	111.4	33.9	29.8
Sales of heat (TWh)	13.5	14.1	4.5	4.7
Sales of gas (TWh)	44.5	47.3	14	14.1
Return on capital employed ( $\geq 8\%$ )	5.3	4.2	5.3	4.2
FFO/adjusted net debt (22-27%)	21.5	55.0	21.5	55.0



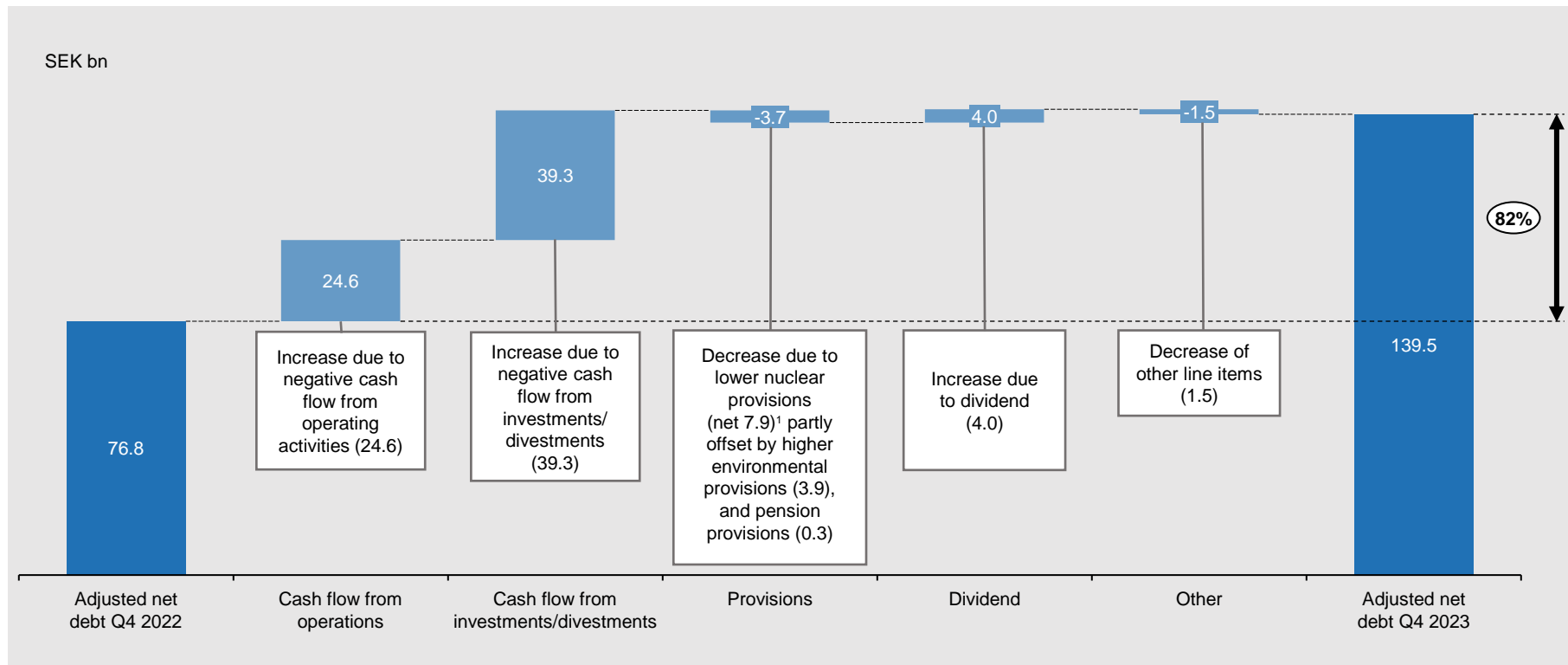
# Appendix



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# Development of adjusted net debt YTD 2023

Adjusted net debt increased mainly due to negative cashflow from operating activities and investments.

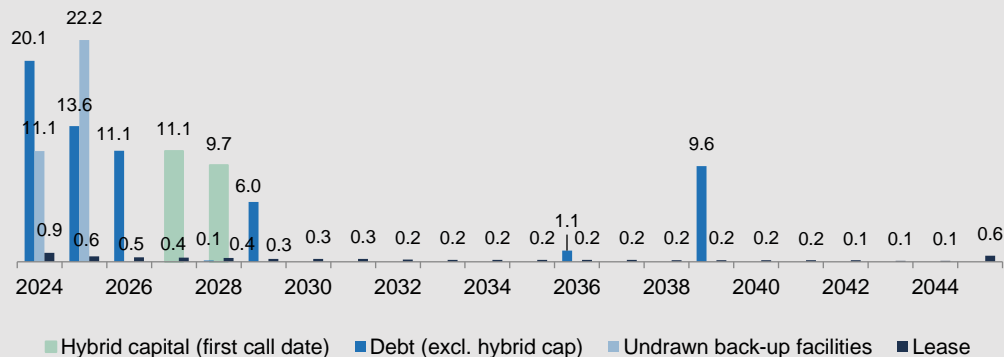


<sup>1</sup> Nuclear provision decreased net by SEK 7.9 bn, whereof in Sweden by 7.5, mainly due to increase in discount rate (3.6) and higher return from nuclear waste fund (3.6), in Germany provisions decreased by 0.4 mainly due to positive translation effects (1.6) and cost decrease (0.9) partly offset by increased due to changed cost assumptions (2.3)



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

SEK bn



	31 Dec. 2023	31 Dec. 2022
Duration (years)	3.5	3.2
Average time to maturity (years)	4.2	5.0
Average interest rate (%)	3.9	3.5
Net debt (SEK bn)	- 68.4	- 3.9
Available group liquidity (SEK bn)	46.8	169.4
Undrawn committed credit facilities (SEK bn)	33.3	70.1

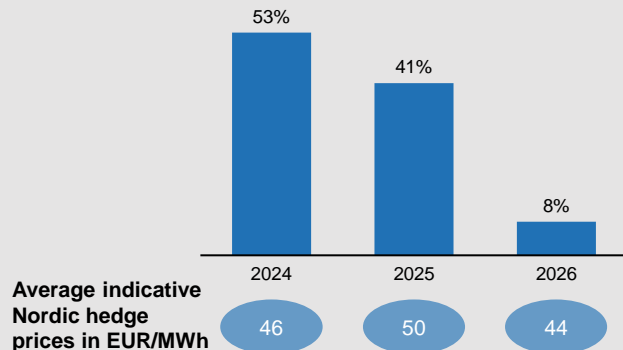
## Cumulative maturities excl. undrawn back-up facilities

	2024- 2026	2027- 2029	From 2030
Debt incl. hybrid capital	46.7	27.9	14.0
% of total	53%	31%	16%

<sup>1</sup> Short term debt (Repo's and Commercial paper: 20.3), 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, EUR/MWh

FY 2023	FY 2022	Q4 2023	Q4 2022
37	27	42	55

Vattenfall's hedging strategy has the objective to stabilize profits by selling parts of the planned production in the forward markets. The main exposures arise from outright power in the Nordics (nuclear and hydro), with a growing exposure in wind both in the Nordics and on the Continent/UK. 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 during the full year of 2023 increased due to price hedges and lower 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

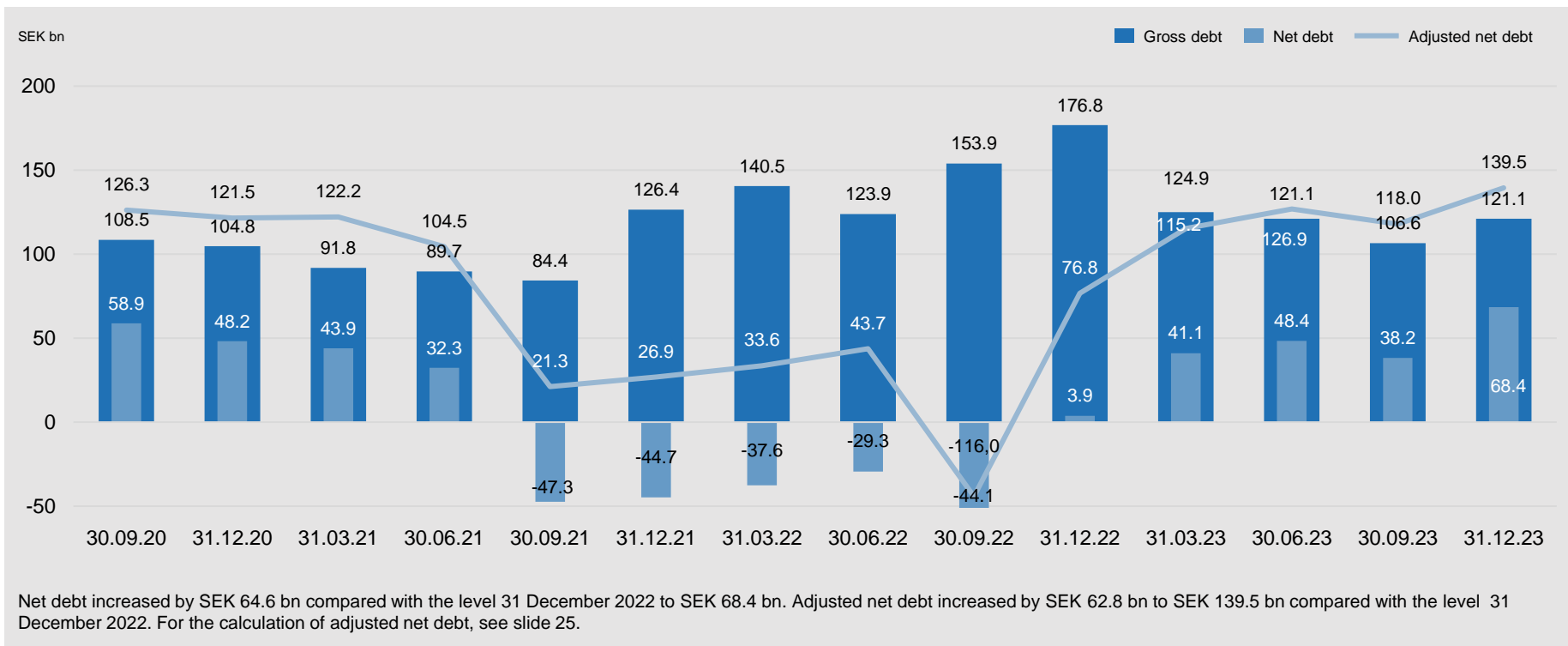
# Liquidity position

Group liquidity	SEK bn	Committed credit facilities	Facility size, EUR bn	SEK bn
Cash and cash equivalents	27.7	Committed credit lines (2024)	1.0	11.1
Short term investments	24.6	RCF (2025)	2.0	22.2
<b>Reported cash, cash equivalents &amp; short term investments</b>	<b>52.3</b>	<b>Total undrawn</b>		<b>33.3</b>
		<b>Debt maturities<sup>2</sup></b>		<b>SEK bn</b>
Unavailable liquidity <sup>1</sup>	-5.4	Within 90 days		0.1
<b>Available liquidity</b>	<b>46.8</b>	Within 180 days		20.1

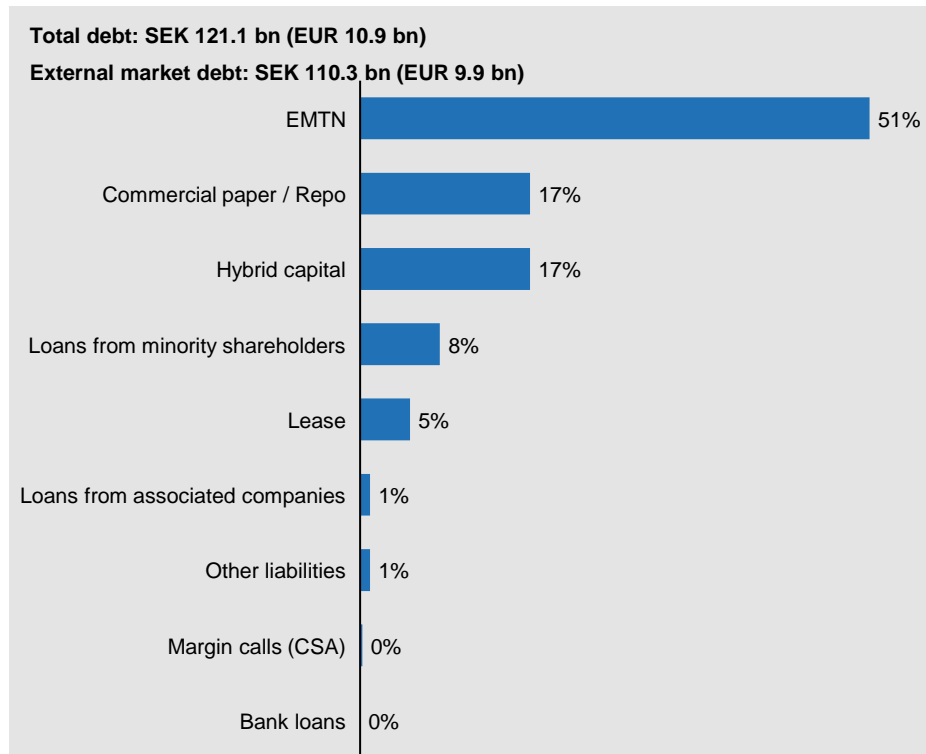
<sup>1</sup> German nuclear "Solidarvereinbarung" 1.1 SEK bn, Margin calls paid (CSA) 3.6 SEK bn, Insurance "Provisions for claims outstanding" 0.8 SEK bn.

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

# Debt development



# Breakdown of gross debt



Debt issuing programmes	Size (EUR bn)	Utilization (EUR bn)
EUR 10bn Euro MTN	10.0	5.5
EUR 10bn Euro CP	10.0	1.9
Total	20.0	7.5

- 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)	31 Dec. 2023	31 Dec. 2022	Adjusted net debt (SEK bn)	31 Dec. 2023	31 Dec. 2022
Hybrid capital	21.0	21.9	Total interest-bearing liabilities	121.1	176.8
Bond issues and liabilities to credit institutions	62.0	63.9	50% of Hybrid capital	-10.5	-11.0
Commercial papers and Repos	20.1	71.0	Present value of pension obligations	28.1	27.8
Liabilities to associated companies	0.7	0.9	Wind & other environmental provisions	15.4	11.5
Liabilities to minority shareholders	10.1	9.7	Provisions for nuclear power (net)	46.0	53.9
Lease liabilities	6.3	6.7	Margin calls received	-0.3	-2.1
Other liabilities	1.0	2.6	Liabilities to minority owners due to consortium agreements	-10.1	-9.7
<b>Total interest-bearing liabilities</b>	<b>121.1</b>	<b>176.8</b>	Adjustment related to assets/liabilities held for sale	-3.4	-1.0
Reported cash, cash equivalents & short-term investments	52.3	172.4	<b>= Adjusted gross debt</b>	<b>186.9</b>	<b>246.2</b>
Loans to minority owners of foreign subsidiaries	0.4	0.5	Reported cash, cash equivalents & short-term investments	52.3	172.4
<b>Net debt</b>	<b>68.4</b>	<b>3.9</b>	Unavailable liquidity	-5.4	-3.0
			<b>= Adjusted cash, cash equivalents &amp; short-term investments</b>	<b>46.8</b>	<b>169.4</b>
			<b>= Adjusted net debt</b>	<b>139.5</b>	<b>76.8</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: 42.9</b>	<b>Total Ringhals: 42.9<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: 39.7</b>	<b>Total Forsmark: 26.2</b>	
<b>Total Sweden</b>	<b>6,974</b>	<b>-</b>		<b>86.4<sup>3</sup></b>	<b>71.1<sup>3</sup></b>	<b>43.5<sup>4</sup></b>
Brunsbüttel	771	1977	66.7	11.7	7.8	
Brokdorf	1,410	1986	20.0	-	3.2	
Krömmel	1,346	1984	50.0	7.8	7.8	
Stade	640	1972	33.3	-	0.4	
<b>Total Germany</b>	<b>4,167</b>	<b>-</b>	<b>-</b>	<b>19.5</b>	<b>19.1</b>	
<b>Total SE &amp; DE</b>	<b>11,141</b>			<b>105.8</b>	<b>90.3</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 3.1 bn (pro rata SEK 1.7 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 52.1 bn.

# Impairments and items affecting comparability

Amounts in SEK million	Full year 2023	Full year 2022	Oct-Dec 2023	Oct-Dec 2022	Major items FY 2023
<b>Items affecting comparability</b>	- 3 014	- 22 430 <sup>1</sup>	1 606	- 36 589 <sup>1</sup>	<ul style="list-style-type: none"> <li>• Impairment losses (SEK -6.5 bn) and a large reversed impairment losses (SEK 4.2 bn) mainly related to offshore wind power projects located off the coast of Norfolk, United Kingdom</li> <li>• Unrealised changes in the fair value of energy derivatives and inventories, SEK 2.3 bn</li> </ul>
- of which, capital gains	240	312	33	108	
- of which, capital losses	- 184	- 122	- 152	- 28	
- of which, impairment losses	- 6 520	- 90	- 2 752	- 89	
- of which, reversed impairment losses	4 161	668 <sup>1</sup>	4 161	- 624 <sup>1</sup>	
- of which, provisions	1 243	- 2 968	3 301	- 940	
- of which, changes in the fair value of energy derivatives	- 1 594	- 17 709	- 2 979	- 30 914	
- of which, changes in the fair value of inventories	- 662	- 2 406	- 317	- 3 988	
- of which, other non-recurring items affecting comparability	302	- 115	311	- 114	

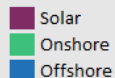
## Impairment losses and reversed impairment losses

- The impairment reported in the second quarter 2023 amounting to SEK 3.8 billion related to assets in offshore wind in the Norfolk Offshore Wind Zone has been reversed in the fourth quarter. The reversal is based upon expected selling price from the agreement with RWE to divest the Norfolk Offshore Wind Zone
- Divestment of heat operations in Berlin decreases the future cash flows in Germany significantly whereby an impairment of related deferred tax assets has been recorded amounting to SEK 6.8 billion. The majority, SEK 4.2 billion, has been recorded directly in equity just as the underlying balance sheet items. The remaining impairment of SEK 2.6 billion has been recorded as a tax cost in the consolidated income statement
- In addition, impairments amounting to SEK 2.7 billion related to business area Heat has been recorded in the fourth quarter

<sup>1</sup> The value has been adjusted compared with information previously published in Vattenfall's financial reports

# Wind & Solar - Installed capacity (MW<sup>1</sup>) Q4 2023

	Solar	Onshore	Offshore	Total	
United Kingdom	-	623	686	1.309	24%
Denmark	-	213	1.195	1.408	26%
The Netherlands	69	487	760	1.316	24%
Sweden	-	638	110	748	14%
Germany	2	7	636	645	12%
<b>Total (MW)</b>	<b>72</b>	<b>1.968</b>	<b>3.387</b>	<b>5.427</b>	<b>100%</b>



United Kingdom – ROC scheme	
Thanet	300,0
Ormonde (51%)	150,0
Aberdeen	96,8
Kentish Flats	90,0
Kentish Flats Extension	49,5
South Kyle	240,0
Pen Y Cymoedd	228,0
Ray	54,4
Edinbane	41,4
Clashindarroch	36,9
Swinford	22,0
<b>Installed capacity (MW)</b>	<b>1.309,0</b>

Sweden – certificate scheme	
Lillgrund	110,4
Blakliden + Fåboderberget	352,8
Stor-Rotliden	77,8
Grönhult	67,2
Högarbjär-Kärsås (50%)	38,4
Höge Våg (50%)	36,9
Hjuleberg (50%)	36,0
Juktan (50%)	28,8
<b>Installed capacity (MW)</b>	<b>748,3</b>

Denmark – FIT scheme	
Kriegers Flak	604,8
Horns Rev 3	406,7
Horns Rev 1 (60%)	158,0
Vesterhav	25,2
Klim (98%)	67,2
Nørrekær Enge 1 (99%)	29,9
Rejsby Hede	23,4
Hagesholm	23,0
Nørre Økse Sø	17,3
Tjæreborg Enge	16,8
Bajlum (89%)	15,0
DræbyFed	9,2
Ejsing (97%)	6,9
Lyngmose	4,6
<b>Installed capacity (MW)</b>	<b>1.407,9</b>

Germany – EEG scheme	
DanTysk (51%)	288,0
Sandbank (51%)	288,0
alpha ventus (26%)	60,0
Westküste (20%)	7,0
Decentral Solar installations	2,2
<b>Installed capacity (MW)</b>	<b>645,2</b>

The Netherlands – MEP/SDE(+)	
Hollandskust Zuid (51%)	760,0
Princess Ariane	183,8
Princess Alexia	122,4
Windplan Blauw	49,5
A16 / Klaverspoor	34,2
Slufterdam	29,0
Moerdijk	27,3
Haringvliet	22,1
Echteld	8,0
Oom Kees (12%)	6,0
Oudendijk	4,8
Haringvliet	37,8
Velsen	2,3
Hemweg	2,4
Diemen	1,3
Symbizon	0,7
Decentral Solar installations	24,8
<b>Installed capacity (MW)</b>	<b>1.316,3</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%

# Main projects BA Wind in our 5 core countries

Country	Name	Capacity (MW)	Support scheme	Awarded	Duration of support	Ownership (%)	Commissioning	Current status
NL	Hollandse Kust Zuid 1-4	1.520	-	X	-	51	2023/2024	Commissioning ongoing, Partnering with BASF
DK	Vesterhav	344	FIT	X	50.000hrs	100	2023/2024	Commissioning ongoing
NL	Windplan Blauw	77	SDE+	X	15 yrs	100	2023/2024	Commissioning ongoing. 9 commissioning certificates signed
SE	Bruzaholm	139				100	2025/2026	Under construction
SE	Velinga	60				100	2026	Under construction
UK	Battery@Ray	55	-		-	100	2023/2024	Partly operating, but no commissioning certificate yet
SE	Battery@Bruzaholm	38				100	2025/2026	Under construction
SE	Battery@Toledo	20	-		-	100	2024	Under construction
<b>In construction</b>		<b>2.253</b>						
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
GE	Nordlicht I (N 7.2)	980	-		-	50	2028	Development rights received in September 2022, FID planned for 2025
GE	Nordlicht II (N 6.6)	630	-		-	50	2028	Development rights received in September 2023, FID planned for 2025
DE	Wolfsberg	17	EEG			100	2026	FID planned for 2024
SE	Vargtrask	84				100	2027	FID planned for 2024
DE	Big Battery @ Brunsbuttel	230	-		-	100	2028	FID planned for 2024
DE	Battery @ Tutzpatz	50	-		-	100	2025	FID planned for 2024
<b>In development (in mature stage)</b>		<b>2.741</b>						

Offshore
Onshore
Solar
Batteries

# **Additional webcast slides**



**VATTENFALL**

# Vattenfall FY Results 2023

## Overview

### Key data

SEK bn unless indicated otherwise	FY 2023	FY 2022	Δ
Net sales	290.2	239.6	21%
EBITDA	39.7	30.5	30%
Underlying operating profit (EBIT)	20.0	35.1	-43%
EBIT	17.0	12.6	34%
Profit for the period	10.4	0.0	n/a
Electricity generation, TWh	100.9	108.9	-7%
Sales of electricity to customers, TWh	125.9	111.4	+13%
Sales of heat, TWh	13.5	14.1	-4%
Sales of gas, TWh	44.5	47.3	-6%
Return on capital employed (≥8%)	5.3	4.2	+1.1 pp.
Return on capital employed based on underlying operating profit	6.3%	11.7%	-5.4 pp.
FFO/adjusted net debt (22-27%)	21.5%	55.0%	-33.5 pp.
FFO/adjusted net debt excl. margin calls	25.6%	46.6%	-21.0 pp.

### Underlying EBIT development 2023 (SEK bn)

