EnBW - a key player in the energy transition



A leading integrated utility in Germany engaged in all aspects of the energy business: power generation, trading, transmission & distribution, energy sales and e-mobility

Operational track record FY 2023

- 12 GW generation capacity
- 27 TWh own generation
- 179,000 km electricity and gas grids
- >1,100 fast-charging stations in Germany alone
- **5.5 m** B2C & B2B customers
- 28,630 employees

Financials FY 2023

- Revenues: €44 bn
- Adj. EBITDA: €6.4 bn
- Retained cash flow: €4.8 bn
- Gross investments: €4.9 bn
- Net debt: €11.7 bn
- Ratings: A- (S&P) / Baa1 (Moody's)

ESG performance

- ESG ratings: A (MSCI), A- (CDP)
- 87% EU taxononomy-aligned capex
- €5.5 bn green bonds outstanding
- ~50% of all bonds are green
- Climate protection targets certified by SBTi, 2028 coal exit, 2035 climate-neutrality

EnBW's segments focusing on energy infrastructure



Sustainable Generation Infrastructure

 Power generation, district heating, trading, gas storage



System Critical Infrastructure

 Transmission & distribution grids for electricity and gas



Smart Infrastructure for Customers

Retail, e-mobility, home storage

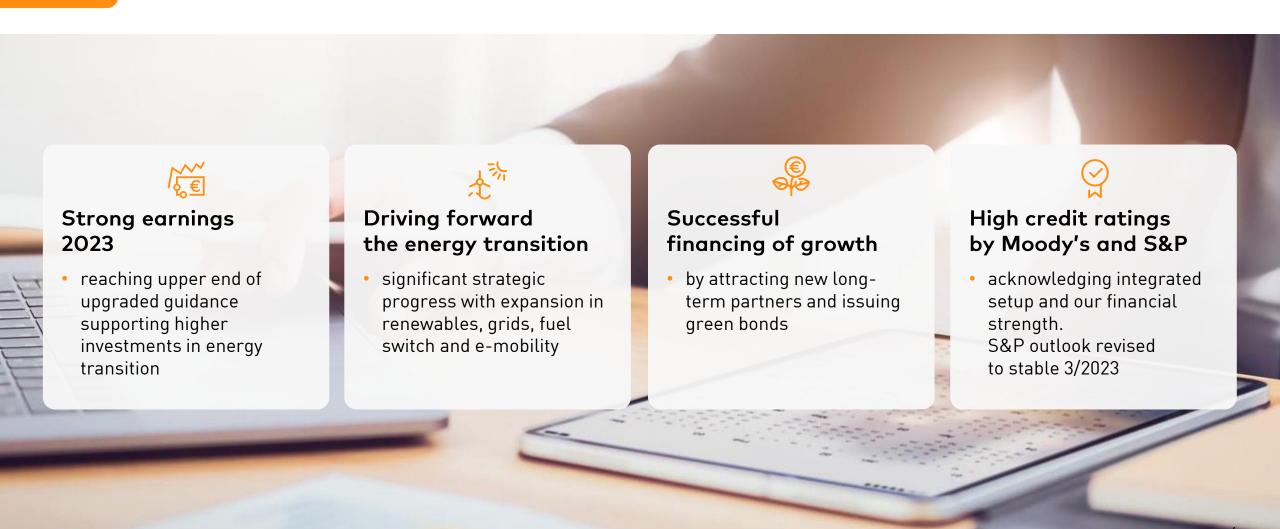
Well-positioned with its integrated business model



(O)	Integrated portfolio approach	 The only German utility covering the entire value chain Stabilizing the energy system, providing security of supply and driving the German energy transition 		
H	High share of low-risk business	 Regulated grids and contracted or guaranteed renewables earnings are anchor of stability Low-risk earnings share 2024-30: >70% 		
	Prudent hedging strategy	 Natural hedge of own generation and sales activities de-risks unfavorable price movements Earnings locked-in by hedging for up to 3 years and growing long-term (10y+) PPA footprint 		
	Strong ESG focus	 Ambitious SBTi emission reduction targets lead the way to climate neutrality in 2035 Clear decarbonization roadmap 		
<u>~~~</u>	Strong financial performance	 Strong FY23 earnings performance, robust FY24 guidance with adj. EBITDA target range of €4.6 – 5.2 bn Significant growth potential from strong political commitment to accelerate energy transition 		
© O O O	Stable government-related shareholder structure	 German state of Baden-Württemberg and OEW (an association of counties) > 93% of share capital The shareholder structure has remained virtually unchanged and thus very stable since 2011 		

Highlights 2023





Sustainably strong earnings performance

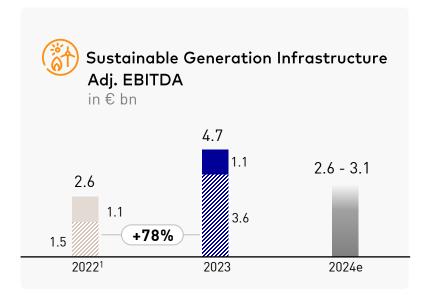


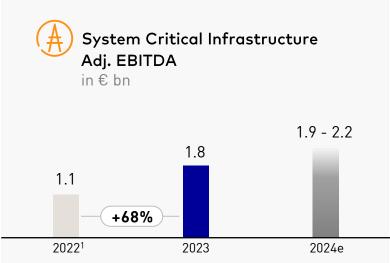


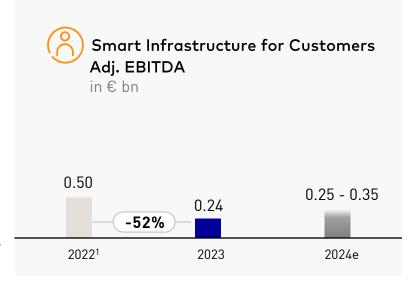
Robust delivery despite:

uncertainty in commodity markets

- power price volatility
- decline in European power prices



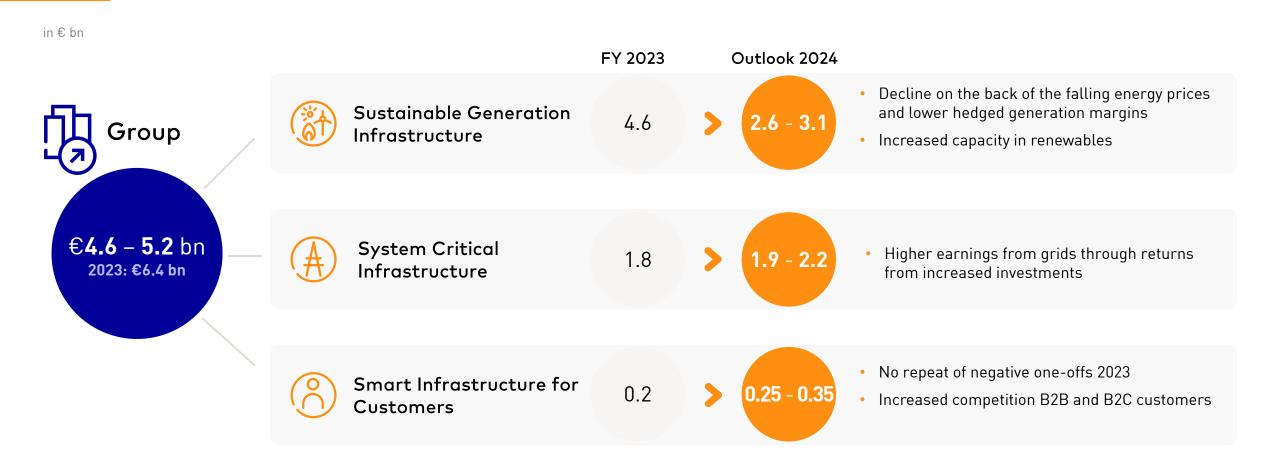




¹ The figures for the previous year have been restated.

Outlook 2024 reflects earnings in a normalized environment

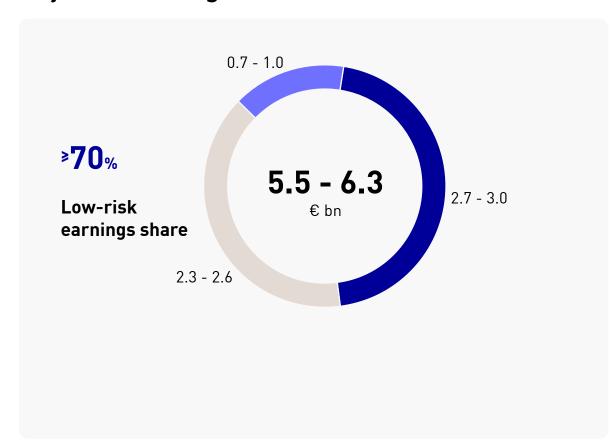




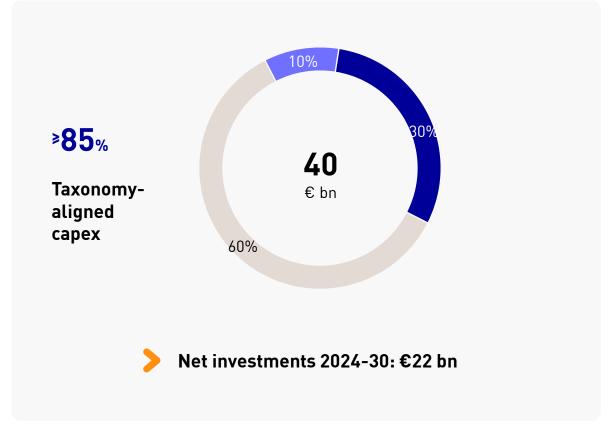
Outlook 2030: Integrated setup with profitable growth while building green future



Adj. EBITDA target 2030



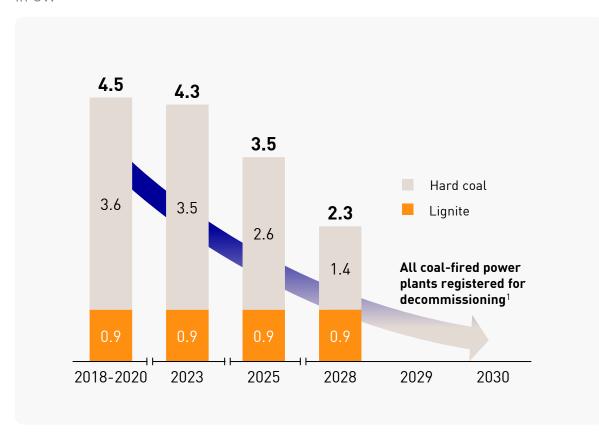
Gross investments 2024-30



Our continued progress in ESG



Phase out coal by 2028 in line with our SBTi targets in GW



Well on track with our climate neutrality roadmap



¹ Provided the energy transition progress allows a coal exit by 2028. ² Compared to the base year 2018.

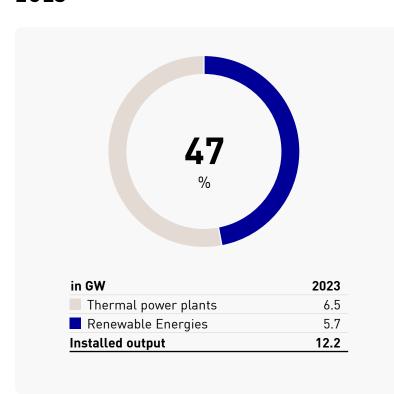


Segment overview

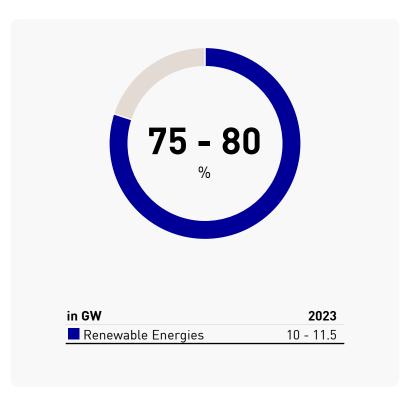


Sustainable Generation Infrastructure

Share of generation capacity accounted for by renewables 2023



Share of generation capacity accounted for by renewables target 2030

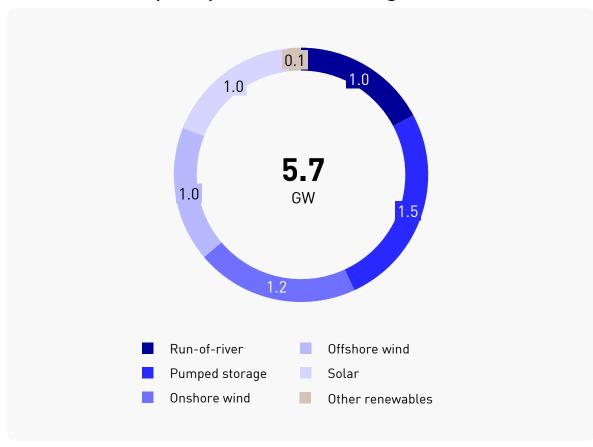


Energy trading

- EnBW follows a risk mitigating hedging strategy focused on reducing the earnings impact from price fluctuations
- Forward hedging up to 3 years in advance of our expected electricity generation, whilst also hedging the prices for necessary fuels and emission allowances
- Sales contracts closed on back-to-back basis
- 2024: already almost fully hedged,
 2025: 60 90%, 2026: 20 50%

Sustainable Generation Infrastructure Renewable energies

Generation capacity renewable energies 2023



• **Adj. EBITDA**: €1.1 bn

Share of total adj. EBITDA: 17%

• **Generation capacity**: 5.7 GW, share of 47%

• Electricity generated: 13 TWh, share of 48%

Investments: €0.6 bn

 Under construction: 137 MW onshore and 320 MW solar in Germany, 960 MW offshore in Germany

• **Employees**: 1,309

As of 31 December 2023.



EnBW

Our lighthouse projects - offshore wind



He Dreiht





Location	Germany, German Bight (North Sea)	
Foundation	Fixed-bottom monopiles	
Type of turbine	64 x Vestas V236 15 MW	
Total grid capacity	900 MW grid connection (960 MW installed)	
Shareholders	EnBW 50.1%; consortium of Allianz Capital Partners, AIP and Norges Bank Investment Management 49.9%	
Commissioning	2025	
Remuneration	Without EEG funding ~50% capacity secured via PPAs	



Mona and Morgan



Location	UK, 30 km from the coast of Britain, 22 km from Isle of Man	
Potential	Potential of 3 GW leases – powering ~ 3.4 million UK homes	
Area	Morgan: ~300 km² Mona: ~500 km²	
Water depth	35 m	
Shareholders	50% EnBW, 50% bp	
Commissioning	Depending on grid connection, aiming at 2029/30	
Remuneration	CfD, PPA and/or merchant offtake in 55 years operation time	



Morven

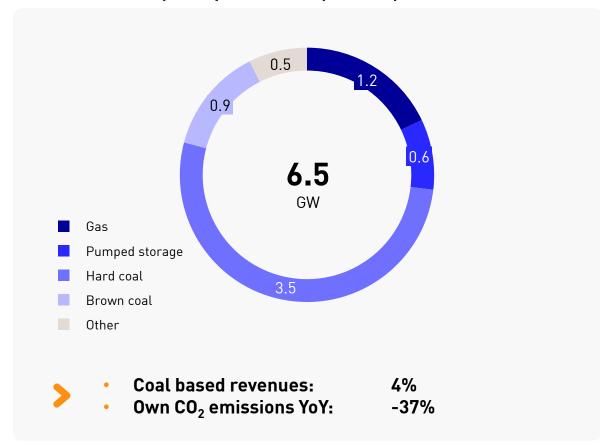


Location	UK, ~60 km off the coast from Aberdeen	
Generation capacity in GW	~2.9	
Area	~860 km²	
Water depth	65 - 75 m	
Shareholders	50% EnBW, 50% bp	
Commissioning	Depending on grid connection, aiming at 2035	
Remuneration	CfD, PPA and/or merchant offtake in 55 years operation time	

CfD: Contract for Difference. 12



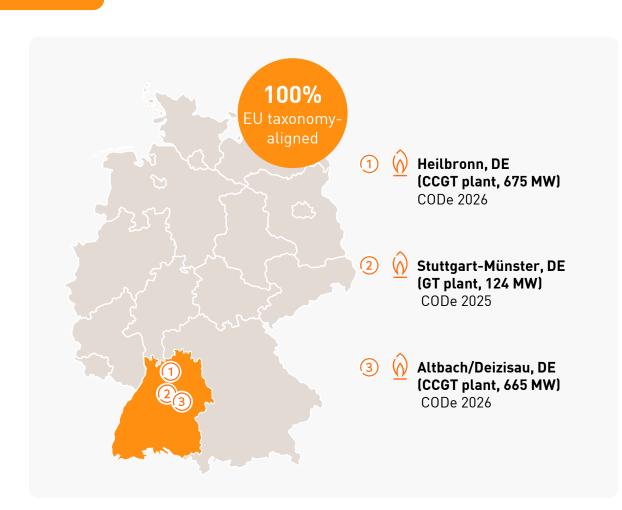
Generation capacity thermal power plants 2023



- Adj. EBITDA (including trading): €3.6 bn Share of total adj. EBITDA (including trading): 56%
- **Generation capacity**: 6.5 GW, share of 53%
- Electricity generated: 14 TWh, share of 52%
- Investments: €1.2 bn
- Under construction: 3 H₂-ready dispatchable CCGTs, 1.5 GW in total (CODe 2025/26)
- Employees: 6,254



Our lighthouse projects – fuel switch



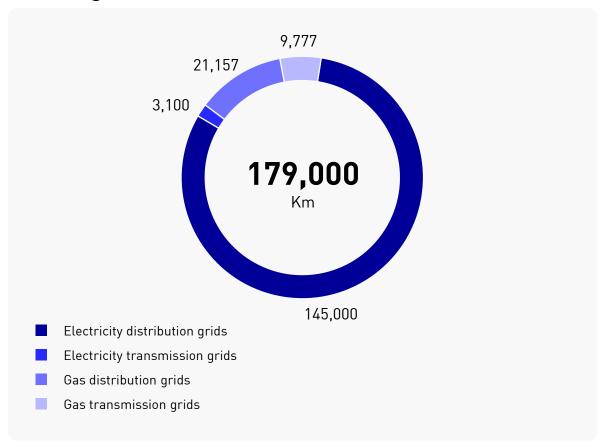
3 major fuel switch projects from coal to natural gas to climate neutral gases reduce CO₂ from dispatchable generation significantly

- FID March 2022
- All 3 projects under construction
- Cuts carbon emissions immediately by 55%
- Dispatchable power CCGT plants pave the way to exit coal
- Driven by heat energy transition, priority on locations with integrated district heat provision
- Keeps locations economically viable and contributes to security of supply
- Operation with climate-neutral gases from mid-2030s

System Critical Infrastructure Electricity and gas grids



Grid lengths 2023



 Adj. EBITDA: €1.8 bn Share of total adj. EBITDA: 28%

Transmission volumes: electricity 55.8 TWh, gas 29.1 TWh

• Investments: €2.7 bn

Sale of 49.9% minority stake in TransnetBW to long-term partners

 Large-scale TSO projects under construction: Start of SuedLink converter in Leingarten; start for the southernmost section of ULTRANET project (both in Germany)

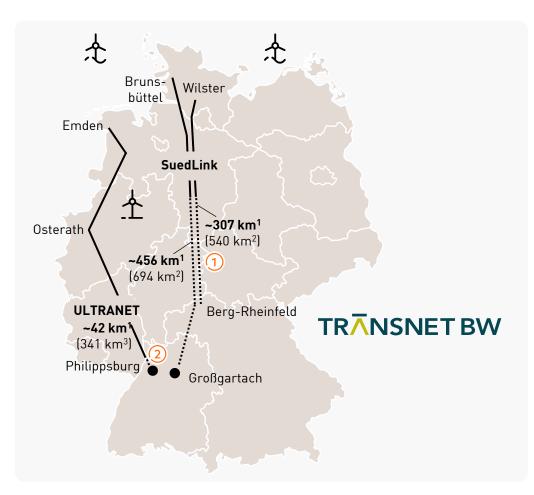
• **Employees**: 11,635

As of 31 December 2023. 15





Our lighthouse projects – electricity transmission grids



Expansion of electricity transmission grids to ensure security of supply

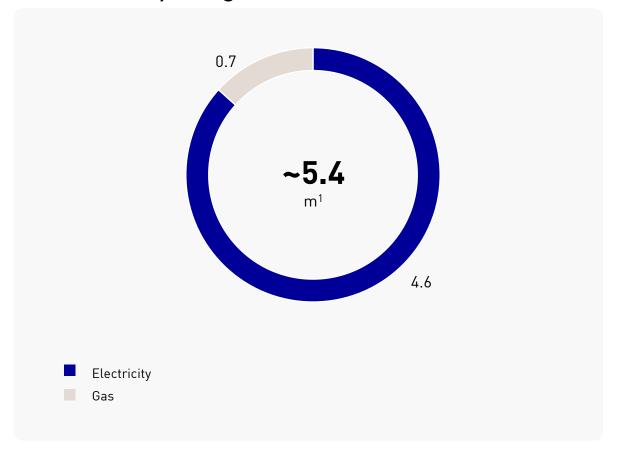
TransnetBW contribution: Converter, power lines ULTRANET 2 GW corridor Investment volume: 1.6 bn	С	DC expansion	Grid section	Scheduled completion
 Investment volume: >€5 bn ~763 km¹ TransnetBW contribution: Converter, power lines ULTRANET 2 GW corridor Investment volume: 1.6 bn ~42 km² 	1 <u>s</u>	uedLink		
 TransnetBW contribution: Converter, power lines ULTRANET 2 GW corridor Investment volume: 1.6 bn ~42 km² 		4 GW corridor		
 ULTRANET 2 GW corridor Investment volume: 1.6 bn ~42 km² 		 Investment volume: >€5 bn 	~763 km ¹	2028
 2 GW corridor Investment volume: 1.6 bn ~42 km² 		TransnetBW contribution: Converter, power lines		
• Investment volume: 1.6 bn ~42 km²	② <u>u</u>	JLTRANET		
\sim 42 km 2		• 2 GW corridor		
		• Investment volume: 1.6 bn	~42 km²	2026
		 EnBW/TransnetBW contribution: Converter, 		
power lines in Baden-Württemberg		power lines in Baden-Württemberg		

Smart Infrastructure for Customers



Sustainable engagement for our customers

B2C electricity and gas customers



Adj. EBITDA: €0.3 bn
 Share of total adj. EBITDA: 4%

• B2B and B2C customers²: 5.5 m

 Leading charge point operator (CPO) and e-mobility provider (EMP) in Germany

EBITDA break even expectet 2024

CPO: Biggest fast charging network in Germany with >4,200 fast charging points
Aim: around 30,000 fast charging points in 2030 with annual invest of up to €0.2 bn

EMP: Access to >600,000 charging points in 17 European countries EnBW mobility+ app downloaded >2.4 m times

Investments: €0.4 bn, mainly in e-mobility

• **Employees**: 5,711



Funding strategy and credit strength

Diversified funding strategy



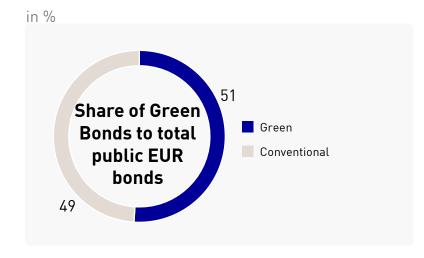
\m\ \r\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Funding volumes	€2.5 - 3 bn p.a. on average	Refinancing of maturing liabilitiesFunding of corporate growth
	Tenors	2 - 30 years	 EnBW's assets are typically characterized by long life cycles Decision based on market demand, maturity profile & interest levels
(Green financing	Outstanding volume of €5.5 bn¹	 First Green Bond issued in 2018 Target 2030: at least 85% of all new issues to be sustainable Green Financing Framework use of proceeds 100% EU taxonomy aligned
\	Currencies	EUR, CHF, USD, GBP & JPY outstanding	 Asset base related: main focus EUR but also CHF, USD & GBP Flexible use of opportunities
H	Diversification	in instruments, currencies & markets	 Bonds, promissory notes, USPP Exploring new markets to make use of existing opportunities Public offerings & Private placements

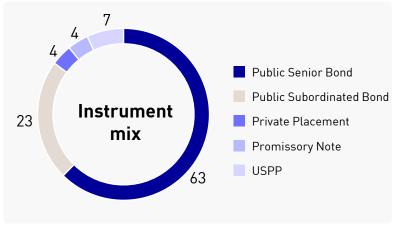
¹ As of January 2024.

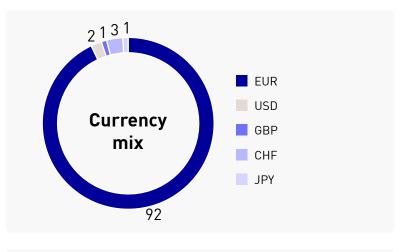
EnBW is prepared to scale up in diversification

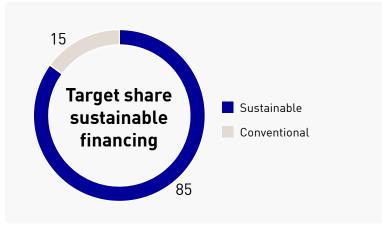


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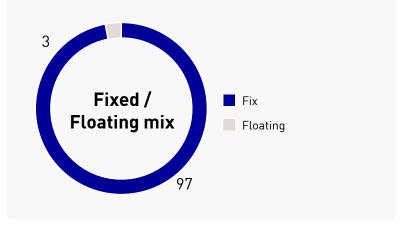












¹ As of 27 March 2024.

EnBW Green Financing Framework – in line with all relevant market standards



100%

Key facts

- Published in 2018 and most recently updated in 2023
- Alignment with ICMA Green Bond Principles & LMA Green Loan Principles
- Alignment with EuGBS
- Second-party opinion by ISS-Corporate



EnBW Green Financing Framework

Use of proceeds

Green activity	Project categories	Contribution to EU taxonomy	EU taxonomy aligned
Renewable energies	Offshore windOnshore windSolar (PV)	4.3 Electricity generation from wind power (NACE: D.35.11)	7 Applications 13 Court
Electricity Networks	 Electricity distribution infrastructure 	4.9 Transmission and Distribution of Electricity (NACE: D.35.12, D.35.13)	7 AMERICAN IN SOMETHINGS OF PROJECT AMERICAN
Energy efficiency	Smart meters	7.5. Installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings (NACE: D.35.13)	9 Milest menure. 13 control
Clean transportation	 E-mobility charging infrastructure 	6.15 Infrastructure enabling low-carbon road transport and public transport (NACE: D.35.12, D.25.13, F.42.21)	9 NUMBER INSTITUTE 11 SECONDICIDE AND DESCRIPTION AND

Allocation of Eligible Green Assets to Green Bonds covers the entire value chain of being a fully integrated utility





Offshore & Onshore wind



Solar



Electricity distribution infrastructure



EV charging infrastructure









Allocated to

- €500 m October 2018 Green Senior
- €1 bn August 2019 Green Subordinated
- €500 m June 2020 Green Subordinated
- €500 m August 2021 Green Subordinated
- €1 bn November 2022 Green Senior
- €1.5 bn November 2023 Green Senior

Allocated to

- €500 m October 2018 Green Senior
- €1 bn August 2019 Green Subordinated
- €500 m June 2020 Green Subordinated
- €500 m August 2021 Green Subordinated
- €1 bn November 2022 Green Senior
- €1.5 bn November 2023 Green Senior

Allocated to

- €1 bn November 2022 Green Senior
- €1.5 bn November 2023 Green Senior

Allocated to

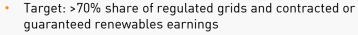
- €500 m October 2018 Green Senior
- €500 m August 2021 Green Subordinated
- €1 bn November 2022 Green Senior
- €1.5 bn November 2023 Green Senior

Key credit strengths





High share of low-risk business



Growing number of green PPAs



Attractive investments in energy transition

- €40 bn 2024-30 gross investments: 60% in grids, 30% in renewables and low-carbon dispatchable generation, 10% e-mobility
- >85% taxonomy-aligned capex



Strict balance sheet management and high credit ratings

- Commitment to solid investment grade ratings
- Debt repayment potential 41% in 2023; target of >15%
- High diversification of funding sources



Robust capital market funding used for sustainable investments

- €2 bn Commercial Paper & €10 bn Debt Issuance Programme
- €5.6 bn bilateral bank lines & €1.5 bn syndicated loan facility
- €5.5 bn green bonds outstanding



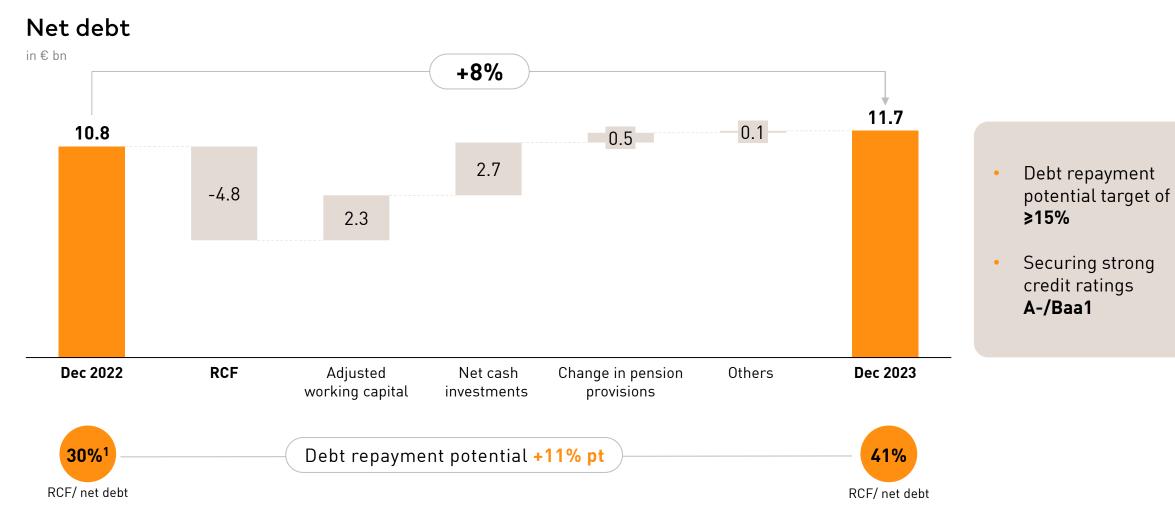
Additional information



- 25 Net debt
- 26 Retained cash flow
- 27 Total investments
- 28 Financial calender
- 29 IR contacts
- 30 Disclaimer

Slight increase in net debt due to investments, working capital and lower interest rate on pension provisions



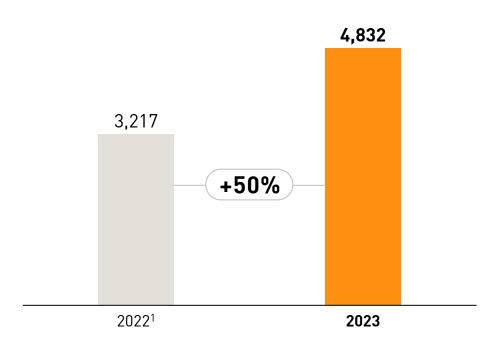


Retained cash flow increased to €~4.8 bn in light of higher FFO driven by strong operating earnings



Retained cash flow

in € m

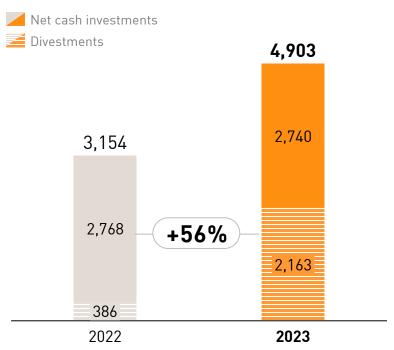


- Higher operating earnings
- Higher income taxes paid and dividends

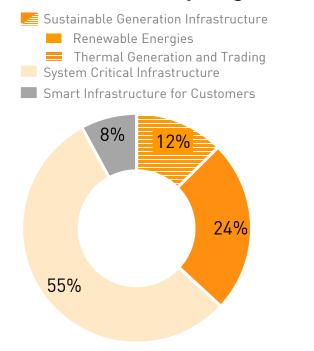
Higher investments focused on energy transition



Total investments 2023 in € m Net cash investments

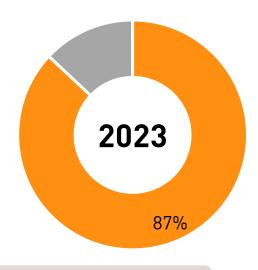


Investments by segments¹



Taxonomy-aligned capex²





80% of total investments in 2023 **in growth projects**

²⁷

Financial calendar and important links



Upcoming events



May 2024, 10:00 a.m. CEST

Annual General Meeting 2024



May 2024, 01:00 p.m. CEST

Publication of figures for 3M 2024

Investor and analyst conference call



August 2024, 01:00 p.m. CEST

Publication of figures for 6M 2024
Investor and analyst conference call



November 2024, 01:00 p.m. CET

Publication of figures for 9M 2024 Investor and analyst conference call

Important links



Integrated Annual Report 2023



Green Bond Impact Report 2023



Investor presentation



Factbook 2023



ESG figures 2023



Website

IR contacts





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