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UniCredit European Credit Conference 2024

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Head of Finance

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

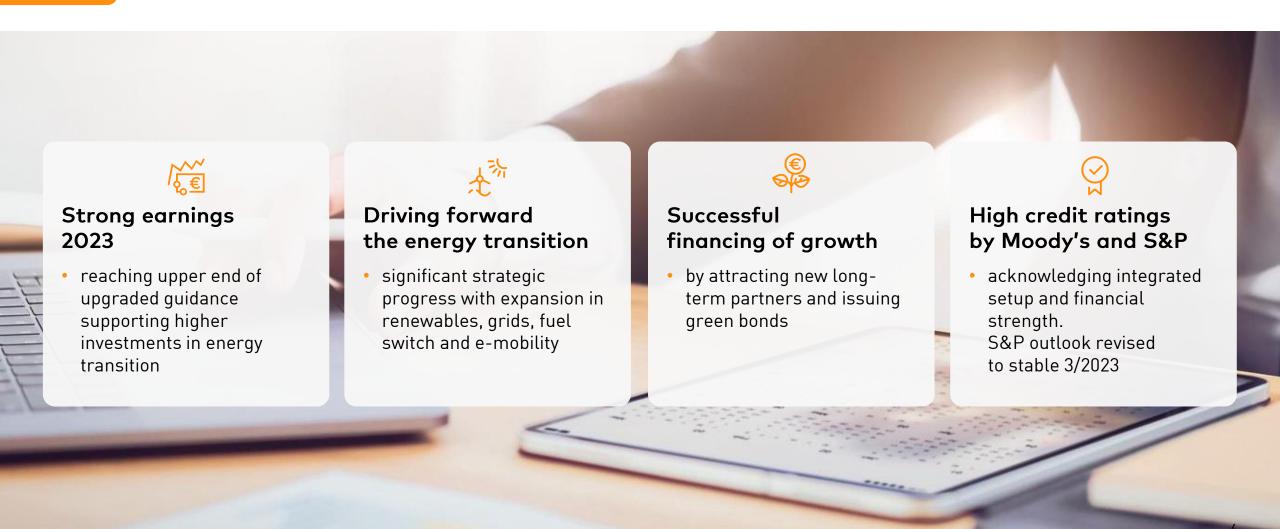
Well-positioned with its integrated business model



(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 mainly contracted/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
€. •€.	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

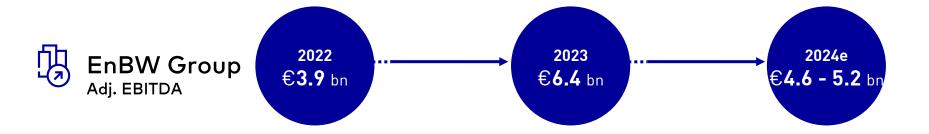
Highlights 2023





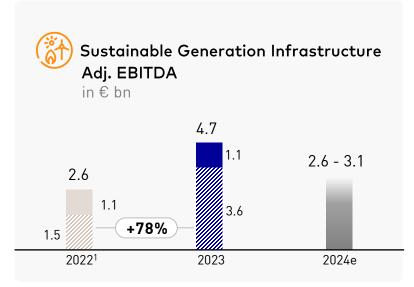
Sustainably strong earnings performance

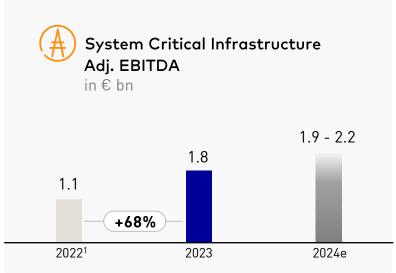


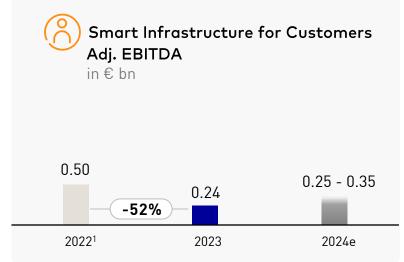


Robust delivery despite:

- uncertainty in commodity markets
- power price volatility
- decline in European power prices







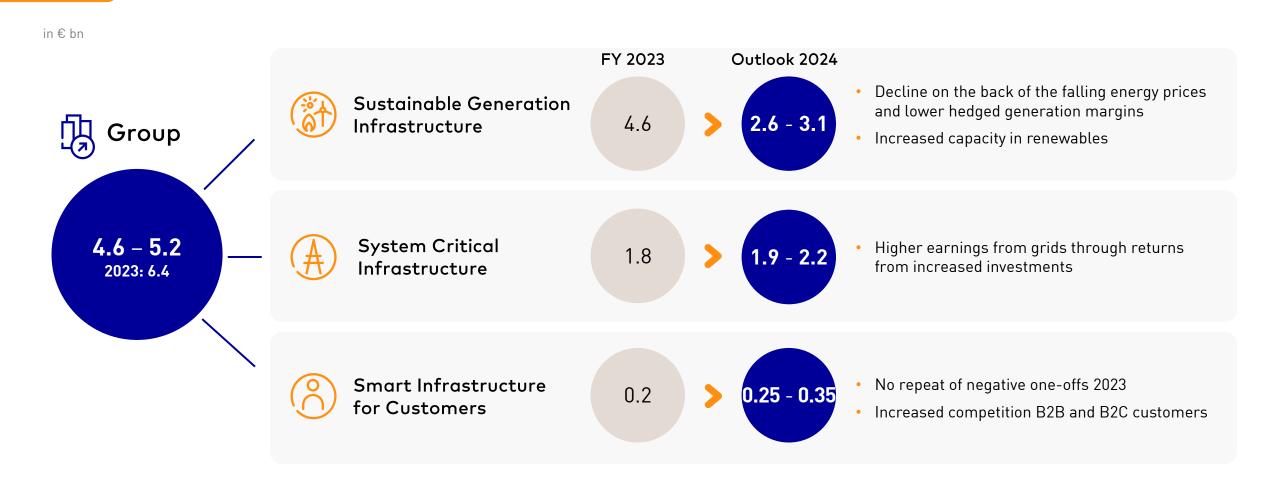
Renewable Energies

Thermal Generation and Trading

¹ The figures for the previous year have been restated.

Confirmed outlook 2024 reflects earnings in a normalized market environment





Highlights 3M 2024: Good start to the year and progress in clean energy transition well underway





3M 2024 financials in line with expectations

- Group adj. EBITDA of €1.3 bn reflects lower power prices
- Confirmed outlook for 2024 backed by resilient operations

ESG & sustainable finance

- CDP score raised to leadership level (A-)
- Issuance of €0.5 bn green subordinated bond in January 2024 to finance green growth

Operational progress geared towards energy transition well on course

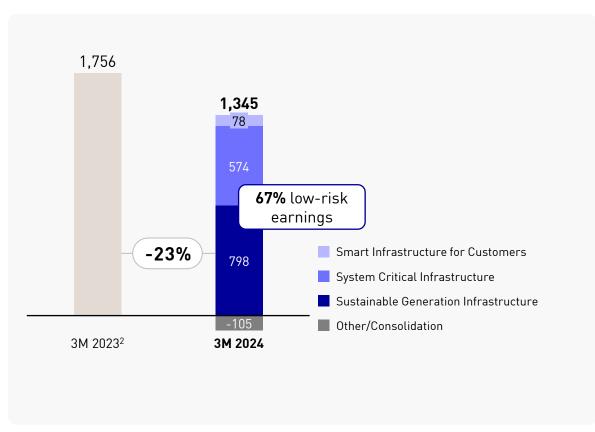
- Start of construction of the largest solar park in the southwest of Germany (80 MW)
- More than half of He Dreiht offshore wind capacity secured via PPAs
- Start of construction for the first $\rm H_2$ transport pipeline in southern Germany (250 km)
- All three fuel switch projects under construction since February 2024

Adjusted EBITDA and adjusted Group net profit down on the back of normalizing power price environment



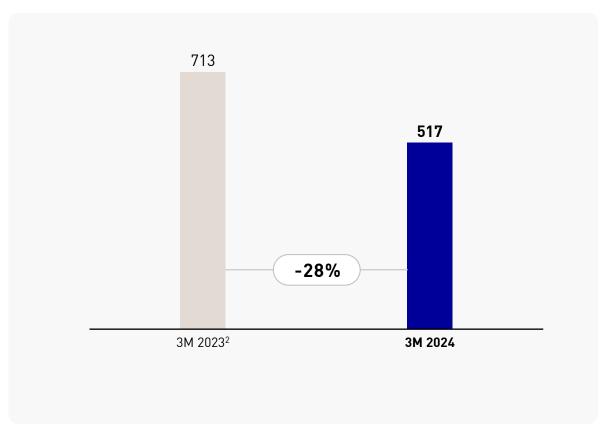
Adjusted EBITDA

n € m



Adjusted Group net profit¹

in € m

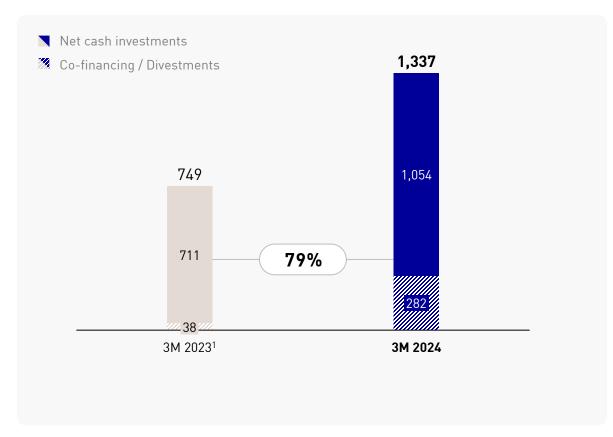


Reinforcing our investments in the energy transition with strong focus on renewables and grid

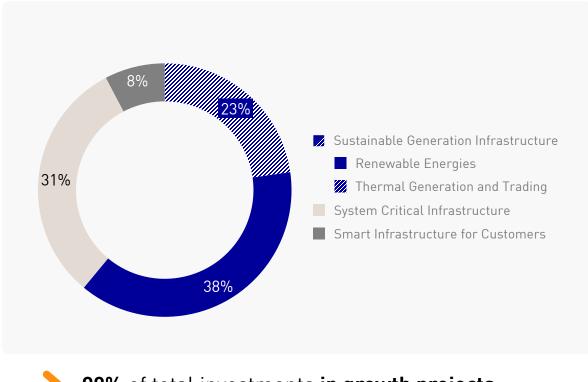


Total investments

in € m



Investments by segments

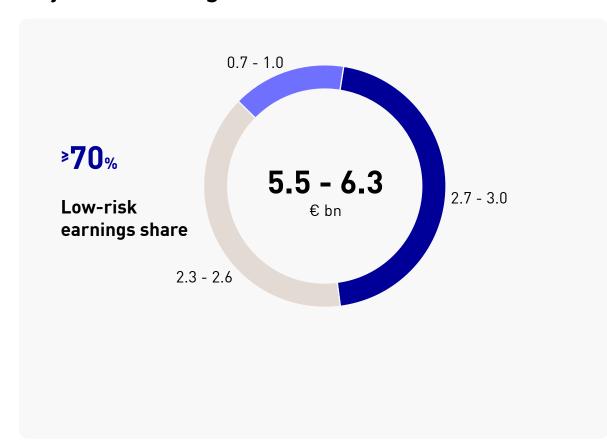


> 90% of total investments in growth projects

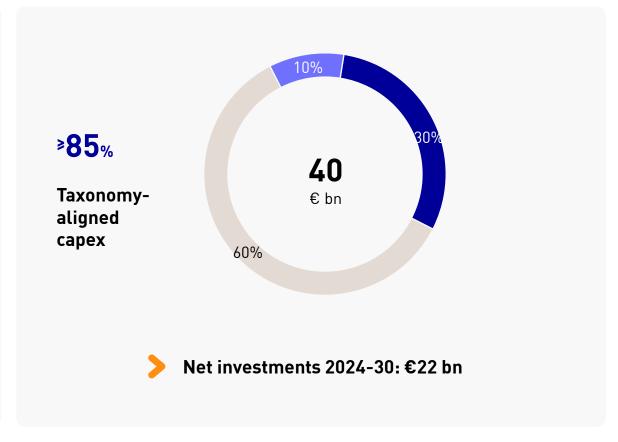
Outlook 2030: Integrated setup with profitable growth while building green future



Adj. EBITDA target 2030



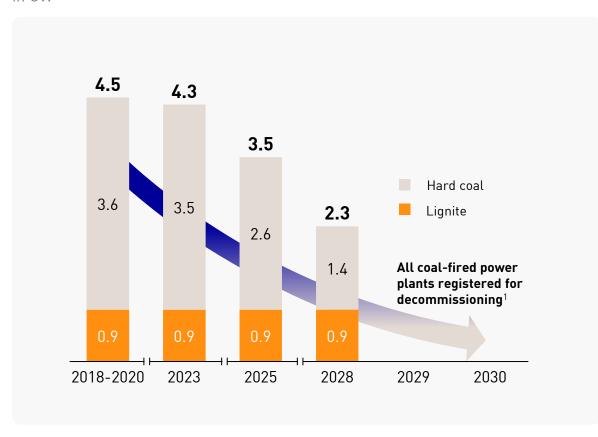
Gross investments 2024-30



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.



Funding strategy and credit strength

Diversified funding strategy



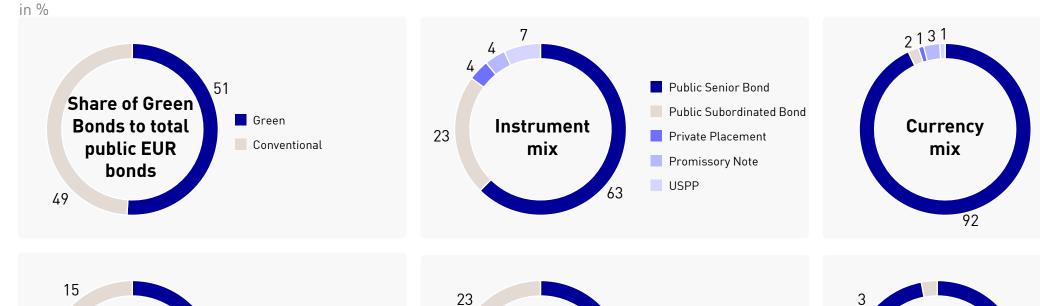
\mathcal{L}{\sqrt{\text{L}}}	Funding volumes	€2.5 - 3 bn p.a. on average	Refinancing of maturing liabilitiesFunding of corporate growth
	Tenors	2 - 30 years	 EnBW's assets are typically characterized by long life cycles Decision based on market demand, maturity profile & interest levels
	Green financing	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
<u>~~</u>	Currencies	EUR, CHF, USD, GBP & JPY outstanding	 Asset base related: main focus EUR but also CHF, USD & GBP Flexible use of opportunities
X	Diversification	in instruments, currencies & markets	 Bonds, promissory notes, USPP Exploring new markets to make use of existing opportunities Public offerings & private placements

EUR

USD

EnBW is prepared to scale up in diversification





Tier

mix

Senior

Subordinated



Target share

sustainable

financing

Sustainable

Conventional

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



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

oject categories		
.,	EU taxonomy	UN SDGs
Offshore wind Onshore wind Solar (PV)	4.3 Electricity generation from wind power (NACE: D.35.11)	7 dissected see
Electricity distribution infrastructure	4.9 Transmission and Distribution of Electricity (NACE: D.35.12, D.35.13)	7 distributions 9 magnitudes 10 magnitudes 1
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 PRINCEPOR INFORMATION 13 CLICATE CONTROL OF THE PRINCEPOR INFORMATION IN CONTROL OF THE PRINCEPOR IN CONTROL OF
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 PROTECTIONS TO THE SECOND TO
	Onshore wind Solar (PV) Electricity distribution infrastructure Smart meters E-mobility	Onshore wind Solar (PV) Electricity distribution infrastructure 4.9 Transmission and Distribution of Electricity (NACE: D.35.12, D.35.13) 7.5. Installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings (NACE: D.35.13) E-mobility charging infrastructure 4.9 Transmission and Distribution of Electricity (NACE: D.35.12, D.35.13) 6.15 Infrastructure enabling low-carbon road transport and public transport

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





Offshore & Onshore wind







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

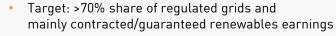
- €500 m October 2018 Green Senior
- €500 m August 2021 Green Subordinated
- €1 bn November 2022 Green Senior
- €1.5 bn November 2023 Green Senior

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



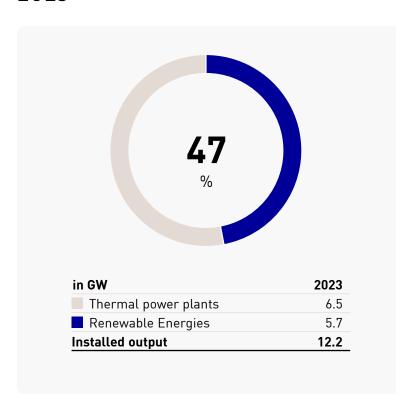
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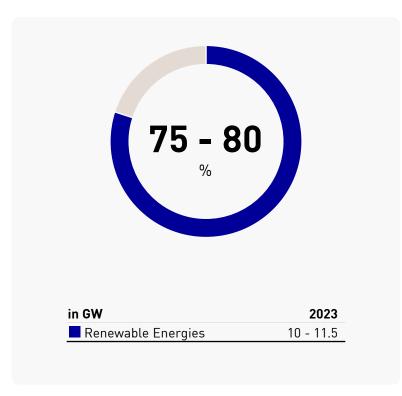
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Sustainable Generation Infrastructure

Share of generation capacity accounted for by renewables 2023



Share of generation capacity accounted for by renewables target 2030



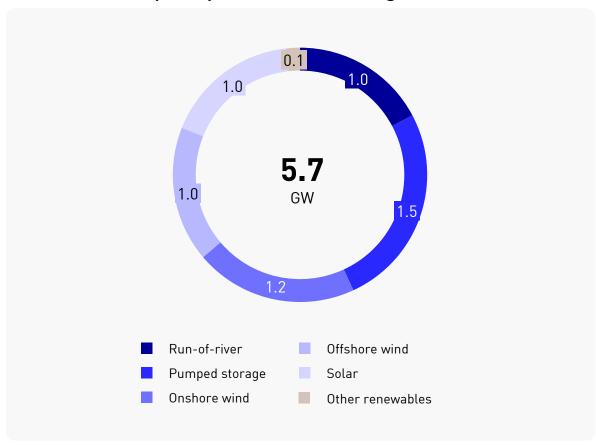
Energy trading

- 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
- Hedge levels¹
 2024: already almost fully hedged,
 2025: 70 90%, 2026: 30 60%, 2027: 0 20%

¹ As of 31 March 2024.



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, North Sea
Capacity	960 MW 64 turbines (Vestas V236 15 MW)
Area	63 km²
Water depth	38 - 41 m
Commissioning	2025
Remuneration	Without EEG funding

>50% capacity secured via PPAs

49.9% consortium of Allianz Capital Partners, AIP and Norges Bank Investment Management

50.1% EnBW

Shareholders



Mona and Morgan



Location	UK, 30 km off the coast of Britain
Capacity	3 GW (leases)
Area	~300 km² Morgan ~500 km² Mona
Water depth	35 m
Commissioning	2029/30e Depending on grid connection
Remuneration	CfD, PPA and/or merchant offtake in 55 years operation time
Shareholders	50% EnBW 50% bp



Morven

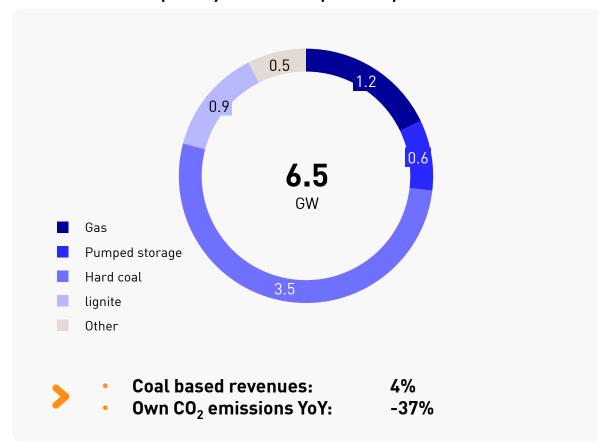


Location	UK, 60 km off the coast from Aberdeen
Capacity	~2.9 GW
Area	~860 km²
Water depth	65 - 75 m
Commissioning	2035e Depending on grid connection
Remuneration	CfD, PPA and/or merchant offtake in 55 years operation time
Shareholders	50% EnBW 50% bp

CfD: Contract for Difference.



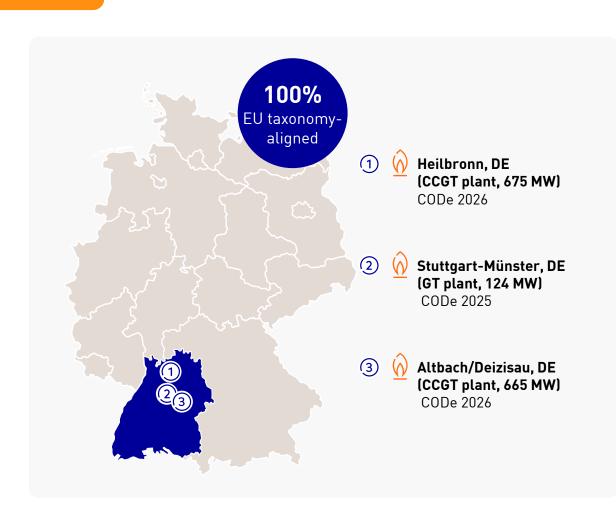
Generation capacity thermal power plants 2023



- 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 (TSO) to long-term partners

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

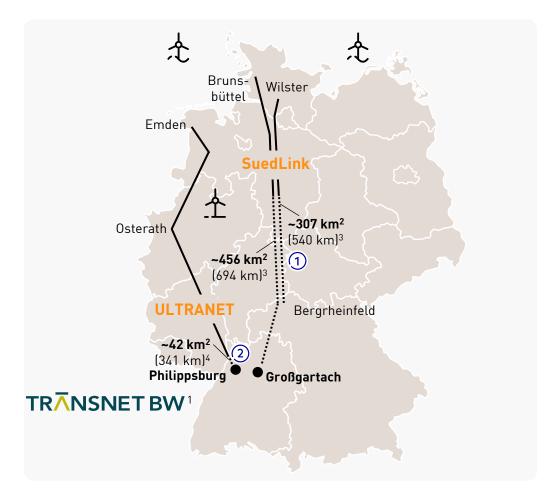
• **Employees**: 11,635

As of 31 December 2023. 24





Our lighthouse projects – electricity transmission grids



Expansion of electricity transmission grids to ensure security of supply in Germany

DC expansion

SuedLink 4 GW corridor

2028

1 TransnetBW contribution

Investment volume: >€5 bn

1 converter, ~763 km power lines²

ULTRANET 2 GW corridor

TransnetBW contribution

Investment volume: €1.6 bn

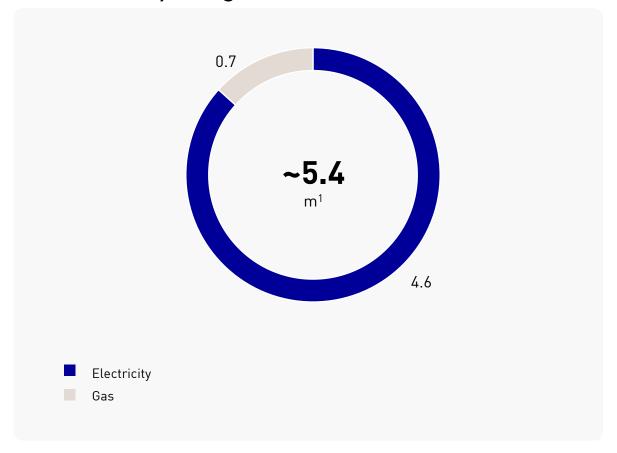
1 converter, ~42 km power lines²

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 expected 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

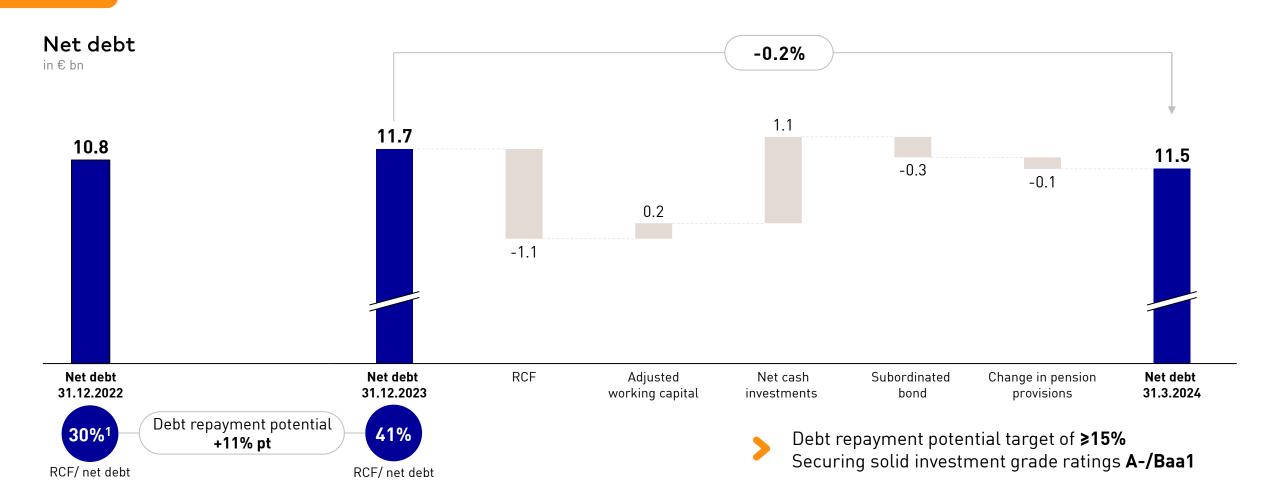
EMP: Access to >600,000 charging points in 17 European countries EnBW mobility+ app downloaded >2.4 m times

• Investments: €0.4 bn, mainly in e-mobility

• **Employees**: 5,711

Net debt - investments offset by equally high RCF



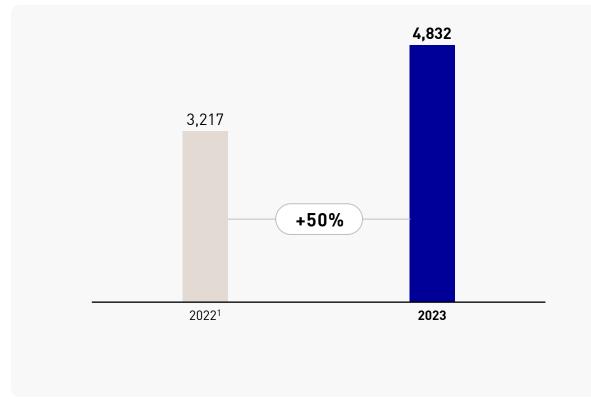


Retained cash flow



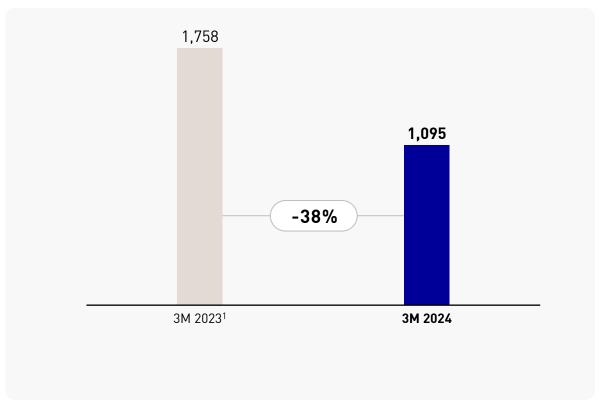
RCF increased to €~4.8 bn in light of higher FFO driven by strong operating earnings

in € m



RCF marked by lower operating earnings and higher dividends

in € m

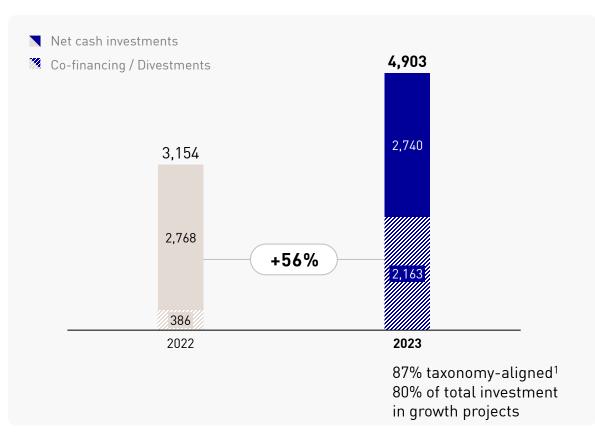


Reinforcing our investments in the energy transition with strong focus on renewables and grid



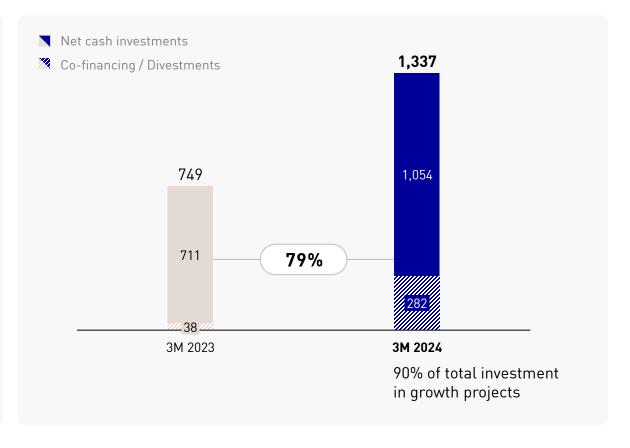
Total investments 2023

in € m



Total investments 3M 2024

in € m



¹ Taxonomy-aligned capex according to the EU taxonomy definition incl. expanded capex for our taxonomy-compliant at equity business activities.

Financial calendar and important links



Upcoming events



Publication of figures for 6M 2024 09 August 2024, 01:00 p.m. CEST Investor and analyst conference call



Publication of figures for 9M 2024 12 November 2024, 01:00 p.m. CET Investor and analyst conference call



Important links



Download now (PDF, 3.6 MB) Download now (PDF, 11.5 MB)
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