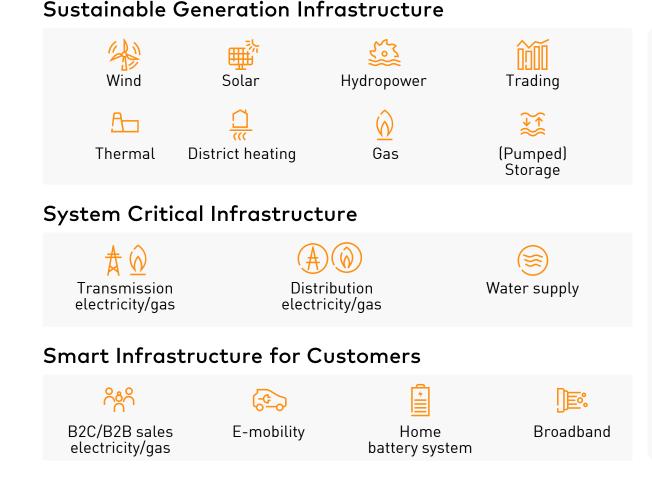
February 2025

## – ՀոՑա

# Investor presentation February 2025

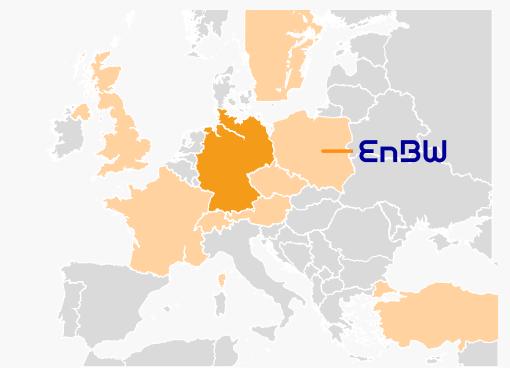
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# EnBW group – the leading integrated utility in Germany and a key player in the energy transition



#### Regional footprint in our core market Germany and beyond

• Austria, Czech Republic, Denmark, France, Poland, Sweden, Switzerland, Türkiye, United Kingdom



## EnBW at a glance



Well-balanced integrated business model	> <b>12</b> GW generation capacity	<b>180,000 km</b> power & gas grids	> <b>700,000</b> charging points across Europe (roaming)	<b>5.5</b> m B2C & B2B customers
Well-positioned utility with robust financial performance	<b>104</b> years energy services	<b>~30,000</b> employees	<b>A-, Baa1</b> credit ratings (S&P and Moody's)	€ <b>6.4</b> bn adj. EBITDA FY23
Strong ESG focus on energy transition	~ <b>90%</b> taxonomy-aligned capex	~ <b>6.5</b> GW Installed renewables capacity	<b>AA, A-</b> ESG ratings (MSCI, CDP)	<b>2035</b> climate neutrality



## Sustainably strong earnings performance supports reaching the strategic target by 2030

#### 6.4 in € bn 5.5 - 6.3 €44.4 bn 4.6 - 5.2 Retained cash flow: €4.8 bn 4.0 4.6 3.0 2.8 Gross investments: €4.9 bn 2.6 2.4 1.8 Taxonomy-aligned 1.1 **v**0.5 /0.2 87% -0.2 -0.3 2019 2020 2021 Guidance Target 2022 2023 2024 2030 €11.7 bn Sustainable Generation Infrastructure System Critical Infrastructure Smart Infrastructure for Customers Other/consolidation A- (S&P) Baa1 (Moody's) Uncertainty in Power price Decline in European ٠ Robust delivery despite: AA (MSCI) commodity volatility power prices markets (2022) (2023)(2024)**A-** (CDP)

#### FY 2023

•

•

•

capex:

Net debt:

• Credit ratings:

ESG ratings<sup>1</sup>:

Revenues:

#### Adj. EBITDA development (2019-2023) with guidance 2024 and target 2030

Investor presentation February 2025

# Core strategic focus on driving the energy transition in our countries of operation (H1 2024)



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We continuously increase our renewables portfolio ...

... and consistently reduce our coal assets ...



... while strengthening our balanced integrated portfolio.

+0.2 GW (to 6.5 GW) Installed renewables capacity<sup>1</sup> to mid-2024 vs FY23

-0.6 GW (to 3.1 GW = ~28% of total capacity) Coal-based capacity to mid-2024 vs FY23 **1.5 GW** (under construction) H<sub>2</sub>-ready new flexible capacity

>55% Renewables installed capacity share in H1 2024

**3%** (-1% pt yoy) Coal-based revenues in H1 2024 >800 km (under construction) TSO power links projects

**5 GW** Offshore pipeline<sup>2</sup> -100 g/kWh (to 290 – 350 g/kWh) CO<sub>2</sub> intensity 2024 target adjusted > 6,000 Fast-charging points<sup>3</sup>

Rounded figures as of 30 June 2024. |<sup>1</sup> Includes pro forma renewables portfolio as of 31 December 2023 incl. reallocated 0.5 GW pumped storage and new onshore/solar additions in H1 2024. |<sup>2</sup> Includes 3 GW UK offshore seabed projects (EnBW pro rata share), 1 GW German seabed offshore project and 1 GW German project He Dreiht (under construction). |<sup>3</sup> As of December 2024; Germany.

Highlights 9M 2024: Resilient performance and steady delivery of our strategy towards green transition

#### • 9M results in-line across all segments returning to normality

• 2024 guidance on track and confirmed

- MSCI upgrades EnBW to ESG leader (AA)
  - First green Australian \$ bond successfully placed and very well received

- Successful installation of all foundations for He Dreiht offshore wind farm & >180 MW solar park projects secured at German solar public tender
- Work begins on second section of **SuedLink** transmission line in EnBW's core region Baden-Wuerttemberg & **first fire in H**<sub>2</sub>-ready new gas-fired power plant

Investor presentation February 2025



(leader position)

€3.7 bn

Adj. EBITDA

9M 2023: €4.9 bn

A\$1.0 bn

€1.3 bn

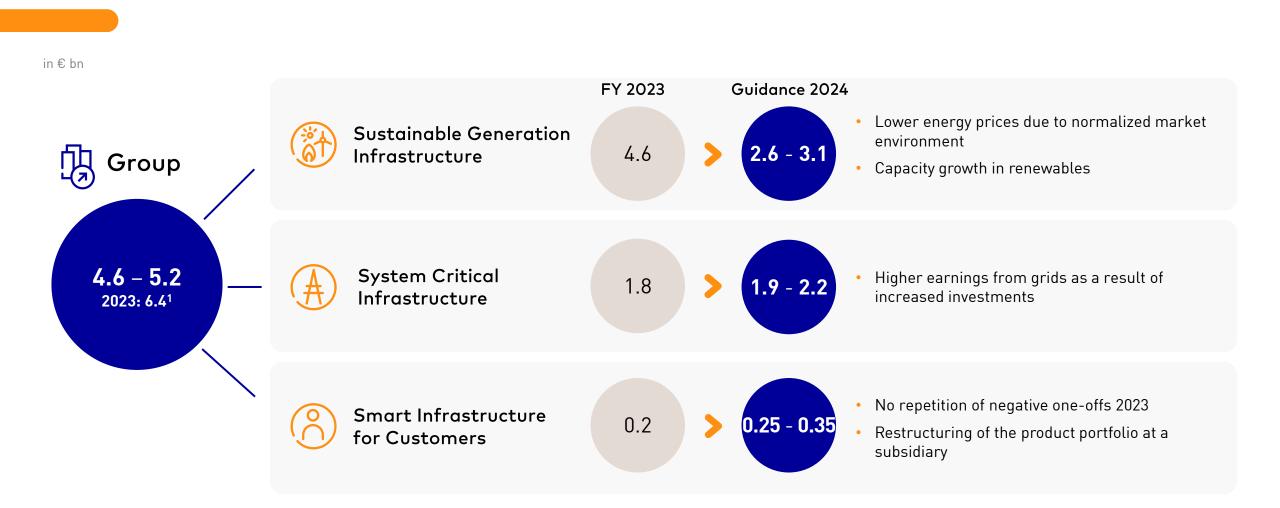
Adj. net profit<sup>1</sup>

9M 2023: €2.4 bn

Inaugural green dual-tranche bond (10/24)

## Guidance 2024 confirmed





# With our integrated setup we focus on energy infrastructure, -EnBW renewables and smart products for our customers

#### Strategy 2025

Focus on the infrastructure aspects of existing energy-related business fields

Development of a balanced and diversified business portfolio along the entire value chain

- Sustainable Generation Infrastructure
- System Critical Infrastructure
- Smart Infrastructure for Customers

#### Benefits

- Integrated strategy along the entire energy value chain
- Demonstrated resilience to adverse market developments
- Quick adaptation to political and social changes
- Investments in energy transition protect us against crises
- Reduced import dependency, improved cost structures, climate protection
- Commitment to continue this path

#### Outlook 2030

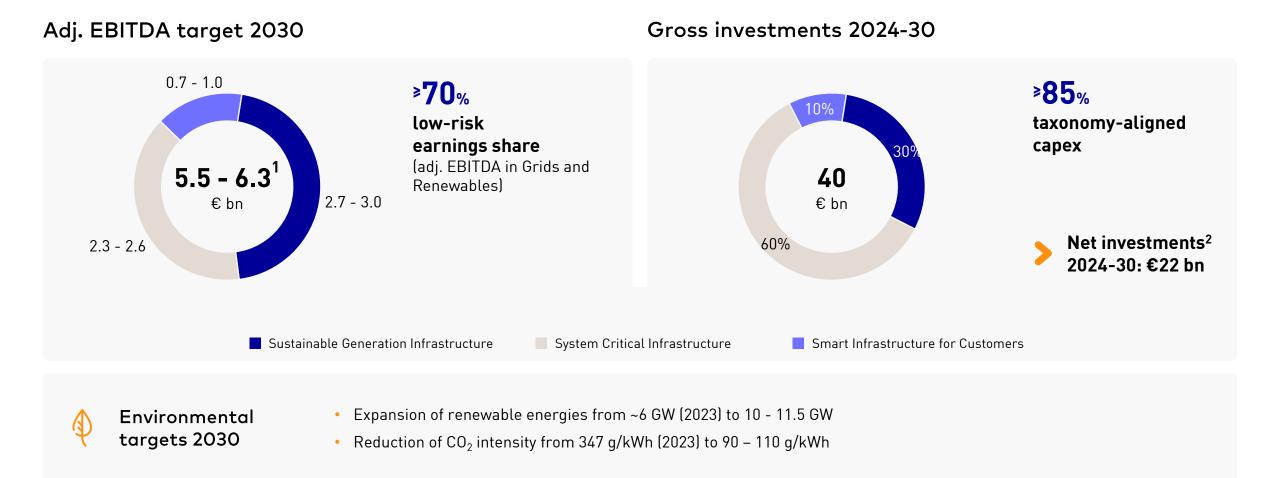
Update of the 2025 strategy with an outlook to the period up to 2030:

- Rigorously push forward the **expansion of** the energy infrastructure
- **Roll-out** of renewable energies and grid infrastructure
- Development of **smart products and services** for our customers that support the energy transition at home and on the move



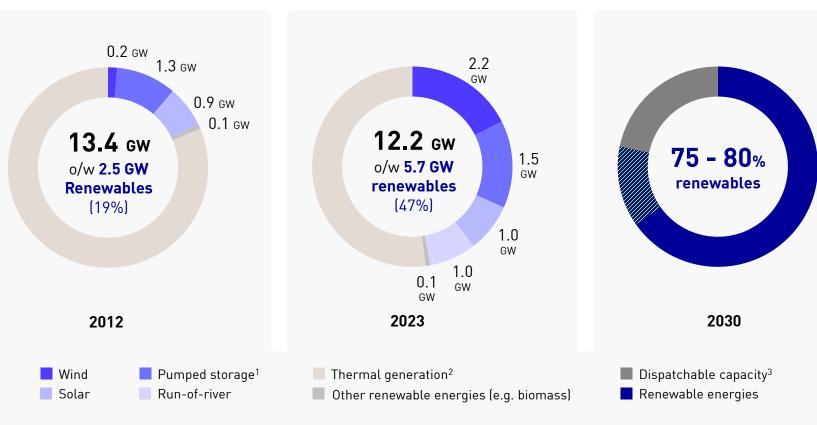
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# Outlook 2030: Integrated setup with profitable growth while building a sustainable future



EnBW is fundamentally transforming its generation portfolio towards climate neutrality by 2035

#### Transformation of the EnBW generation portfolio



#### Major developments

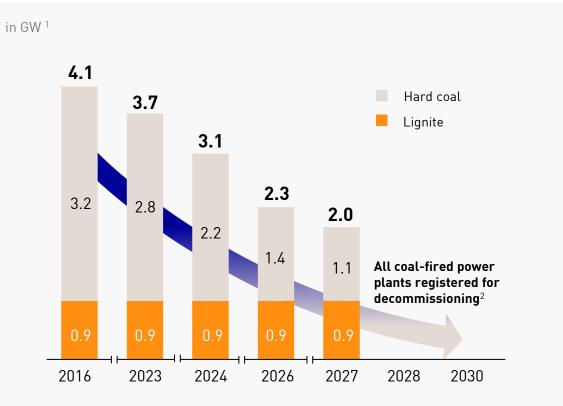
- Significant expansion of the portfolio
- **Renewable** portfolio increases to **10 11.5 GW** by 2030
- Thermal generation is gas-based; coal-free in 2028
- Switch to climate-neutral **hydrogen** as soon as available
- Almost zero emissions subsequently achieved in the power plant portfolio

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## EnBW keeps pushing the energy transition forward



Early coal phase-out by 2028 in line with our SBTi targets, way ahead of German legal framework



#### Well on track with our climate neutrality roadmap



Clear decarbonization path aligned to Paris Agreement (1.5°C pathway) for our own emissions validated by SBTi



Funding strategy and credit strength

## Diversified funding strategy

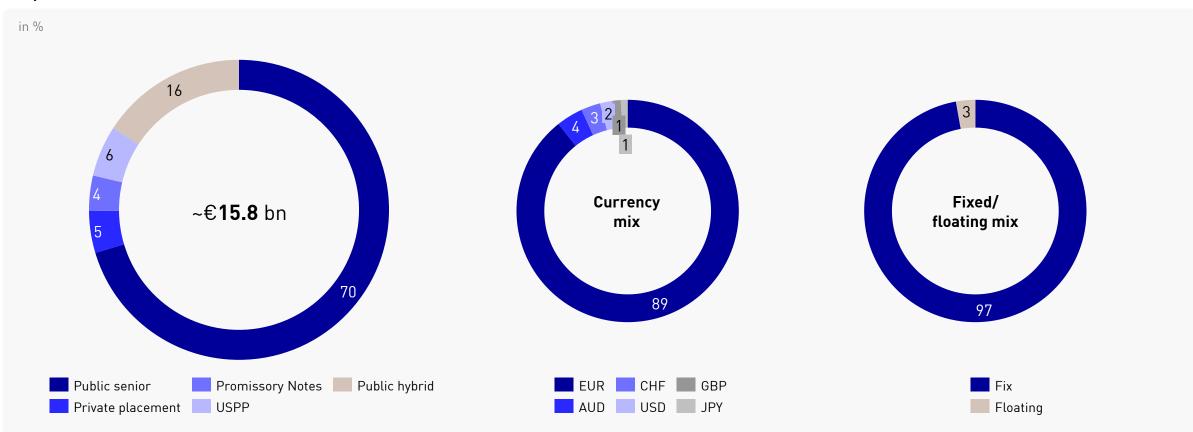


~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Funding volumes	€ <b>2.5</b> - <b>3</b> bn p.a. on average	<ul><li>Refinancing of maturing liabilities</li><li>Funding of corporate growth</li></ul>
٢	Tenors	up to <b>30</b> years	<ul> <li>EnBW's assets are typically characterized by long life cycles</li> <li>Decision based on market demand, maturity profile &amp; interest levels</li> </ul>
Þ	Green financing	Cumulative total issuance of € <b>7.8</b> bn¹	<ul> <li>First green bond issued in 2018</li> <li>Target 2030: At least 85% of all new issues to be sustainable</li> <li>Green Financing Framework use of proceeds 100% environmentally sustainable</li> </ul>
\ <u>~~</u>	Currencies	EUR, CHF, USD, AUD, GBP & JPY outstanding	<ul> <li>Main focus EUR but also AUD, CHF, GBP, JPY &amp; USD</li> <li>Flexible use of cross-currency opportunities</li> </ul>
X	Diversification	in <b>instruments</b> , <b>currencies</b> & markets	<ul> <li>Bonds, promissory notes, USPP</li> <li>Exploring new markets and broadening investor base</li> <li>Public offerings &amp; private placements</li> </ul>

## Prepared to scale up in diversification



#### Capital market debt



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100%

## Green Financing Framework reflects commitment to – sustainability, best market practices and regulatory framework

Use of proceeds

#### Key facts

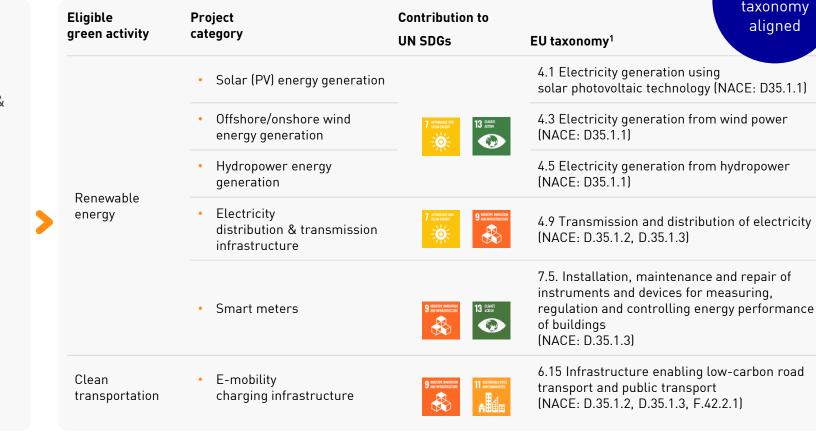
- First published in 2018 and most recently updated in 2024
- Alignment with ICMA Green Bond Principles & LMA Green Loan Principles

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Second-party opinion by ISS-Corporate

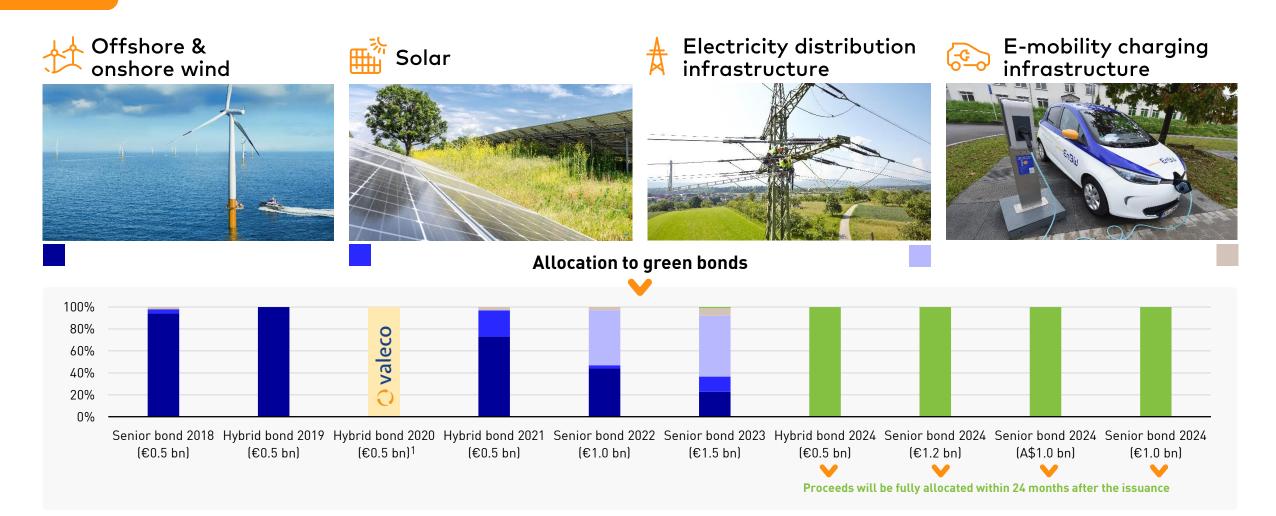
Green Financing

Framework



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Allocation of eligible green assets to green bonds reflects the value chain of a fully integrated utility



<sup>1</sup> The proceeds were used to refinance the acquisition of French wind and solar company Valeco in 2019.

## Key credit strengths



#### Integrated portfolio approach

• Demonstrated resilience across cycles and crises

### 

#### Stable government-related shareholder structure

 >93% of share capital constantly held by Baden-Wuerttemberg (thirdlargest German state) and OEW (an association of counties)

## $\bigcirc$

#### High share of low-risk business

 Target 2024-30: >70% share of regulated grids and contracted or guaranteed renewables earnings

#### () ()

#### Attractive energy transition investment

• €40 bn of gross investments 2024-2030 with ≥85% environmentally sustainable capex

#### Strong financial performance

Strong FY23 and good 9M 24 earnings performance, robust FY24 guidance

#### Prudent hedging strategy

• Locking in margin up to three years in advance in addition to natural hedge between own generation and sales

#### Strict balance sheet management

• Commitment to strong capital structure and solid investment grade ratings

#### Strong ESG focus

Validated SBTi emission reduction targets lead the way to climate neutrality of our own emissions in 2035

## Additional information



- **19** Segment overview
- 28 9M 2024 overview
- 34 Financial calender, important links & IR contacts

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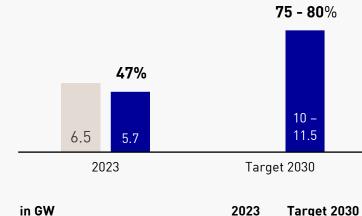
### Sustainable Generation Infrastructure

## Installed renewables capacity on the rise

### Activities

• Power generation and marketing of electricity, district heating, trading, gas storage

#### Share of generation capacity



in GW	2023	Target 2030
Thermal power plants	6.5	
Renewable energies	5.7	10 - 11.5
Installed capacity	12.2	
Installed capacity	12.2	

### Energy Trading

• EnBW follows a risk mitigating hedging strategy focused on reducing the earnings impact from price fluctuations

Goals

- Forward hedging of our expected electricity generation up to 3 years in advance, whilst also hedging the prices for necessary fuels and emission allowances
- Sales contracts closed on back-to-back basis
- Hedge levels
   2025: almost fully hedged
   2026: 60 80%, 2027: <40%</li>

#### Thermal Generation and Trading | Renewables

• Adj. EBITDA 2023<sup>1</sup> : €2.9 bn | €1.7 bn Share of total adj. EBITDA: 46% | 27%

Joint ventures with bp to build 5.9 GW offshore wind farms in the UK by 2029

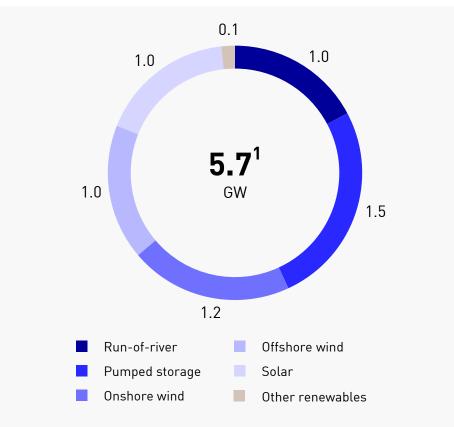
30% of all investments will be on the expansion of wind farms and solar parks and the construction of climate-friendly, hydrogen-ready power plants until 2030

- Investments 2023: €0.6 bn | €1.2 bn
- Employees 2023: 7,563 (total segment)
- Generation capacity 2023: 6.5 GW | 5.7 GW
- Electricity generated 2023: 14 TWh | 13 TWh
- Under construction: 3 dispatchable H<sub>2</sub>-ready gas power plants, 1.5 GW in total | 230 MW onshore and 360 MW solar, 960 MW offshore, 4 GW offshore pipeline<sup>2</sup>

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# Sustainable Generation Infrastructure **Renewable energies**

#### Renewable generation capacity 2023



- Adj. EBITDA 2023: €1.7 bn<sup>2</sup> (27% of total adj. EBITDA)
- Investments 2023: €1.2 bn
- Employees 2023: 7,563 (Sustainable Generation Infrastructure)
- **Generation capacity 2023**: 5.7 GW (47% of total generation capacity)
- Electricity generated 2023: 13 TWh (48% of total generation)
- **Under construction**: 230 MW onshore and 360 MW solar, 960 MW offshore
- Offshore pipeline: 4 GW<sup>3</sup>

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## Our lighthouse projects – building out offshore wind



### 1 🛧 Mona and Morgan | 2 Morven

Location	United Kingdom
Capacity	3 GW (leases) Mona and Morgan 2.9 GW Morven
Commissioning	2029/30e Mona and Morgan 2035e Morven Depending on grid connection
Remuneration	CfD <sup>1</sup> , PPA and/or merchant offtake
Shareholders	50% EnBW 50% bp

### ③ Dreekant

Location	Germany, North Sea
Capacity	1 GW
Commissioning	2031
Remuneration	Without EEG <sup>2</sup> support PPAs will be used
Shareholders	100% EnBW

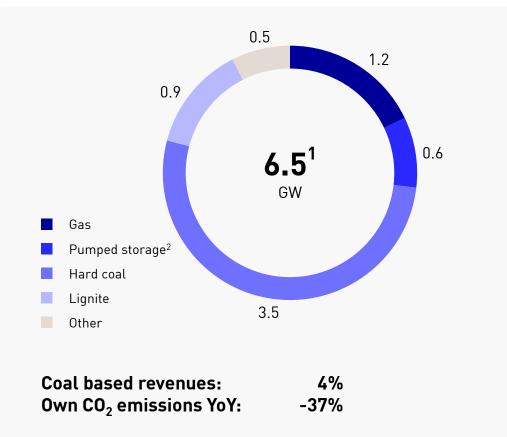
### ④ 🛧 He Dreiht (under construction)

Location	Germany, North Sea
Capacity	960 MW
Commissioning	2025
Remuneration	Without EEG support >50% capacity secured via PPAs
Shareholders	50.1% EnBW 49.9% consortium of Allianz Capital Partners, AIP and Norges Bank Investment Management



# Sustainable Generation Infrastructure **Thermal Generation**

#### Thermal Generation capacity 2023

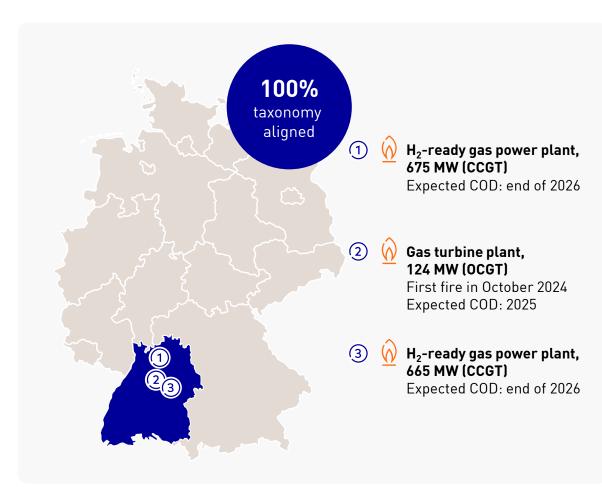


- Adj. EBITDA 2023 (including trading): €2.9 bn (46% of total adj. EBITDA)
- Investments 2023: €0.6 bn
- Employees 2023: 7,563 (Sustainable Generation Infrastructure)
- **Generation capacity 2023**: 6.5 GW (53% of total generation capacity)
- Electricity generated 2023: 14 TWh (52% of total generation)
- **Under construction**: 3 dispatchable H<sub>2</sub>-ready gas power plants (1.5 GW) with CODe 2025/26





## New-build projects – $H_2$ -ready flexible gas power plants



3 major fuel switch projects from coal to natural gas to climate neutral gases reduce CO<sub>2</sub> from dispatchable generation significantly

- Final Investment Decision in March 2022
- All 3 projects under construction
- Switch to natural gas reduces carbon emissions immediately by up to 55%
- Dispatchable H<sub>2</sub>-ready gas power plants pave the way to exit coal
- Support heat energy transition; located on sites with district heating or industrial heat requirement
- Profitable due to heat supply and contributing to security of supply
- Operation with climate-neutral gases expected from the mid-2030s





## Our electricity and gas grid business at a glance

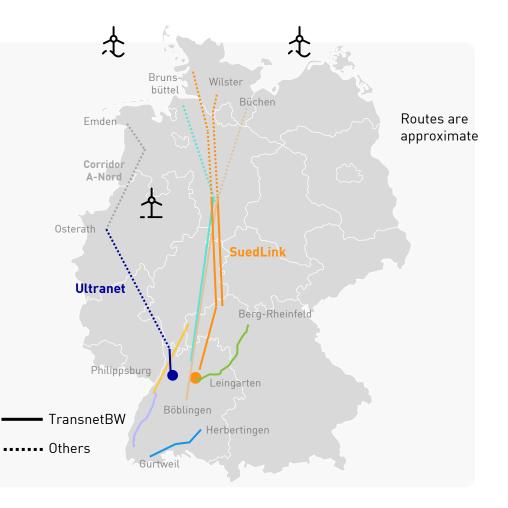
Overview	<b>~180,000</b> km electricity & gas grids	<b>3</b> TSO players	<b>12</b> DSO players	<b>~780</b> electricity & gas concessions of Netze BW (DSO)
ନ୍ଦୁ€ Financials & ESG	€ <b>1.8</b> bn adj. EBITDA	~ <b>40-45</b> % adj. EBITDA share (2024e)	<b>11,635</b> employees	<b>German Sustainability Award 2024</b> for Netze BW (DS0)
Aighlight projects	<b>SuedLink</b> key electricity HVDC transmission line	<b>Ultranet</b> new electricity HVDC transmission line	<b>Hydrogen core</b> <b>network</b> national transport infrastructure	<b>Grid booster</b> large battery-based storage system

(A) System Critical Infrastructure



# Our lighthouse projects – expansion of electricity transmission grids to support energy transition and security of supply

	Projects	Grid length total	Grid length TransnetBW	Scheduled
AC <sup>4</sup> grid reinforcement	Rhine river area in Baden		~121 km	2029
	North Baden- Württemberg		~82 km	2031
	North-east Baden- Württemberg		~99 km	2026
	Hochrhein		~140 km	2032
DC <sup>4</sup> grid expansion	SuedLink <sup>1</sup> 2x2 GW	~700 km	~450 km	2028
	Ultranet <sup>2</sup> 2 GW	341 km	~42 km	2026
	NordWestLink <sup>3</sup> 2 GW	~600 km	~440 km	earliest 2037
	SuedWestLink <sup>3</sup> 2x2GW	~730 km	~526 km	earliest 2037
			TR⊼I	NSNET BW



Source: BNetzA, EnBW, Net Development Plan (NEP 2037/2045 (2023). 1<sup>1</sup> In cooperation with TenneT. |<sup>2</sup> In cooperation with Amprion. |<sup>3</sup> In cooperation with TenneT and 50Hertz. |<sup>4</sup> AC and DC: alternating current and direct current.



## (A) Smart Infrastructure for Customers Supporting our customers with fast-charging and household energy solutions

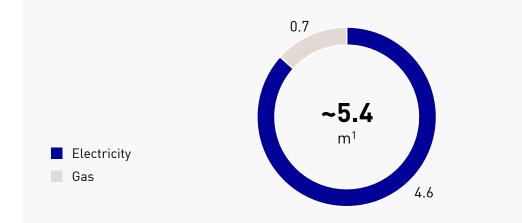
#### Activities

- Sale of electricity and gas, in addition to telecommunications
- E-mobility and home storage systems for solar electricity

#### Goals

- Focus on expanding fast-charging infrastructure for e-mobility to >20,000 points by 2030
- Expansion of household energy solutions, such as photovoltaics and storage

#### B2C electricity and gas customers



- Adj. EBITDA 2023: €0.2 bn Share of total adj. EBITDA: 4%
- Investments 2023: €0.4 bn, mainly in e-mobility
- Employees 2023: 5,711
- B2B and B2C customers<sup>2</sup>: 5.5 m
- Leading charge point operator and e-mobility provider in Germany
  - Largest fast-charging network in Germany with >6,000 fast-charging points (own infrastructure)<sup>3</sup>
  - Access to >700,000 charging points in 17 European countries<sup>3</sup> (roaming)
  - EnBW mobility+ app downloaded ~3 m times

### R) Smart Infrastructure for Customers



## Strengthening our leading position in e-mobility in Germany

#### EnBW is market leader in EV fast-charging



Most popular electromobility app in Germany!



~**3 million** downloads of EnBW mobility+ app

>**700,000** charging points across Europe in the "EnBW HyperNetwork"<sup>2</sup> (roaming)

>**6,000** fast-charging points in Germany (own infrastructure)

#### ~2,000

fast-charging locations in pipeline and 11,000 secured until 2026

#### 100%

green electricity at EnBW charging stations

#### What makes us unique

- EBITDA break-even expected in 2024
- Ranked as the winner in consumer tests as Germany's largest and best electromobility supplier and rated as VERY GOOD as a charging network operator for the third time in a row
- Market share in Germany<sup>1</sup>

   --EnBW
   20%

   T = 5 L =
   12%

   ØUIseo
   7%

   Allego>
   5%

   EWE SWD
   5%

#### **97**%

area coverage of EnBW fast-chargers within a 50 km radius



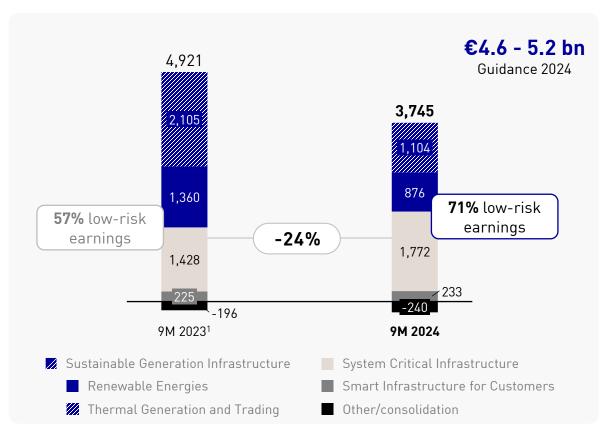
## 9M 2024 overview

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# 9M 2024 adjusted EBITDA reflects the normalization of energy markets

#### Adjusted EBITDA

in € m



#### **Renewable Energies**

- Lower earnings from pumped storage due to decreased spreads

#### Thermal Generation and Trading

 Normalized earnings level after extraordinarily high earnings contribution in previous year

#### Transmission and distribution grids

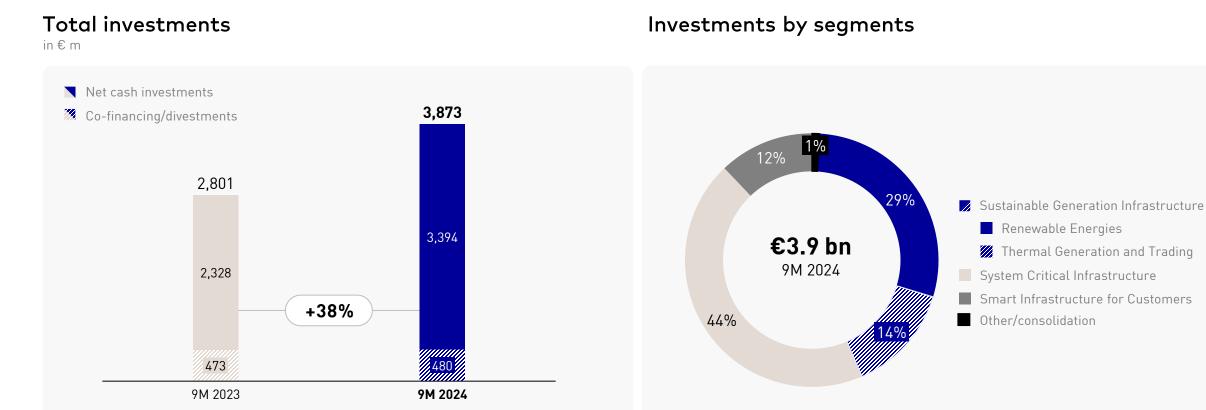
+ Higher earnings as a result of ramping up investments in grid expansion

#### Customer business

+ Absence of negative prior-year effect

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## Significant growth investments in low-risk business

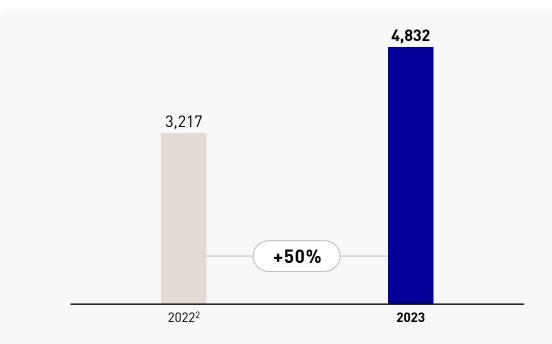


85% of total investments in growth projects89% taxonomy-aligned capex

## Retained cash flow<sup>1</sup>

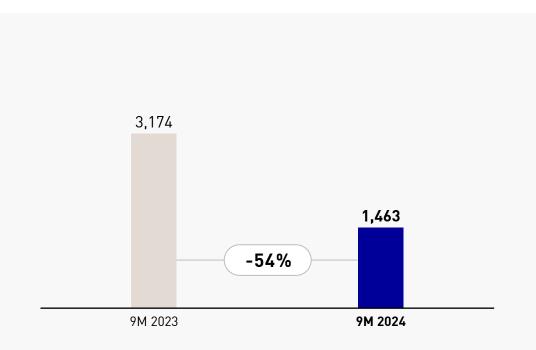


2023: Retained cash flow increased to  $\epsilon$ -4.8 bn in light of higher FFO driven by strong operating earnings in  $\epsilon$  m



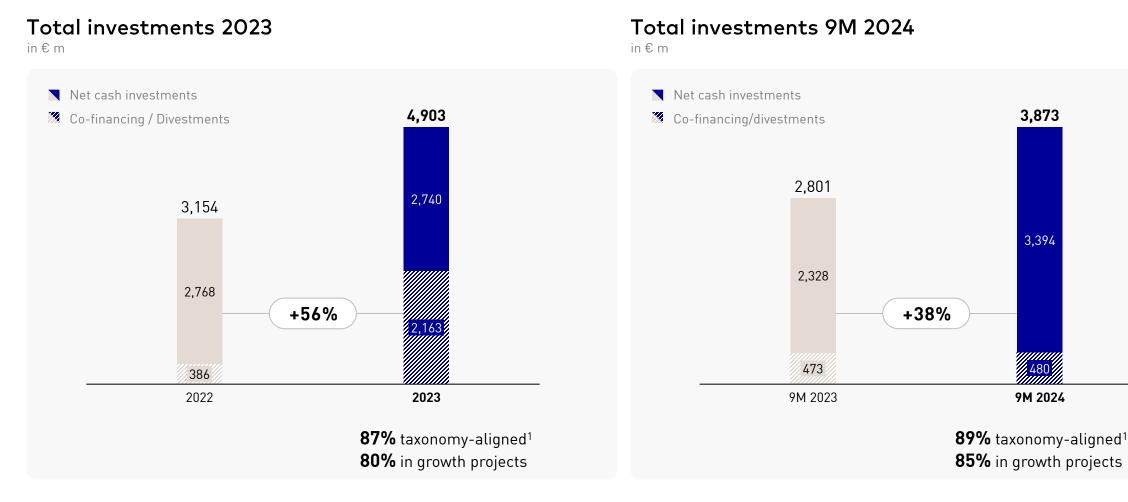
## RCF in the first 9 months reflects lower adjusted EBITDA and higher dividends

in € m



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

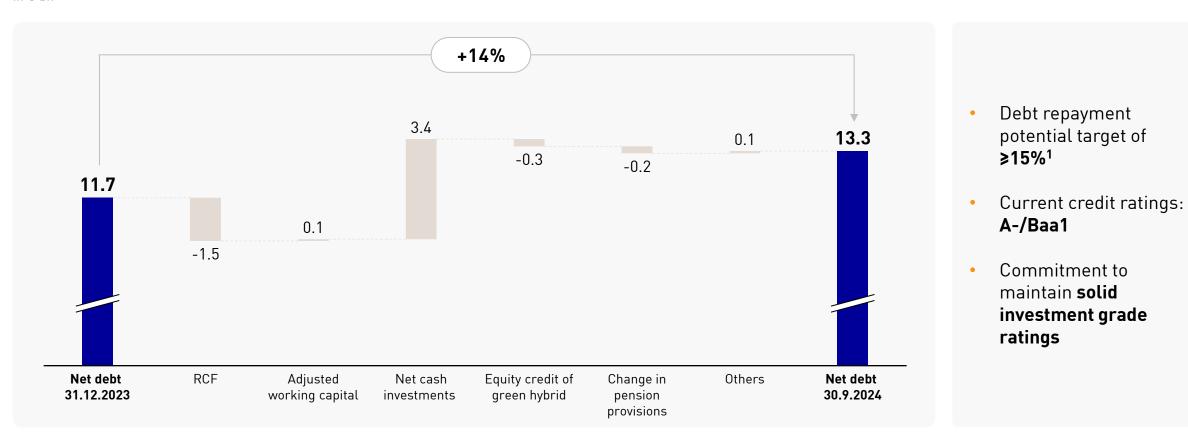


<sup>1</sup> Taxonomy-aligned capex according to the EU taxonomy definition incl. expanded capex for our taxonomy-compliant at equity business activities.

## Net debt in 9M 2024 mainly driven by growth investments



#### Net debt in € bn



## Financial calendar and important links



#### Upcoming event



Publication 12M 2024 26 March 2025, 02:00 p.m. (CET) Investor and analyst conference call



#### Important links

Quarterly Statement 9M 2024	(PDF)
Six-Monthly Financial Report 2024	(PDF)
Integrated Annual Report 2023	(PDF)
EnBW Factbook 2024	(PDF)
Green Bond Impact Report 2023	(PDF)
Green Financing Framework 2024	(PDF)
ESG Factbook 2024	(PDF)
EnBW Climate Transition Plan 2024	(PDF)
EnBW Investor website	Open website

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