

Carbon Reduction Plan

Supplier name: EnBW Energie Baden-Württemberg AG ("EnBW")

Publication date: Carbon Reduction Plan July 2025

Commitment to achieving Net Zero

EnBW is committed to setting medium- and long-term reduction targets based on scientific principles and in accordance with the Paris Agreement, ensuring that net zero emissions across all three scopes of the company's corporate carbon footprint are achieved by no later than 2050.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2018		
Additional Details relating to the Baseline Emissions calculations.		
<p><i>Baseline emissions of the SBTi validated targets. Since the validation, changes to the accounting regulations and an update of Scope 3 accounting have led to different baseline emissions in 2018. Until re-evaluated by SBTi, 2018 baseline emissions correspond to SBTi reduction targets. The updated baseline emissions correspond to emissions reported for 2024. Both the SBTi baseline emissions and the update baseline emissions are provided below.</i></p> <p><i>*Scope 3 baseline emissions as included in EnBW's SBTi target. In agreement with SBTi carbon accounting principles, the baseline was corrected to account for a gas retail company acquired in 2019.</i></p>		
Baseline year emissions:		
EMISSIONS	TOTAL (tCO₂e)	
	SBTi Baseline (corresponding to SBTi reduction targets until re-validated by SBTi)	Updated Baseline (corresponding to 2024 emissions reporting)
Scope 1	16 630 000	16 630 000
Scope 2	960 000	1 632 000
Scope 3 (Included Sources)	50 801 000* Upstream emissions of procured fuel (Scope 3 Cat. 3), Upstream emissions of sold gas (Scope 3 Cat. 3), Business travel (Scope 3 Cat. 6), Use of sold gas (Scope 3 Cat. 11)	52 009 000* Upstream gas sales (gas procurement) (Scope 3 Cat. 1), Fuel procurement and externally purchased fuel sold to end-users (Scope 3. Cat. 3), Purchased goods and services (Scope 3 Cat. 1/2), Waste (Scope 3 Cat. 5), Gas consumption by customers (Scope 3. Cat. 11), Investments (Scope 3 Cat. 15)
Total Emissions	69 006 000	70 271 000

Current Emissions Reporting

Reporting Year: 2024	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	8 862 000
Scope 2	691 000
Scope 3 (Included Sources)	30 356 000 Upstream gas sales (gas procurement) (Scope 3 Cat. 1), Fuel procurement and externally purchased fuel sold to end-users (Scope 3. Cat. 3), Purchased goods and services (Scope 3 Cat. 1/2), Waste (Scope 3 Cat. 5), Gas consumption by customers (Scope 3. Cat. 11), Investments (Scope 3 Cat. 15)
Total Emissions	39 909 000

Amendment to emission reporting

Data/information on all Scope 3 emission categories can be found in the table below.

Cat.	Name	Emissions 2018 [thou.t CO ₂ e]	Emissions 2024 [thou.t CO ₂ e]
3.1	Purchased goods and services ¹⁾	7,024	4,865
3.2	Capital goods	Reported together within 3.1	
3.3	Fuels and energy-related emissions ²⁾	1,294	3,753
3.4	Upstream transportation and distribution	Reported together within 3.1	
3.5	Waste ³⁾	426	552
3.6	Business travel ⁴⁾	<100	<100
3.7	Employee commuting ⁵⁾	<100	<100
3.8	Upstream leased assets	Taken into account in Scope 1	
3.9	Downstream transportation and distribution ⁶⁾	<100	<100
3.10	Processing of sold products	Does not apply for EnBW's business model	
3.11	Use of sold products ⁷⁾	43,265	20,553
3.12	End-of-life treatment of sold products ⁸⁾	<100	<100
3.13	Downstream leased assets ⁹⁾	<100	<100
3.14	Franchises	Does not apply for EnBW's business model	
3.15	Investments ¹⁰⁾	266	629

¹⁾ Includes emissions from purchased goods and services (2018: 782,000 - 2024: 1,856,483 t CO₂) and upstream emissions for sold gas (2018: 6,242,000 - 2024: 3,008,534 t CO₂). The GHG emissions for purchased goods and services were calculated based on the procurement volume and using emission factors based on NACE codes.

²⁾ Includes the upstream emissions from electricity and heating plants in Scopes 1 and 2, the upstream emissions from other fuels (vehicles, buildings), the upstream emissions from grid losses and the externally purchased electricity that we sell to end-users.

³⁾ Includes the volumes of waste from the annual reports of the waste management officers, plus the volumes of radioactive waste from EnBW Kernkraft.

⁴⁾ The Scope 3 emissions for our flights and train trips are based on data we receive from the booking agents and the German rail company Deutsche Bahn.

⁵⁾ We estimate the emissions from employee commuting based on an analysis of their places of residence conducted in 2023. We estimate days of remote working based on the BestWork decision from 2019.

⁶⁾ Includes the transport of sold power plant byproducts.

⁷⁾ Includes emissions from the combustion of gas by our customers.

⁸⁾ Includes power plant byproducts and SENEK energy solutions like battery storage, EV wall mounted chargers, PV panels etc.

⁹⁾ Includes the leasing of offices, real estate and vehicles from third parties.

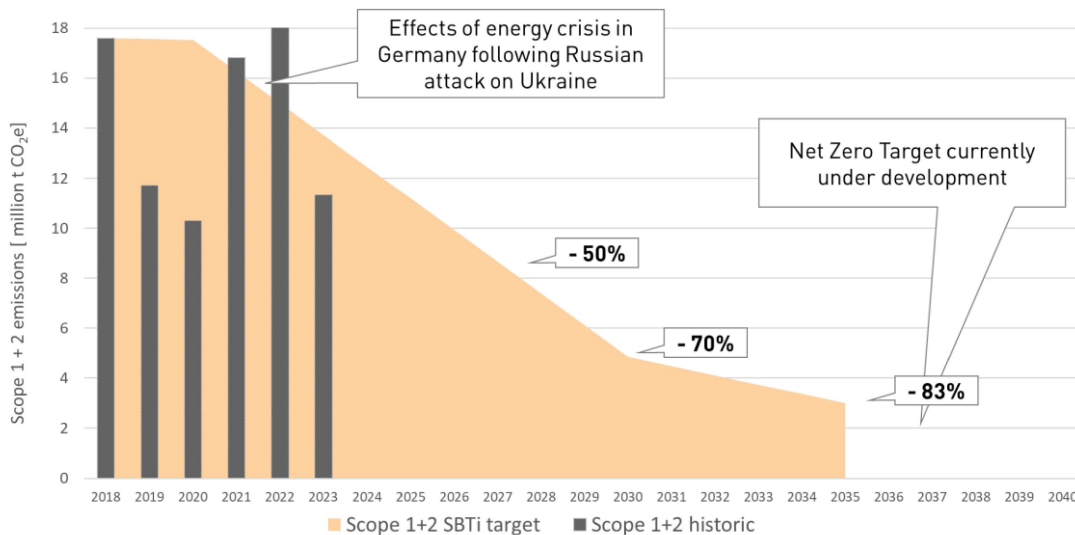
¹⁰⁾ Includes emissions from the activities of investments that are not fully consolidated (except for leased grid companies of Netze BW, because it was taken into account in Scope 1 and 2 and shell companies because they are not actively operating), as well as power plant investments, if not already included in Scope 3.3.

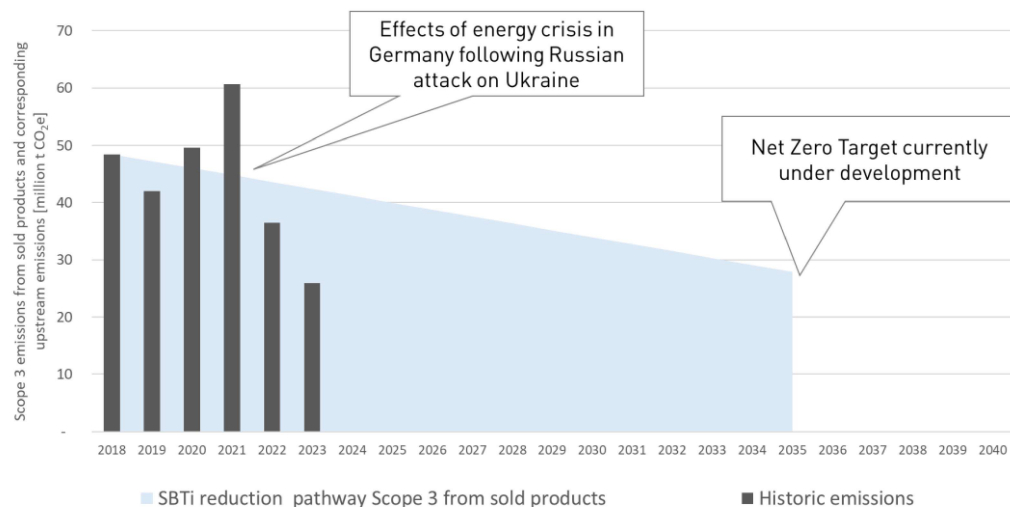
Emissions reduction targets

In order to continue our progress to achieving Net Zero, EnBW have adopted the following carbon reduction targets.

- By 2027, we will reduce Scope 1 and Scope 2 emissions to 8.8 million tCO₂e which corresponds to a reduction of 50% relative to a 2018 base year
- By 2030, we will reduce Scope 1 and 2 emissions to 5.28 million tCO₂e. This is a reduction of 70%. Our electricity generation carbon intensity will reach between 90 to 110 g/kWh by then.
- In 2035, Scope 1 and 2 emissions will be reduced by 83% to 2.99 million tCO₂e and our Scope 1+2 intensity will reach 57 g CO₂e/kWh or below which corresponds to a 87.4% reduction compared to 2018. (SBTi validated target)
- At the same time, the carbon intensity of all sold electricity in 2035 will be reduced to 65 g CO₂e/kWh which corresponds to a 87.4% reduction compared to 2018. (SBTi validated target)
- By 2035, Scope 3 emissions from the use of sold products and corresponding upstream emissions will be reduced by 42.5% relative to our 2018 base year emissions. (SBTi validated target)
- 2035 Company-wide carbon neutrality of Scope 1 and 2 emissions including at least 83% actual emissions reductions compared to 2018 (for remaining hard-to-abate emissions high-quality offsets from reliable certification frameworks (Gold Standard) will be used)

Progress against these targets can be seen in the graphs below:





Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the **2018** baseline. The carbon emission reduction achieved by these schemes equate to **31 million tCO₂e** in 2023, a **45%** reduction against the **2018** baseline and the measures will be in effect when performing the contract

- 2013: Commissioning of Germany's first offshore wind farm Baltic 1 in the Baltic Sea
- Over many years successful validation of ISO 14001 management measures for EnBW AG and most large subsidiaries
- 2020: Commissioning of the then largest German on shore PV project (187 MW)
- 2023: Total capacity of coal fired power plants decommissioned since 2013 reaches 1.7 GW
- 2023: Successful validation of EnBW's 2035 emission reduction targets in Scopes 1 to 3 by the SBTi confirming the compliance of the targets with the Paris agreement
- 2024: Reaching the 2025 target of a total onshore wind generation capacity of 4 GW and PV capacity of 1.2 GW contributing to a total renewable generation capacity between 6.5 and 7.5 GW early (2024: 6.6 GW/59% of installed capacity renewable)

In the future EnBW hope to implement further measures such as:

- 2025 Commissioning of Germany's largest offshore wind farm without state funding He Dreiht (960 MW)
- By 2027 in Germany, commissioning of a total of 1.5 GW of H2-ready gas-fired power plant capacity to replace coal fired generation in Germany
- 2028 in Germany, Coal Phase out throughout entire EnBW generation portfolio
- 2030/2031 in the UK, planned commissioning of offshore wind farms "Mona" and "Morgan" in the Irish sea in a partnership with bp and a total capacity of 3 GW providing 3.4 million UK households with electricity
- In the UK, start of construction of 2.9 GW offshore wind farm "Morven" in the 2030s off the east coast of Scotland in partnership with bp to provide electricity for more than 3 million UK households
- 2035 in Germany, Fuel Switch to low carbon/green gases (i.e. blue or green hydrogen) in new H2-ready gas-fired power plants

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².


Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier, ENBW Energie Baden-Württemberg AG:

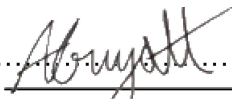
David Beaton

Director

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David Beaton (Jul 14, 2025 16:22 GMT+1)
Date:

Adam Guyatt

Director

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14 July 2025
Date:

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³<https://ghgprotocol.org/standards/scope-3-standard>