

Audi

**A6 Avant e-hybrid quattro
220 kW S tronic***

The life cycle assessment

Image shows vehicle from the production year 2026 with optional equipment.

* Audi A6 Avant e-hybrid quattro 220 kW S tronic: combined fuel consumption: 2.9 – 2.2 l/100; combined electric power consumption: 16.2 – 15.2 kWh/100 km; combined CO₂-emissions: 65 - 51 g/km; CO₂ Class: B

Life cycle assessment

Audi A6 Avant e-hybrid quattro 220 kW S tronic*

AUDI AG prepares a detailed life cycle assessment for new vehicle models at the start of production.

In the following, the Audi A6 Avant e-hybrid quattro 220 kW S tronic* with the German standard equipment without additional optional equipment is considered.

The methodology

The life cycle assessment (LCA) analyzes the environmental impact of a product throughout its life cycle (cradle-to-grave, see Figure 1). In a life cycle assessment for an AUDI AG vehicle, this is broken down into the following phases:

- **Production:**

Manufacture of the components (from the raw material to the finished component) and production of the vehicle model.

- **Usage:**

Use of a vehicle model based on a predefined driving profile (WLTP) with a mileage of 200,000 km including upstream processes from the fuel or energy supply.

- **Recycling** at the end of the product life.

In this life cycle assessment, the ecological impact categories of greenhouse potential, ozone formation potential, acidification potential, and eutrophication potential are quantitatively assessed. Further explanations can be found below.

When preparing the life cycle assessment, AUDI AG follows the procedure standardized in the international series of standards ISO 14040 ff.

The following premises were used as a basis for preparing the life cycle assessment:

- Production year 2026, model year 2026
- Material data and component parts list of the examined vehicle model
- Combined fuel and electric power consumption according to WLTP in 2026
- 200,000 km mileage in the use phase
- Testing and validation by independent experts (TÜV NORD CERT GmbH)

The life cycle assessment software “LCA for Experts” version 10.9.4.13. was used.

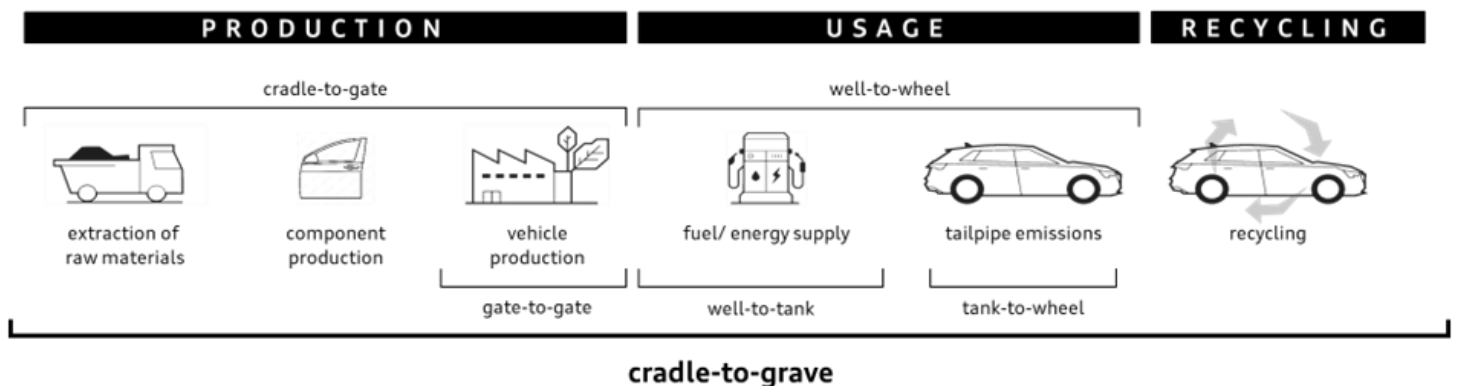


Figure 1: Scope of investigation of a life cycle assessment

* Audi A6 Avant e-hybrid quattro 220 kW S tronic: combined fuel consumption: 2.9 – 2.2 l/100; combined electric power consumption: 16.2 – 15.2 kWh/100 km; combined CO₂-emissions: 65 – 51 g/km; CO₂ Class: B

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The results - global warming potential over the entire life cycle

The global warming potential (GWP) describes the emissions of greenhouse gases that lead to an increase in the heat absorption of solar radiation in the atmosphere and thus can contribute to an increase in the global average temperature. The reference substance for the global warming potential is carbon dioxide (CO₂), to which all other active substances (e.g. methane (CH₄), nitrous oxide (N₂O), sulfur hexafluoride (SF₆), volatile organic compounds (VOC)) are related (CO₂ equivalents - CO₂-eq.).

The Audi A6 Avant e-hybrid quattro 220 kW S tronic* generates approximately 30.9 tons of CO₂-equivalent greenhouse gas emissions over its entire lifecycle, utilizing renewable electricity in battery cell production and during the usage phase. Without the implemented reduction measures, the value would be 40.0 tons of CO₂-equivalent. During the manufacturing phase, the greenhouse gas emissions of the Audi A6 Avant e-hybrid quattro 220 kW S tronic* are approximately 15.0 tons of CO₂-equivalent, which are reduced to 14.9 tons of CO₂-equivalent through CO₂-reducing measures, and logistics account for approximately 0.3 tons of CO₂-equivalent. Approximately 13.6 t CO₂-eq. of the Audi A6 Avant e-hybrid quattro 220 kW S tronic* are attributable to the use phase from fuel and electricity supply based on the EU electricity mix, or 4.7 t CO₂-eq. when using the EU green electricity mix, while 10.1 t CO₂-eq. result from vehicle emissions. This corresponds to around 60 % and 48 %, respectively, of total life-cycle greenhouse gas emissions. Maintenance generates 1.0 tons of CO₂-equivalent. Disposal generates 0.03 tons of CO₂-equivalent.

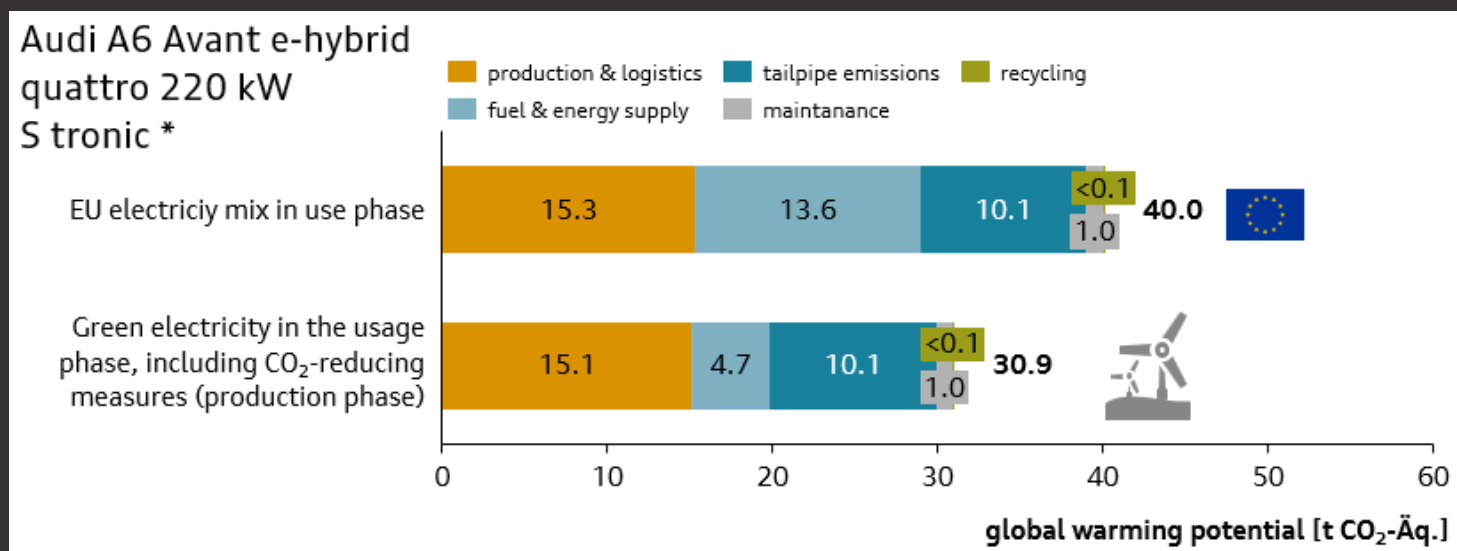


Figure 2: Global warming potential of the Audi A6 Avant e-hybrid quattro 220 kW S tronic* over the entire life cycle

* Audi A6 Avant e-hybrid quattro 220 kW S tronic: combined fuel consumption: 2.9 – 2.2 l/100; combined electric power consumption: 16.2 – 15.2 kWh/100 km; combined CO₂-emissions: 65 – 51 g/km; CO₂ Class: B

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The Results - Additional Impact Categories

In addition to the greenhouse potential, further impact categories were considered. The results for the entire lifecycle are listed in the table below:

	Baseline Value (EU electricity mix)	Green energy in the usage phase	Green energy in the usage phase and cell production
Greenhouse potential GWP [t CO₂-eq.]	40.0	31.1	30.9
Ozone formation potential POCP [kg NO_x-eq.]	56.8	48.3	48.2
Acidification potential AP [kg SO₂-eq.]	127.5	113.5	112.8
Eutrophication potential EP [kg PO₄-eq.]	11.7	9.9	9.7

The photochemical ozone creation potential (POCP) describes the formation of photochemical oxidants, which can develop from hydrocarbons, carbon monoxide (CO), and nitrogen oxides (NO_x) under the influence of sunlight. These can impair human health, disrupt the function of ecosystems, and damage plants.

The acidification potential (AP) describes the effects of the emission of oxygen-forming substances such as SO₂ or NO_x. These substances have various impacts on soils, waters, ecosystems, biological organisms, and materials (e.g. buildings).

The eutrophication potential (EP) describes an excessive release of nutrients into waters and soils, leading to an undesirable shift in species composition. Additionally, eutrophication in waters leads to oxygen deficiency.

Conclusion

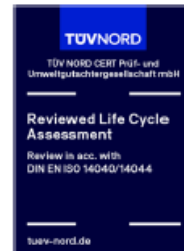
AUDI AG is aware of its responsibility towards the environment by putting vehicles on the market and is committed to the Paris Agreement on climate change. As part of this, AUDI AG is pursuing a consistent decarbonization strategy. The data basis for this is formed, among other things, by the life cycle assessments of the various vehicle models from Audi AG.

The life cycle assessment of the Audi A6 Avant e-hybrid quattro 220 kW S tronic* was checked by the external expert TÜV NORD CERT GmbH. Evidence of the rule-compliant application of DIN EN ISO 14040 was provided and a declaration of validity was issued. Further information on sustainability at Audi AG can be found at [Consistent and holistic: sustainability at Audi | audi.com](https://www.audi.com)

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Certificate of validity

DIN EN ISO 14040:2021 / DIN EN ISO 14044:2021
(product-related life cycle assessment - LCA)



Evidence that the application conforms to the regulations was delivered, and is herewith certified according to the TÜV NORD CERT Prüf- und Umweltgutachtergesellschaft mbH - procedure for

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Scope

Life Cycle Assessment Life Cycle Assessment " A6 Avant e-hybrid quattro 220 kW S tronic "

The requirements of the above-mentioned standards were evidently fulfilled by a critical review with regard to

- the scientifically justified and technically valid methods used in carrying out the LCA;
- the appropriateness of the data used in relation to the objective of the study;
- the consideration of the objective of the LCA and the identified limitations in the interpretations.

The LCA report (Ref: 35421003, Version 2) is transparent and self-consistent.

This declaration of validity refers exclusively to the functional unit at point in time of the LCA report.

Certificate Registration No. 44 712 110807-40
Audit Report No. 3542 1003

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