



## **Audi CO<sub>2</sub> program: sustainable aluminum for Audi e-tron GT wheels**

- **20-inch wheels for the Audi e-tron GT\* made of CO<sub>2</sub>-reduced aluminum**
- **Innovative aluminum smelting technology releases oxygen instead of CO<sub>2</sub>**
- **Marco Philippi, Head of Procurement Strategy: “This lets us increase our sustainability performance in the supply chain and ensure that our models arrive at the customers with a smaller carbon footprint”**

**Ingolstadt, March 23, 2021 – AUDI AG is systematically continuing its CO<sub>2</sub> program in the supply chain and, as a result, already reducing the CO<sub>2</sub> emissions of the parts used in Audi models in the production phase. As part of a pilot project, the company is procuring 20-inch wheels for the Audi e-tron GT\* that are made from low-CO<sub>2</sub> emission aluminum supplied by Alcoa to RONAL GROUP, the wheel’s manufacturer.**

Alcoa is supplying aluminum for Audi’s pilot project from a self developed, innovative smelting process that emits oxygen instead of carbon dioxide. The joint venture ELYSIS is now further developing this process. The ELYSIS smelting technology, which is currently being ramped up to a commercial scale with research in the USA and Canada, causes no direct CO<sub>2</sub> emissions when compared to the traditional process used to make aluminum. The joint venture company uses a so-called inert anode that replaces the carbon anodes that are traditionally used during electrolysis, which is the process used to make primary aluminum. An inert anode is insoluble in the electrolyte under the conditions obtained in electrolysis.

For the manufacture of the Audi wheels, Alcoa is supplying the RONAL GROUP with a blend of metal from the ELYSIS process and Alcoa’s own low-carbon aluminum. The 20-inch aluminum alloy wheels from RONAL GROUP are used as an optional equipment variant for the model and produced using flow-forming technology for weight optimization. The special propeller-shaped design of the rim improves the aerodynamic properties while driving. The mounted blades are just two to three millimeters thick, largely cover the wheels and thus help to ensure high aerodynamic efficiency.

As a gran turismo, the Audi e-tron GT\* was designed specifically for sportiness and efficiency, and it attains a drag coefficient of 0.24. This excellent value makes a significant contribution to the electric range of up to 488 or 472 kilometers (according to the WLTP). The Audi e-tron GT\* is the first Audi electric car to be built in the Böllinger Höfe at the Neckarsulm site in Germany. The site has been supplied with renewable energy since 2020. Since the start of series production of the e-tron GT\*, a biogas-operated combined heat and power plant has been supplying the heat required for production in the Böllinger Höfe. Audi uses carbon credits from certified climate protection projects to offset CO<sub>2</sub> emissions that currently cannot be avoided using renewable sources of energy.

\*The collective fuel consumption values of all models named and available on the German market can be found in the list provided at the end of this MediaInfo.



The RONAL GROUP produces the rims at its location in Landau, using 100-percent eco-electricity, and compensates the heat consumption with offsets. Audi, Alcoa and RONAL GROUP are members of the Aluminium Stewardship Initiative (ASI). At the beginning of the year, AUDI AG was the first car manufacturer to receive the “Chain of Custody” certificate from the ASI, which certifies that the company works with aluminum in a sustainable way, taking business-ethics-related, ecological, and social aspects into account.

In 2018, Audi initiated the “CO<sub>2</sub> program in the supply chain” with the aim of successively decarbonizing its supply chain. The program helps to already reduce CO<sub>2</sub> emissions in the upstream manufacturing processes for each produced vehicle. “Aluminum is the focus of our CO<sub>2</sub> program because producing this material requires a high energy input. The aluminum has already caused major CO<sub>2</sub> emissions in upstream processes before it even arrives at Audi. We are therefore actively searching for innovative processes that help reduce CO<sub>2</sub> emissions as early as possible in the creation process. The process created by ELYSIS is promising because it already takes effect in the raw material processing phase,” says Marco Philippi, Head of Procurement Strategy. “These kinds of innovations allow us to increase our sustainability performance in the supply chain and ensure that our models arrive at the customers with a smaller carbon footprint”.

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The Audi Group, with its brands Audi, Ducati and Lamborghini, is one of the most successful manufacturers of automobiles and motorcycles in the premium segment. It is present in more than 100 markets worldwide and produces at 19 locations in 12 countries. 100 percent subsidiaries of AUDI AG include Audi Sport GmbH (Neckarsulm, Germany), Automobili Lamborghini S.p.A. (Sant’Agata Bolognese, Italy), and Ducati Motor Holding S.p.A. (Bologna/Italy).

In 2020, the Audi Group delivered to customers about 1.693 million automobiles of the Audi brand, 7,430 sports cars of the Lamborghini brand and 48,042 motorcycles of the Ducati brand. In the 2020 fiscal year, AUDI AG achieved total revenue of €50.0 billion and an operating profit before special items of €2.7 billion. At present, around 87,000 people work for the company all over the world, 60,000 of them in Germany. With new models, innovative mobility offerings and other attractive services, Audi is becoming a provider of sustainable, individual premium mobility.

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### **Fuel consumption of the models named above**



*Information on fuel/electric power consumption and CO<sub>2</sub> emissions in ranges depend on the tires/wheels used as well as the selected equipment.*

**Audi e-tron GT quattro**

Combined electric power consumption in kWh/100 km (62.1 mi): 19.6–18.8 (WLTP);  
Combined CO<sub>2</sub> emissions in g/km (g/mi): 0 (0)

**Audi RS e-tron GT**

Combined electric power consumption in kWh/100 km (62.1 mi): 20.2–19.3 (NEDC),  
22.5–20.6 (WLTP); combined CO<sub>2</sub> emissions in g/km (g/mi): 0

The indicated consumption and emissions values were determined according to the legally specified measuring methods. Since September 1, 2017, type approval for certain new vehicles has been performed in accordance with the Worldwide Harmonized Light Vehicles Test Procedure (WLTP), a more realistic test procedure for measuring fuel consumption and CO<sub>2</sub> emissions. Since September 1, 2018, the WLTP has gradually replaced the New European Driving Cycle (NEDC). Due to more realistic test conditions, the fuel consumption and CO<sub>2</sub> emission values measured are in many cases higher than the values measured according to the NEDC. Vehicle taxation could change accordingly as of September 1, 2018. Additional information about the differences between WLTP and NEDC is available at [www.audi.de/wltp](http://www.audi.de/wltp).

At the moment, it is still mandatory to communicate the NEDC values. In the case of new vehicles for which type approval was performed using WLTP, the NEDC values are derived from the WLTP values. WLTP values can be provided voluntarily until their use becomes mandatory. If NEDC values are indicated as a range, they do not refer to one, specific vehicle and are not an integral element of the offer. They are provided only for the purpose of comparison between the various vehicle types. Additional equipment and accessories (attachment parts, tire size, etc.) can change relevant vehicle parameters, such as weight, rolling resistance and aerodynamics and, like weather and traffic conditions as well as individual driving style, influence a vehicle's electrical power consumption, CO<sub>2</sub> emissions and performance figures.

Further information on official fuel consumption figures and the official specific CO<sub>2</sub> emissions of new passenger cars can be found in the "Guide on the fuel economy, CO<sub>2</sub> emissions and power consumption of all new passenger car models," which is available free of charge at all sales dealerships and from DAT Deutsche Automobil Treuhand GmbH, Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, Germany ([www.dat.de](http://www.dat.de)).