Audi in Neckarsulm

Facts & Figures (as of: December 31, 2022)

- Founded: 1873 in Riedlingen (headquartered in Neckarsulm since 1880)
- Production 2022: 148,602 cars
- Plant manager: Fred Schulze
- Employees: 15,505
- Site footprint: 1,300,000 square meters (1,555,000 sq yd)
- Good to know: first site in Germany to produce a fully electric Audi model (Audi e-tron GT*)

Current model series at location
Audi A4, Audi A5 Cabriolet*, Audi A6, Audi A7, Audi A8, Audi R8, Audi e-tron GT*

Profile of location

The Audi Neckarsulm site has been manufacturing cars for over 100 years. Driven by innovative ideas, passion, and the pursuit of perfection, the site has developed from its beginnings as a knitting machine workshop to a modern car manufacturer. AUDI AG is one of the largest employers in the Heilbronn-Franken economic region. 15,505 people work here for the Mobility of the Future. On an area of approximately one million square meters (1.5 million sq yd), the company produces cars in the Audi A4, Audi A5 Cabriolet*, Audi A6, Audi A7, and Audi A8 series lines.

At the Böllinger Höfe industrial park near Heilbronn some six kilometers (3.7 mi) away, AUDI AG has now expanded its Neckarsulm plant by an area of approximately 300,000 square meters (350,000 sq yd). Audi Sport GmbH has its headquarters there, and it is the birthplace of the high-performance sports car Audi R8 and the fully electric Audi e-tron GT*.

With its expertise in small-series and volume production, the Neckarsulm plant is one of Europe’s most complex and boasts some of the greatest product variety of all VW Group locations. The site is constantly transforming into a smart factory and is taking steps to prepare for electrification. Since the end of 2020, Audi Neckarsulm has also been building the first fully electric Audi model to be made at a site in Germany: the e-tron GT quattro*. The company had to upgrade and expand the Böllinger Höfe plant to produce the Audi e-tron GT quattro* alongside the Audi R8 on a joint assembly line that is unique in the entire Volkswagen Group.
In the body construction shop, the models are largely produced separately. The company upgraded and retooled production at Böllinger Höfe so the Audi e-tron GT quattro* had to be expanded to cover new competencies in electrification, automation, and digitalization. At the same time, the plant holds true to its strengths. Böllinger Höfe thus represents a unique combination of craftsmanship and smart factory.

Audi Forum Neckarsulm is making a mark in the region and far beyond it. Since its opening in May of 2005, more than three million people have visited the brand experience world. On an area of more than 10,000 square meters (12,000 sq yd), customers, visitors, and fans alike can discover the fascination and variety of the Audi brand, the company, and the Neckarsulm site.

- This is also where new car owners come to pick up their Audi. Exhibits offer insight into the company’s tradition as well as the current product range and production at the plant. The Audi exclusive Studio offers comprehensive services for vehicle enhancement and individualization.
- At the Conference Center, facilities for conferences and creative workshops are available to business clients.
- The in-house restaurant Nuvolari offers guests first-class dining.
- With guided tours starting here, Audi Forum is both a brand experience world and the portal to the Audi plant. Tour guides give guests a glimpse at automobile production and acquaint them with the ins and outs of the site.
- The building also doubles as a venue for a variety of cultural events, from readings through to concerts and technology workshops for kids.

**Technical Development**

A total of 1,714 people work in the area of Technical Development at the Audi Neckarsulm site (as of 12/31/2022). The development of a complete high-voltage battery portfolio for fully electric vehicles will be located predominantly at that location. This strategic decision will intensify technical development for the future.

- **Competence Center for high-voltage batteries**: High-voltage batteries for plug-in hybrids (PHEVs) are already being produced in Neckarsulm. Now Audi is expanding high-voltage battery development there. In the future, personnel in high-voltage battery development – in close collaboration with high-voltage battery development at the Ingolstadt site – will be located primarily in Neckarsulm. Over the coming years, a growing number of employees will transfer to this division. Additionally, a battery testing center will also be opened:

  In this laboratory for pilot projects, employees with additional training who previously worked at the testing facility for combustion engines will be testing new high-voltage energy storage modules for various electric vehicles starting in 2024.

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The newly anchored high-voltage battery competency in Neckarsulm will additionally benefit from synergies with the light-construction center.

- The right material in the right place in the right amount: The engineers at the Audi light-construction center develop for the whole group, not just the Audi brand, and in their work, they also find solutions for the requirements of models with alternative drives – for example, the battery housings for electric cars. The goal is to design a car body that is both as light and stable as possible while remaining cost-efficient. The body of the future will therefore consist of an intelligent mix of materials. The development of parts relies largely on simulation models to depict a digital twin of the real cars. This allows us to bring new technologies to mass production using a minimum number of test vehicles.

- Group Competence Center for Fuel Cell Technology: At the Fuel Cell Technology Competence Center, our development work focuses on readying technology for use in series production. The on-site Fuel Cell Technical Center develops, manufactures, and checks components on its own to optimize those properties relevant to their application, such as increasing efficiency, service life, and profitability.

Production and logistics
The great diversity of models produced at the site makes Neckarsulm one of the most complex plants in the Volkswagen Group. The Audi Supply Chain brings our customers’ needs to the plants, ensures supply with approximately 1,000 suppliers, and finally delivers the cars to the customers. In this way, it ensures that vehicle production and market supply are punctual, flexible, and efficient. What it takes is speed, transparency, reliability, and digital factory transformation. The Neckarsulm site is working continuously to optimize processes and develop innovative IT solutions that advance digitalization in production and logistics. The Böllinger Höfe also play a special role here.

The small-series production facility is used for a variety of innovative pilot projects. Through them, Audi is evaluating intelligent solutions for the fully connected and smart factory there, in order to improve and ultimately adopt them for large volume production in the Neckarsulm plant.

- Pearl chain principle: An algorithm calculates the best sequence for the assembly line from nearly two trillion possibilities six days in advance – the pearl chain principle. The algorithm uses information on ordered cars while taking into account the work for the employees in all work areas so that they can be utilized most effectively.
- Using data to optimize processes: An interdisciplinary project team within Audi Supply Chain at the Neckarsulm site is exploring how to use data to further optimize the management of a plant.

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To do this, Audi Supply Chain uses the largest possible data base, including data from suppliers and forwarding agents as well as congestion information. Data like this from the entire production value chain promotes the transparency of supply chains and best possible predictions.

- **Smart logistics**: Audi has been using driverless transport systems (DTS) for the automated transport of parts and vehicles in its production buildings since the beginning of 2017. The goal is a fully automated supply chain.

- **On the road to the fully connected factory**: In early 2021, Neckarsulm became the first automobile plant in the Volkswagen Group to use RFID technology (RFID = radio frequency identification) to identify vehicles throughout the entire production process. The site thus laid another key cornerstone for fully connected production. An enhanced RFID data medium, the “on metal tag,” is being used for the first time in the production of the fully electric Audi e-tron GT*.

- **Step by step to the smart factory**: The real-world laboratory in Böllinger Höfe and the digital ecosystem in Heilbronn provide Audi with ideal on-site conditions for advancing the transformation to a digital factory. Together with partners from science and the IT industry, Audi is testing digital solutions for the production of premium vehicles in a real manufacturing environment in Neckarsulm. The aim is to implement these solutions across the Group and introduce them in series production.

- **The Automotive Initiative 2025**: Audi is intensifying its smart factory efforts and working closely together with the Technical University of Munich and the Fraunhofer Institute for Industrial Engineering and Organization (IAO) at the educational campus in Heilbronn in the area of digitalization. Audi’s Automotive Initiative 2025 (AI25) aims to establish the leading network of expertise for digital factory transformation and innovation. Within it, the Neckarsulm site will play a pivotal role as a real-world laboratory for the digital transformation. Relevant IT solutions and ideas will be provided by technology partners Amazon Web Services (AWS) and SAP as well as the joint venture XL2, which Audi founded together with the consultancy firm Capgemini. The AI25 takes a holistic approach, giving equal consideration to technology, the people, and the organization as well as to the robustness and acceptance of AI solutions. This means that employee training plays a crucial role in digital factory transformation.

- **Edge Cloud 4 Production**: With the local server solution Edge Cloud 4 Production, Audi is initiating a paradigm shift in automation technology. After successful testing in the Audi Production Lab (P-Lab), three local servers will take over worker support in the Böllinger Höfe. If the server infrastructure continues to operate reliably, Audi wants to roll out this automation technology – the only one of its kind in the world – for series production throughout the Group.

- **Smart maintenance**: The “Predictive Maintenance” project in Neckarsulm makes upkeep on production facilities more efficient and reduces downtime in production. Maintenance experts collect and interpret associated data and can predict and even partially prevent wear on production equipment.

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• A pilot project is using **artificial intelligence** to control the quality of spot welds in high-volume production. The long-term vision is that in the future, the quality of welding processes can be controlled automatically and continuously optimized. Up until now, production staff have used ultrasound to manually monitor the quality of resistance spot welding (abbreviated WPS in German) processes on the basis of random analyses. As part of the “WPS Analytics” pilot project, a team of experts is using artificial intelligence (AI) to detect quality anomalies automatically and in real time.

• The Audi e-tron GT quattro* is the first model from the brand with the four rings for which **production was planned entirely without physical prototypes**. Multiple technical innovations made this possible, including three-dimensional building scans, **machine learning processes**, and the **use of virtual reality**. All assembly processes, such as procedures and employee actions, were tested and optimized down to the finest detail in virtual spaces. Virtual planning like this is now used across site boundaries, enabling digital, connected collaboration. 3D scans and planning in virtual spaces make processes more efficient and sustainable.

• **3D printing expertise**: The Audi e-tron GT* was the first vehicle for which 3D printing was an established part of pre-series production so that printed tools for assembly and pre-assembly were already in place at the start of production. And not just in place but tailored to employees’ needs. Moreover, in a pilot project at the Neckarsulm site, plastic waste is being used to make **3D-printed tools** for vehicle production. Packaging material is collected, sorted by type, and processed as the raw material for 3D printers. A team of experts then uses the material to 3D-print tailor-made tools for vehicle production.

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Audi as an attractive employer

Audi offers its employees a modern work environment, space for innovation, and diverse possibilities for individual development with attractive salaries and a high level of job security. Audi employees are actively helping to shape future topics such as electric mobility and digitalization. The corporate values of appreciation, openness, trust, and integrity are a mainstay of the company’s culture.

With targeted qualification and advanced training programs tailored to individual employees, Audi is preparing its workforce for tomorrow’s tasks.

- With its training program “Digital Shift – in Production and Logistics”, Audi is expanding IT expertise within the workforce at its Neckarsulm site. IT-minded employees and interested staff can use their potential and learn the ropes in strategic future jobs. The program will also serve as the blueprint for additional pilot projects.
- In the area of electromobility, employees have the opportunity to qualify for the **development of high-volt batteries**, in part through a specially designed program from Center for Advanced Studies at the university “Duale Hochschule Baden-Württemberg (DHBW CAS)” in Heilbronn. They also take various learning modules at the Audi Academy and can put the knowledge they put directly into practice.
- With the Center for Advanced Studies at the Baden-Wuerttemberg Cooperative State University (DHBW), the Neckarsulm site offers a qualification program for an **introduction to the development of electric drives**. The program supports the transformation of the workforce in engine development.
- In advanced training to become an electrical specialist in battery and vehicle technology, employees learn about the potential hazards of handling batteries and everything else they need to know for their daily work.
- In the Böllinger Höfe industrial park, Audi has set up an **advanced training center for electromobility, car IT, and automotive engineering**. In the direct vicinity of the Audi e-tron GT* production site, employees can use digital learning methods among others to develop their professional skills there.
- Additionally, the educational campus in Heilbronn affords employees at the Audi site in Neckarsulm numerous prospects to help advance the digital factory transformation and the transition to electromobility.

**Careers**

- AUDI AG is one of the largest employers in the region: 15,505 employees work at the Neckarsulm site (as of: 12/31/2022).

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• As a future-oriented company, AUDI AG offers many trainee positions in the region: In September 2021, 245 teenagers and young adults began their vocational training at Audi.
• In early October 2021, 21 junior staff began a program at the Baden-Wuerttemberg Cooperative State University (DHBW) and worked at Audi during their internship phase.
• On 31 December 2022, a total of 799 trainees and 53 dual students were employed at the Neckarsulm site.
• Hybrid working gives employees maximum freedom of choice without set in-office days.

Work and private life
Audi has various programs to help its employees to better balance work and family life.

• Mobile working offers employees a great deal of flexibility during the workday and makes it easier to combine work, family, and other areas of life.
• The company works with “FRÖBEL – Kindheit in Bewegung”, an association that offers all-day care in daycare centers in Neckarsulm and the vicinity. There were a total of 73 childcare places for Audi employees through the association and in the town of Bad Friedrichshall in 2022.
• There is also a flexible childcare program in cooperation with “FRÖBEL – Kindheit in Bewegung” in Bad Friedrichshall.
• Audi supports its employees in their individual life plans by offering extended breaks such as sabbaticals.

Work and care
Audi care time: Care-giving employees can take a leave of partial or complete absence for up to three years – with a guarantee of reinstatement for four more years.

• Event series on various topics are offered to employees, for instance on precautions/prevention, dementia, or self-care.
• In collaboration with Audi BKK and famPLUS GmbH, there are free programs for Audi employees: personalized assistance by telephone, counseling days, care dialog, and care lectures, all of them taking place on site.
• Audi is a dementia partner: The company works with the German Alzheimer Association and the Alzheimergesellschaft Ingolstadt e.V. (Alzheimer Society of Ingolstadt) to raise awareness of the topic and offer online training for employees.

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Engagement & environment

The Audi environmental program Mission:Zero

Mission:Zero is the Audi environmental program for consistently sustainable production. All activities and measures for reducing our ecological footprint at Audi sites worldwide in administration, production, and logistics are bundled here. The focus is on Audi’s key fields of activity in decarbonization, water use, resource efficiency, and biodiversity. One key objective is to achieve net carbon-neutral production locations by 2025.

Mission:Zero at the Neckarsulm site:

• **On the road to the carbon-neutral factory:** Since 2020, the entire Neckarsulm site has used green power exclusively. By 2025, Audi will transform Neckarsulm to a completely net carbon-neutral site.

• **Net carbon-neutral production of the Audi e-tron GT* at Böllinger Höfe:** Production of the e-tron GT* at the Böllinger Höfe is already net carbon neutral today. To achieve this, Audi uses green electricity and heat from renewable sources. An important milestone both for Audi and the Neckarsulm site. Even delivery of the Audi e-tron GT* to customers in Europe and the USA is net carbon neutral. CO₂ emissions that Audi cannot yet avoid by means of renewable energy sources are offset using so-called carbon credits from certified environmental projects.

• **Recycling:** Audi introduced the Aluminum Closed Loop at the Neckarsulm site back in 2017. The aluminum sheet offcuts that are produced in the press shop are sent directly back to the supplier companies, which then process and recycle them. Audi then reuses these reprocessed aluminum sheets in its production process. Additionally, in a current pilot project, polymer waste from A6 and A7 assembly is sorted, chopped up, and processed into special filaments. These filaments are then used by the 3D printing team to produce assembly tools for production.

• **Sustainable water use:** Audi wants to drastically reduce water use at the Neckarsulm site by 2025 through establishing a closed loop with the “Wastewater Special Purpose Association in Lower Sulmtal” and its neighboring sewage treatment facility, to which the site sends its wastewater.

• The Neckarsulm location is testing a pilot plant for a closed water cycle with the sewage treatment plant of the association “Unteres Sulmtal” adjacent to the plant. The project sees the wastewater being treated for production with the aid of filter systems and membranes; in the process, the water quality is constantly monitored. Additionally, a laboratory analyzes the water’s properties every two weeks.

• **Climate protection in Audi Logistics:** All of the rail traffic at the Neckarsulm site with DB Cargo is climate neutral. A train with an electric drive is used for shunting between the trailer yard and the plant grounds. At the initiative of Audi experts, a key carrier also uses trucks powered with biomethane for the road transport of its shipments.

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- **Conserving resources and avoiding waste**: Together with suppliers, the Audi Supply Chain is optimizing packaging at all locations in order to avoid waste and improve recycling. At the Neckarsulm site, for example, a trash bag producer uses a portion of the unavoidable polymer waste to produce bags that are then reused at the site itself.

- **Biodiversity**: In 2015, Audi joined the nationwide initiative in Germany “Biodiversity in Good Company” as part of its commitment to protecting biological diversity. Measures undertaken at the site include flower meadows, greening building facades and roofs, nesting boxes for birds and bats, beehives, an insect hotel, and green areas with domestic plants, trees, and shrubs.

### Involvement in the region

- As a **good corporate citizen**, Audi is part of society: As one of the largest employers in the Neckarsulm region, Audi strives to enhance the quality of life here and therefore regularly collaborates with the municipalities, local companies, associations, and educational and social institutions.

- **Ten years of promoting volunteer work at Audi**: Since 2012, Audi has bundled community service activities and supported the volunteer efforts of its employees through regular Audi Volunteer Days and team campaigns under the motto “**Audi Volunteers**”.

- **Audi supports volunteering**: On an internal volunteer platform, Audi employees can find numerous ongoing opportunities to get involved in their communities.

- **Audi supports various social institutions in the region**.

- As part of an inclusion program sponsored by Audi Neckarsulm and the Astrid Lindgren School in Neckarsulm, young persons with mental and physical disabilities were provided insights into professional life. The school students work at learning stations at the Audi plant in addition to their classroom work.

- **Audi has been working with partners in government, public transportation, and other companies to improve the transportation situation in the region as part of the Heilbronn-Neckarsulm Mobility Agreement.** Additionally, Audi has been operating a charging network for electric vehicles at its locations in Germany since 2018 and is expanding it further.

- **Audi has been operating a charging network for electric vehicles at its locations in Germany since 2018 and is expanding it further.** On the factory grounds in Neckarsulm and along the perimeter of the Neckarsulm and Heilbronn sites, there are now around 600 charging points; around 20 are quick-charging points. Three buffer storage units supply the charging points with power. Each comprises 198 battery modules with twelve cells each, which come from dismantled Audi test vehicles.

- **Audi Neckarsulm supports sports clubs and events in the region.** In early 2022, the company renewed its dedication to the region and extended its partnerships with the Bundesliga team TSG Hoffenheim, Sport-Union Neckarsulm, the Trollinger Marathon in Heilbronn, and the hep Triathlon Heilbronn.

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### History of the location

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1873</td>
<td>Christian Schmidt and Heinrich Stoll establish a workshop for the production of knitting machines in Riedlingen on the Danube.</td>
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<td>1880</td>
<td>The company relocates to Neckarsulm.</td>
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<td>1886</td>
<td>Bicycle production begins.</td>
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<td>1900</td>
<td>Motorcycle production begins.</td>
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<td>1906</td>
<td>Production of automobiles begins (“Original Neckarsulmer Motorwagen”).</td>
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<td>1928</td>
<td>Automobile production ends and the factory in Heilbronn is sold.</td>
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<td>1933</td>
<td>Ferdinand Porsche commissioned to build the NSU/Porsche Type 32, the VW Beetle’s predecessor.</td>
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<td>1945</td>
<td>The plant is partially destroyed in World War II; production gradually resumes beginning in mid-1945.</td>
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<tr>
<td>1955</td>
<td>NSU Werke AG is the world’s largest motorcycle plant.</td>
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<td>1958</td>
<td>Automobile production resumes with the NSU Prinz I to III.</td>
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<tr>
<td>1964</td>
<td>Production of the NSU/Wankel Spider, the world’s first production car with a rotary piston engine, begins.</td>
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<td>1966</td>
<td>Series production of the NSU Ro 80 begins; due to its futuristic design and rotary piston engine, it is voted “1968 Car of the Year”.</td>
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<td>1969</td>
<td>Merger with Auto Union GmbH Ingolstadt to become Audi NSU Auto Union AG; the majority shareholder is Volkswagen AG.</td>
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<td>1974/75</td>
<td>The site is threatened with closure during the oil crisis. In the legendary “March on Heilbronn,” employees fight successfully to save the plant.</td>
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<tr>
<td>1975</td>
<td>To better utilize production capacity, contract manufacturing of the Porsche 924 begins; the Porsche 944 follows shortly thereafter.</td>
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<tr>
<td>1982</td>
<td>The Audi 100 achieves a world-record coefficient of drag (Cd) value of 0.30.</td>
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<td>1985</td>
<td>Introduction of the fully galvanized car body in the Audi 100 and Audi 200. Company renamed AUDI AG and headquarters moved to Ingolstadt.</td>
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<tr>
<td>1988</td>
<td>AUDI AG enters the full-size car class with the Audi V8.</td>
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<td>1989</td>
<td>Introduction of turbocharged diesel engine with direct fuel injection in a passenger vehicle.</td>
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<td>1990</td>
<td>First DTM victory for Audi – with an Audi V8 quattro piloted by Hans-Joachim Stuck.</td>
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<td>1994</td>
<td>Start of production of the Audi A8, the first series-produced vehicle in the world with a completely aluminum body (ASF – Audi Space Frame).</td>
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<tr>
<td>2000</td>
<td>Production of the Audi A2, the first aluminum, large-volume production car, begins.</td>
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2001  Victory in Le Mans with the newly developed FSI direct fuel injection.
2005  Audi Forum Neckarsulm opens.
2006  German premiere of the Audi R8 sports car.  
First victory in the 24 Hours of Le Mans with a diesel engine developed in Neckarsulm.
2007  Establishment of the production turntable between the Ingolstadt and Neckarsulm plants with the start of production of the Audi A4 Sedan.
2008  Inauguration of the new Audi toolmaking shop.
2012  Inauguration of the Technical Center for Fiber-Reinforced Polymers and the new Engine Test Center.
2013  Audi Neckarsulm receives the J. D. Power award as “Best Production Plant in Europe”.
2014  Inauguration of Audi Böllinger Höfe (Logistics Center and R8 production).
2015  Audi Forum Neckarsulm celebrates its tenth anniversary.
2016  New Audi A8 production buildings.
2017  Opening of the Fuel Cell Competence Center.
2018  Inauguration of the Technical Center for the Testing of Aluminum Materials.
2019  Establishment of an MEA Technical Center (functional layer systems) for fuel cell development. 
Start of the cross-site Mission:Zero environmental program with measures for decarbonization, sustainable water use, resource efficiency, and biodiversity.
2020  Start of production of the fully electric Audi e-tron GT quattro*.
Establishment of a Competence Center for high-voltage batteries.
2022  Optimizing production for electromobility: Modernization of existing buildings, groundbreaking ceremony for new paint shop.

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The Audi Group is one of the most successful manufacturers of automobiles and motorcycles in the premium and luxury segment. The brands Audi, Bentley, Lamborghini, and Ducati produce at 22 locations in 13 countries. Audi and its partners are present in more than 100 markets worldwide.

In 2022, the Audi Group delivered 1.61 million Audi vehicles, 15,174 Bentley vehicles, 9,233 Lamborghini vehicles, and 61,562 Ducati motorcycles to customers. In the 2022 fiscal year, AUDI Group achieved a total revenue of €61.8 billion and an operating profit of €7.6 billion. Worldwide, more than 87,000 people worked for the Audi Group in 2022, over 54,000 of them at AUDI AG in Germany. With its attractive brands, new models, innovative mobility offerings and groundbreaking services, the group is systematically pursuing its path toward becoming a provider of sustainable, individual, premium mobility.
Fuel/electric power consumption and emissions values** of the models named above

**Audi e-tron GT quattro**
Electricity consumption combined in kWh/100 km (62.1 mi): 21.8–19.9 (WLTP); 19.6–18.8 (NEDC); CO\textsubscript{2} emissions combined in g/km: 0

**Audi A5 Cabriolet**
Combined fuel consumption in l/100 km: 7.3–4.2 (32.2–56.0 US mpg); combined CO\textsubscript{2} emissions in g/km: 168–112 (270.7–180.2 g/mi)

**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\textsubscript{2} emissions. Since September 1, 2018, the WLTP has gradually replaced the New European Driving Cycle (NEDC). Due to the more realistic test conditions, the consumption and CO\textsubscript{2} emission values measured are in many cases higher than the values measured according to the NEDC. Additional information about the differences between WLTP and NEDC is available at 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 electric power consumption, CO\textsubscript{2} emissions and performance figures.

Further information on official fuel consumption figures and the official specific CO\textsubscript{2} emissions of new passenger cars can be found in the “Guide on the fuel economy, CO\textsubscript{2} 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).