

## Audi at the Ingolstadt Site

### Facts & Figures (as of 12/31/2023)

- Founded: 1949
- Production (2023): 403,874 cars
- Plant manager: Siegfried Schmidtner
- Employees: approx. 40,000
- Site footprint: 2,737,500 square meters
- Good to know: the largest production facility in the Audi Group

### Current model series at location

Audi Q2, Audi A3, Audi A4, Audi A5, Audi Q6 e-tron\*, Audi SQ6 e-tron\*

### Profile of location

**Audi has built cars at the Ingolstadt site for 75 years.** This is where AUDI AG has its headquarters; around 40,000 employees (as of December 31, 2023) work in Ingolstadt to achieve “Vorsprung durch Technik”.

From the initial idea to the finished automobile, the entire production process for the Audi Q2, Audi A3, Audi A4, Audi A5, and Audi Q6 e-tron takes place at the Ingolstadt plant. The Audi Ingolstadt location continues to develop into a networked digital factory for the electrified future. Modern production systems and high-tech solutions enable highly efficient, sustainable manufacturing. With the start of production for the Audi Q6 e-tron, a fully electric model is now rolling off the line in Ingolstadt for the first time. By making the assembly lines more flexible across the board and thanks to a battery assembly facility located nearby, the location is well prepared for the gradual shift to electric mobility and production of additional fully electric models.

The **largest production facility in the Audi Group** is the economic engine of the region and, as the primary plant and a high-tech site, it brings five locations together in one think tank:

- Audi Ingolstadt factory (headquarters with Technical Development.)
- Münchsmünster manufacturing site (module/system production and press shop.)
- Audi Neuburg high-tech area
  - Headquarters of Audi Sport racing technologies and Audi Formula Racing GmbH

***The equipment, data and prices specified in this document refer to the model range offered in Germany. Subject to change without notice; errors and omissions excepted.***

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

- Development site for the entire drive unit (power unit) for Audi's Formula 1 project, with new extension
- The Audi driving experience center
- Technical Development divisions with a focus on driver assistance systems and integrated safety (FAS/IS)
- Home of Ducati Motor Deutschland GmbH
- Proving grounds Neustadt a. d. D. (high-security area of Technical Development)
- incampus technology park

The **Audi Forum Ingolstadt** attracts people from the region and around the world, as well as customers who come to pick up their new cars there.

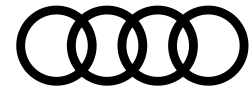
- It combines production, tradition, shopping, a cinema, dining facilities, driving enjoyment, exhibitions, and conference rooms. Audi delivers cars at the customer center.
- The Audi Forum Ingolstadt offers events and exhibitions as well as guided physical and digital tours of the plant and the Audi museum mobile.

**incampus technology park:** incampus is a high-tech area to the southeast of Ingolstadt. Audi and its partners are working on the future of mobility on this former refinery site. The site includes the Vehicle Safety Center, an Audi IT Center, and offices for Volkswagen's software company CARIAD, among other things. The remediation of the heavily contaminated site was a collaboration between the public sector and Audi.

- Among the features of the Audi Vehicle Safety Center on incampus are run-up tracks with a total length of 250 meters, a mobile 100-ton crash block, and the ability to collide two vehicles at a 90-degree angle.
- The IT Center supports AUDI AG's future-oriented projects with ultra-modern hardware and software. The nearly 10,000 square meters of floor space house around 800 servers and data cabinets.
- The Energy Control Center provides power and controls the modular energy concept for incampus, based on three cornerstones: a water-based pipeline system, reversible heat pumps, and a cross-energy concept. The buildings on incampus are heated with waste heat from other buildings, such as the IT Center, through the pipeline network and reversible heat pumps. This conserves energy and upcycles energy that would otherwise go to waste unused.
- CARIAD, which pools the Volkswagen Group's software competencies, has had a Competence Center at incampus since late 2020. The technology park offers IT experts from the software company an attractive environment for flexible work.
- The city of Ingolstadt and Audi have used cutting-edge technology to revitalize and remediate an industrial wasteland, a former refinery site, without sealing additional areas.
- This renaturalization project is one of Germany's largest and an unprecedented environmental project in Bavaria.

**Smart city and mobility of the future:** Audi is planning for the future and has joined up with the city of Ingolstadt and other partners to work on innovations in mobility for the Ingolstadt region. The spectrum ranges from measures for appealing cycling options and public transport initiatives to the use of 5G technology.

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Collaborating with partners like CARIAD and the Technische Hochschule Ingolstadt (Ingolstadt Technical College) on the IN2Lab project is producing a system for safeguarding automated driving functions. IN2Lab is playing a pivotal role in constructing the digital testing area for automated and networked driving in Ingolstadt. The test track links incampus with the Ingolstadt South highway junction and leads seamlessly to the Digital Testing Area Autobahn on the A9. Networked and automated driving functions are tested there on the section between Nuremberg and Munich.

Another exemplary project is Audi's traffic light information service, which is helping to improve traffic flow. Thanks to digital traffic infrastructure, Ingolstadt is the first city in Europe where production models have been networked with traffic lights. The data collected in the process will form the basis for further projects. For example, traffic light data is being supplemented with sensor data and, with the help of artificial intelligence, used to help optimize traffic flow on another test field in the Ingolstadt area.

Audi was also involved in a virtual test field for networked, autonomous driving in urban traffic in Ingolstadt. Under the project name SAVeNoW, the project partners investigated aspects of traffic, such as efficiency and safety, while also testing the benefits of autonomous driving functions in a realistic model of the city of Ingolstadt over 34 months. The resulting simulations and sensor data are used to analyze and evaluate innovative ideas for traffic planning. Audi is also involved in initiatives to optimize bus and rail traffic. There has been a train station on the factory grounds since the Ingolstadt Audi stop opened in 2019. The joint project of the Free State of Bavaria, the city of Ingolstadt, Deutsche Bahn, and AUDI AG is sustainably improving mobility solutions. Audi employees living in the vicinity take an environmentally friendly train ride to work without traffic jams or searching for parking spots.

With a specially developed digital tool, Audi is supporting a project to make local public transport in the region even more attractive. The so-called residential cluster records commuter flows at Audi and is also available to the project partners. The project leverages these values, which, together with supplemented mobility data, helps to expand local public transport services in targeted ways.

Audi has also been advancing future-oriented mobility at its sites in Germany since 2018, thanks to a network with charging infrastructure for electric vehicles. Building on the first charging points created in 2018, the company is also continuing to expand this network at the Ingolstadt location. Audi now operates more than 3,100 charging points at its German locations.

This includes internal charging points (e.g., for research vehicles) and charging points for employees and visitors. At the Ingolstadt location, external charging points are available in AUDI AG parking garages and near the Audi Forum Ingolstadt.

Audi is also promoting additional charging facilities in Ingolstadt. For example, the Ingolstadt utility company plans to build a quick-charging park on the incampus site.

### **Münchsmünster**

Audi efficiently packs high technology into a 54-hectare site in Münchsmünster in the Center of Excellence for high-tech suspension, aluminum structural, and pressed parts. This site has been using innovative production

methods since 2013 to produce form-hardened sheet metal items and aluminum die castings for lightweight construction. The module/system assembly operations and press shop in Münchsmünster are an important aspect of automotive manufacturing in Ingolstadt. More than 700 employees work there in three shifts. In 2023, approximately 17 million automotive parts were manufactured.

### **Neuburg**

Audi Neuburg is home to Audi Sport racing technologies and, since 2022, to Audi Formula Racing GmbH. The organization is developing the drive unit for Audi's Formula 1 project in a new 3,000-square-meter building at the Audi Neuburg location. The building primarily houses additional test stands for testing the drive unit. The Energy Control Center was also expanded to supply the new test building with power. Those parts of the Ingolstadt location's Technical Development team focusing on driver assistance systems and integrated safety, are also located at Audi in Neuburg. The high-tech area, which opened in 2014, is also home to the Audi driving experience center, which offers various training and driving experience programs. The headquarters of Ducati Motor Deutschland GmbH, which has also been located there since 2021, manages the brand's sales activities and dealerships in Germany.

## **Technical Development**

The **Technical Development (TE)** division of AUDI AG is headquartered in Ingolstadt. Around 10,000 people work here on innovations for the cars of the future.

Employees in areas ranging from design to engineering shape the entire product creation process—from design, new vehicle concepts, engine and transmission development, powertrain electrification, electrical and electronic development, and car bodies and suspension systems. Interdisciplinary collaboration enables customer-focused solutions for strategic fields of innovation, such as digitalization, sustainable drive types, and premium mobility experiences.

Technical Development works on software development hand-in-hand with CARIAD, the Volkswagen Group's software company.

- **Networked development through systems engineering:** New forms of collaboration across different company divisions are creating the conditions for mastering highly complex technical systems. The focus is on production requirements and functions.
- **The Design Center is a digital design factory.** Audi has developed a new, innovative design process that combines the advantages of cutting-edge 3D visualization with the strengths of traditional handcrafted modeling. The teams work here in an area of approximately 37,180 square meters.
- **The Aggregate Center,** a workplace for engineers, houses a variety of test equipment and measuring technology. All the drive types are developed and thoroughly tested here.
- **The High-voltage battery project house** was opened in 2012 as a Center of Excellence integrating Technical Development, Production, and partner companies.

- **Powered up at the Electronics Center:** All electrical devices, cables, sensors, and control units are subjected to comprehensive tests at an early stage here to make in-vehicle digitalization a reality.
- **Design check for the virtual Audi “to go”:** In the virtual reality (VR) studio, development teams analyze realistic vehicle models that are true to detail before they are made.
- **The Lighting Assistance Center** is a 120-meter-long light tunnel that cars can drive through. This is where Audi’s pioneering lighting technology is created, with innovations such as matrix LED headlights and laser light.
- **Wind-resistance at the wind tunnel center** with the aeroacoustics, thermal, and climate wind tunnels: Experts work on optimal aerodynamics at speeds of up to 300 kilometers per hour.

### Mobility of the future

- The transformation to electric mobility and digitalization demands new key competencies, which Audi is developing in its workforce.
- A primary focus is promoting the next generation of skilled workers. As a future-oriented company, AUDI AG continuously adapts its vocational training and dual study programs to reflect the transformation and prepare for strategic future jobs. More than 1,280 vocational trainees and 160 dual students work at Audi in Ingolstadt on the future of mobility. In the fall of 2023, 372 young people began their vocational training, and 82 students started a dual bachelor’s or master’s degree program at the Ingolstadt site. Audi is focusing on targeted qualification and advanced training programs for its employees to promote lifelong learning as part of its training-to-retirement approach to the transformation.
- Over the past two years, the company has invested around 250 million euros in the training and development of its employees.

### Working at Audi

Audi offers a wide range of attractive working conditions, from a modern culture of cooperation, diverse possibilities for individual development, and space for innovations to health promotion measures for employees with attractive salaries and a high level of job security.

### Work-life balance

- Audi has various programs to help employees balance work and family life better.
- For example, as the largest employer at its headquarters in Ingolstadt, AUDI AG offers childcare slots for employees’ children in partnered daycare centers, holiday childcare during the summer holidays, and shorter breaks throughout the year, in addition to flexible short-term care for off-peak times and last-minute childcare needs.



- The company also supports employees who care for family members. For example, Audi works with an AWO care facility in Ingolstadt that takes over support for Audi employees' family members who need care, for instance, during vacation or periods of illness (prevention care). In collaboration with Audi BKK and famPLUS GmbH, there are free programs for Audi employees, including personalized assistance by telephone, online counseling days, care dialog, and care lectures. Audi also acts as a dementia partner, helping to raise awareness and offer online training for employees in cooperation with the German Alzheimer Association and Alzheimer Gesellschaft e.V. (Alzheimer Society of Ingolstadt).
- For more information on how Audi, as an employer, puts people at the center, please visit the [Audi MediaCenter](#).

## Environment, Social, Governance

### **Audi environmental program Mission:Zero encourages more environmental protection**

Mission:Zero is Audi's environmental program for consistently sustainable production. It bundles all the company's activities and measures for reducing the ecological footprint at Audi sites worldwide in Production and Logistics. The focus is on Audi's key challenges of decarbonization, sustainable water use, resource efficiency, and biodiversity protection. One key objective is to achieve net carbon-neutral<sup>1</sup> production locations by 2025.

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<sup>1</sup>Audi understands net-zero carbon emissions to mean a situation in which, after other possible reduction measures have been exhausted, the company offsets the carbon emitted by Audi's products or activities and/or the carbon emissions that currently cannot be avoided in the supply chain, manufacturing, and recycling of Audi vehicles through voluntary offsetting projects carried out worldwide. In this context, carbon emissions generated during a vehicle's utilization stage, i.e. from the moment it is delivered to the customer, are not taken into account.

**Net carbon-neutral production site:** After Brussels (Belgium, 2018) and Győr (Hungary, 2020), Audi Ingolstadt is the third Audi plant to manufacture under net carbon-neutral conditions since the beginning of 2024. Audi has been producing cars in Ingolstadt exclusively with green electricity since 2012. In addition, solar panels have been installed there on an area of approximately 23,000 square meters. As another measure, nearby industrial facilities supply the location with net carbon-neutral waste heat, for example, from a neighboring refinery and the municipal waste recycling plant. This allows the site to meet almost all its energy needs from renewable sources. Thanks to its energy management, the location was also able to save more than 34,800 megawatt hours of energy and avoid over 4,560 tons of carbon emissions in 2023. Any emissions that Audi cannot yet avoid (a maximum of ten percent of the original carbon emissions) are offset by purchasing carbon credits that are certified according to the highest quality standards, such as The Gold Standard. Net carbon neutrality was certified by independent experts.

Audi is also focusing on consistently reducing emissions outside the factory gates. As early as 2010, Audi was the first company to use trains that run on green power. The company has been operating carbon-free rail logistics in Germany with DB Cargo.

In addition, two modern plug-in hybrid locomotives are used at the Ingolstadt site for shunting work. The company is also continuously working to increase the proportion of rail traffic, for example, through the



combined use of different rail and road carriers and alternative drive technologies for road shipments.

- **Water use:** Since 2019, Audi has operated a process water supply center with a membrane bioreactor in Ingolstadt to use water even more efficiently. With the previous treatment system, roughly half of the wastewater generated at the site can be fed into a circuit, where it is treated and processed for reuse. Audi also collects rainwater at the site in underground retention basins for use as non-potable water.
- **Resource efficiency:** Audi has operated a highly environmentally sound paint shop in Ingolstadt since 2016. Air circulation, dry separation of the paint particles, and exhaust air treatment significantly reduce thermal energy and water consumption and CO<sub>2</sub> emissions compared to conventional systems. Emissions of volatile organic compounds (VOCs) are reduced by over 90 percent.
- **Land recycling:** IN-Campus GmbH, a joint venture between the city of Ingolstadt and AUDI AG, has remediated a 75-hectare area of industrial wasteland in the east of Ingolstadt, thus creating the conditions for the incampus technology park without consuming new land. Fifteen hectares of the total area have been designated as a compensation area for nature and landscape; a near-natural alluvial forest with fallow grassland and willow trees growing there is an ecologically valuable transition between the high-tech area and nature.
- **Biodiversity:** As a member of the “Biodiversity in Good Company” initiative, Audi is involved in protecting biological diversity with projects at all Audi locations. The open spaces at the manufacturing site in Münchsmünster, designed to remain close to their natural form, are the most significant measure at the Ingolstadt location.  
A habitat for numerous animal and plant species has been created on around 17 hectares of the factory grounds.

### Social engagement

Living responsibly is a deeply rooted principle in Audi’s strategy. As the largest employer in the Ingolstadt region, the Audi Group wants to improve the quality of life locally and regularly works with the city, local businesses, associations, educational institutions, and social services providers.

- **“Audi Volunteers”:** Audi bundles social activities together under this motto and supports employees’ volunteer engagement.
- **Focus on education and research:** Audi is committed to Ingolstadt and the region, including scientific cooperation and programs for schoolchildren, including Jugend forscht (a German youth science competition), Girls’ Day, and Digi Camp.
- **Shaping mobility:** Audi is working with the Ingolstadt public transit company (VGI) and Deutsche Bahn, among others, to reduce traffic around the site. The people living in the region also benefit from the expansion of the bus network and the new “Ingolstadt Audi” train stop right by the plant premises.
- **The Audi experience in sports:** Audi is also a reliable supporter of sports in the region. The company maintains partnerships with the ERC Ingolstadt (ice hockey), FC Ingolstadt 04 and VfB Eichstätt (soccer), and the Ingolstadt Dukes (American football). Audi attaches particular value to promoting youth and



young talent, for example through the Audi Schanzer Football Academy and the Audi Sportakademie. Audi also supports many other regional clubs and sporting events, such as the Ingolstadt Half Marathon and the Audi Triathlon Ingolstadt. The company has been the latter’s main sponsor since its inception and the title sponsor since 2022.

- **The Audi experience in culture:** Audi has been sponsoring cultural activities for over 60 years. The Audi Philharmonic Wind Orchestra, a factory orchestra that began as an employee initiative, was the starting point for the company’s cultural involvement. The company bundles a diverse cultural program under the heading Audi ArtExperience. Concert highlights in the region include the Audi Summer Concerts, the Audi Christmas Concert, jazz concerts at the Audi Forum Ingolstadt, and performances by the Audi Young Persons’ Choral Academy.

AUDI AG is also a partner and sponsor of the Georgian Chamber Orchestra Ingolstadt and the Ingolstadt Museum and Foundation for Concrete Art and Design. Audi is also involved in other ways, such as the season partnership with the Ingolstadt Municipal Theater and collaborations with the international short film festival 20minmax, the Ingolstädter Jazztage jazz festival, and the Taktraumfestival music festival.

## History

The heart of the Audi Group beats at the Ingolstadt site. When the Auto Union GmbH was founded in Ingolstadt more than 70 years ago, it opened a new chapter in the history of the automobile manufacturer, which was previously based in the German state of Saxony. The company began producing spare parts, motorcycles, and DKW vehicles in the former Ingolstadt Fort buildings.

1945	Founding of Zentraldepot für Auto Union Ersatzteile Ingolstadt GmbH in Ingolstadt, at Schrankenstrasse 3, on December 3
1946	Start of spare parts production
1948	Removal of the “old” Auto Union from commercial register in Chemnitz; start of development of a delivery truck in Ingolstadt
1949	Founding of Auto Union GmbH as a production company on September 3 in Ingolstadt; start of production of the DKW Schnellaster van and DKW RT 125 W motorcycle
1954	Inauguration of the new motorcycle plant in Ingolstadt
1958	On April 24, acquisition of majority share in Auto Union by Daimler-Benz AG; wholly owned subsidiary at the end of 1964; cornerstone laid for new automobile factory in Ingolstadt; end of





	motorcycle production
1959	First DKW Junior from the new plant in Ingolstadt
1962	In June 1962, sale of facilities in Düsseldorf to Daimler-Benz AG; vehicle production primarily in Ingolstadt
1964	Acquisition of majority share in Auto Union by Volkswagenwerk AG (wholly owned VW subsidiary since late 1966)
1965	The first post-war Audi built in Ingolstadt; successive discontinuation of production of DKW models
1969	Merger of Auto Union GmbH and NSU Motorenwerke AG: Audi NSU Auto Union AG, headquartered in Neckarsulm
1980	Start of production of the Audi quattro at the Ingolstadt site
1985	Company renamed AUDI AG with headquarters in Ingolstadt; products and company have borne the same name ever since
2009	Centenary of the Audi brand, 60th anniversary of the Ingolstadt site
2013	Opening of the manufacturing site in Münchsmünster (module and system production and Münchsmünster press shop) near Ingolstadt
2014	Opening of Audi Neuburg: Audi driving experience and Competence Center Motorsport/Audi Sport, Audi Sport customer racing
2015	Opening of Audi Akademie in downtown Ingolstadt
2016	Land acquired for future incampus technology park; new top coat paint shop
2017	New Design Center; new production and logistics hall at the Logistics Center in Ingolstadt
2018	Remediation of incampus site begins
2019	Cornerstone laid for incampus technology park; opening of Ingolstadt Audi train stop
2020	First tenants move into offices at incampus technology park
2021	Conclusion of structural soil remediation on the incampus site; completion of Energy Control Center and functional building on incampus
2022	Start of regular operations at the Energy Control Center and the IT Center on incampus; construction of extensions at Audi Neuburg location for Audi's Formula 1 project begins



2023	Start of production for the Audi Q6 e-tron as first fully electric model at the Ingolstadt location; inauguration of incampus and start of operations at new Audi Vehicle Safety Center
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### Communication Production Sites

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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 21 locations in 12 countries. Audi and its partners are present in more than 100 markets worldwide.

In 2023, the Audi Group delivered 1.9 million Audi vehicles, 13,560 Bentley vehicles, 10,112 Lamborghini vehicles, and 58,224 Ducati motorcycles to customers. In the 2023 fiscal year, Audi Group achieved a total revenue of €69.9 billion and an operating profit of €6.3 billion. Worldwide, an annual average of more than 87,000 people worked for the Audi Group in 2023, more than 53,000 of them at AUDI AG in Germany. With its attractive brands and numerous new models, the group is systematically pursuing its path toward becoming a provider of sustainable, fully networked premium mobility.

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**Fuel/electric power consumption and emissions values of the models named above:**

**Audi Q6 e-tron quattro**

Combined power consumption in kWh/100 km: 19.4 -17.0 (WLTP);

CO<sub>2</sub> emissions combined in g/km: 0; CO<sub>2</sub> class A

**Audi SQ6 e-tron**

Combined power consumption in kWh/100 km: 18.4 -17.5 (WLTP);

CO<sub>2</sub> emissions combined in g/km: 0; CO<sub>2</sub> class A