



Media information  
1 December 2021

### **Endurance test on ice and snow: The BMW i7 undergoes driving dynamics testing at the polar circle.**

Prototypes of the world's first purely electrically powered luxury sedan complete final testing of drive and suspension systems at the BMW Group winter test centre in Arjeplog, Sweden.

**Munich.** With the consistent expansion of its range to further vehicle segments, the BMW Group is pushing ahead with the transformation to electric mobility. During the forthcoming year, the Munich-based premium automobile manufacturer will already present the world's first all-electric luxury sedan – the BMW i7 (power consumption combined: 22.5 – 19.5 kWh/100 km according to WLTP; CO<sub>2</sub> emissions: 0 g/km; prognosis based on the vehicle's current level of development). Within the framework of its series development process, the BMW i7 is currently undergoing driving dynamics testing on the premises of the BMW Group winter test centre in Arjeplog, Sweden. There, just a few kilometres away from the Arctic Circle, test engineers find the frozen surfaces and snow-covered roads offering the ideal preconditions for the integrated application of all drive and suspension systems. With the test programme held in the biting cold, they pave the way to a new interpretation of luxury driving pleasure. For the first time, it will be possible to experience a maximum in characteristic BMW dynamics, comfort and supremacy in the luxury class with absolutely zero local emissions.

The suspension components, steering and braking systems as well as driving dynamics and vehicle stability systems developed for the future generation of the BMW 7 Series are designed to raise the balance between sportiness and ride comfort so typical of the brand's luxury sedans to the next level. This also includes performance-oriented tuning of the wheel suspension, springs, dampers and various regulating systems to match the various different drive types. They all undergo intensive testing in Arjeplog under extreme climate conditions.

In Lapland's winter landscape, the test engineers find the perfect preconditions for this. During test drives around the snow-covered roads around Arjeplog, they are able to test and optimise all functions under extremely challenging conditions in order to achieve an absolutely harmonious and BMW-typical driving experience. Moreover, they make use of test surfaces on frozen lakes with their low road friction coefficient in order to achieve particularly fine tuning of suspension control systems. The steering application undergoes meticulous tuning as do the numerous functions of the Dynamic Stability Control system (DSC) and the accurately regulated interaction between friction brake and deceleration by means of energy recuperation.



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The winter programme also focuses in particular on the components of the all-electric drive system. The BMW i7's electric drive, high-voltage battery, power electronics and charging technology all originate from the fifth generation of BMW eDrive technology, which already provides for sustainable driving pleasure in the BMW iX. Above all, it is the motor, the battery and the temperature control system of the BMW i7 that prove their high level of maturity in extreme sub-zero temperatures in the north of Sweden.

With the BMW i7, the brand's current model offensive in the luxury segment is being continued in a particularly progressive way. For the first time, it is possible to experience a luxury sedan that is characterised by elegance, ride comfort and supremacy without restriction and in conjunction with a purely electric drive system. The BMW i7 is based on the same vehicle concept as all further model variants of the BMW 7 Series. This integrated development also guarantees locally emission-free driving with the characteristic combination of both sporty and comfort-oriented handling properties along with the exclusive spaciousness of a BMW luxury sedan.

The fuel consumption, CO<sub>2</sub> emissions, electric power consumption and electric range figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. They refer to vehicles in the German market. Where a range is shown, NEDC figures consider the different sizes of the selected wheels/tyres, while WLTP figures take into account the impact of any optional extras.

All values were calculated based on the new WLTP test cycle. Any NEDC values that are shown have been translated into equivalent NEDC measurements where appropriate. WLTP values are taken as the basis for determining vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions as well as eligibility for any applicable vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures can also be found at [www.bmw.de/wltp](http://www.bmw.de/wltp).

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.



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If you have any questions, please contact:

### Corporate Communications

Bernhard Santer, Product Communications BMW Automobile

Telephone: +49-89-382-24360

E-Mail: [bernhard.santer@bmwgroup.com](mailto:bernhard.santer@bmwgroup.com)

Ingo Wirth, Head of Product & Brand Communications BMW

Telephone: +49-89-382-25814

E-Mail: [Ingo.Wirth@bmw.de](mailto:Ingo.Wirth@bmw.de)

Internet: [www.press.bmwgroup.com](http://www.press.bmwgroup.com)

E-Mail: [presse@bmw.de](mailto:presse@bmw.de)

### The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises 31 production and assembly facilities in 15 countries; the company has a global sales network in more than 140 countries.

In 2020, the BMW Group sold over 2.3 million passenger vehicles and more than 169,000 motorcycles worldwide. The profit before tax in the financial year 2020 was € 5.222 billion on revenues amounting to € 98.990 billion. As of 31 December 2020, the BMW Group had a workforce of 120,726 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company set the course for the future at an early stage and consistently makes sustainability and efficient resource management central to its strategic direction, from the supply chain through production to the end of the use phase of all products.

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