Batteries: Second life cycle in stationary energy storage systems

- **Second-hand batteries from ŠKODA iV vehicles are used in energy storage systems; flexible use of the electricity generated, e.g. at ŠKODA dealerships**
- **Extending the service life to up to 15 years significantly reduces CO_2 footprint**
- **Production of MEB battery systems at ŠKODA AUTO headquarters in Mladá Boleslav**

Mladá Boleslav, 19 September 2022 – ŠKODA AUTO has come up with a clever idea to extend the service life of batteries from electric vehicles and reduce their carbon footprint. In a second life cycle, the batteries are installed in stationary energy storage systems. ŠKODA dealers can use these energy storage systems, for example, as charging stations and for lighting and air conditioning in showrooms and workshops. The company manufactures battery systems for MEB-based models at its main plant in Mladá Boleslav, thus ensuring short delivery distances.

Batteries from the all-electric ENYAQ iV family, as well as the plug-in hybrids SUPERB iV, OCTAVIA iV and OCTAVIA RS iV, enter a second life cycle after being used in the car; they supply ŠKODA dealers with sustainably produced electricity in stationary energy storage units, which can be used for charging stations, lighting and air conditioning in showrooms and workshops, among other applications. The capacity of the stationary storage units is up to 300 kWh so fast charging stations with a transmission power of up to 150 kW can also be supplied. In addition, the systems can store surplus green electricity that is generated, for example, by a dealer's photovoltaic system. This electricity is then available at any time, regardless of the weather or the current load of the local power grid. Each stationary energy storage unit is scalable, and the batteries can be replaced in a few simple steps if necessary. More than 4,000 of these sustainable storage units will be built in the coming years.

Service life of batteries extended to up to 15 years
The results of a pilot project in Prague revealed that the capacity of the batteries in stationary systems drops by only about two per cent per year. The useful life of the batteries thus increases to up to 15 years while the CO_2 footprint improves significantly. Once the second life cycle in the storage stations has ended, ŠKODA AUTO feeds the batteries into a controlled recycling process. The recovered raw materials are then used to produce new batteries.

Battery production at the main plant in Mladá Boleslav
ŠKODA AUTO has been manufacturing battery systems for vehicles based on the Volkswagen Group's Modular Electrification Toolkit (MEB) in Mladá Boleslav since May 2022. The current capacity of more than 250,000 units a year is set to increase to 380,000 units by the end of 2023. They are installed in ENYAQ iV models on an assembly line in the adjacent hall. The batteries are also used in Volkswagen, Audi and SEAT vehicles. By producing this key component at the Mladá Boleslav site, the company has reached an important milestone in its transformation towards electromobility.

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ŠKODA AUTO

- is successfully steering through the new decade with the NEXT LEVEL – ŠKODA STRATEGY 2030.
- aims to be one of the five best-selling brands in Europe by 2030 with an attractive line-up in the entry-level segments and additional e-models.
- is emerging as the leading European brand in important growth markets such as India and North Africa.
- currently offers its customers twelve passenger-car series: the FABIA, RAPID, SCALA, OCTAVIA and SUPERB as well as the KAMIQ, KAROQ, KODIAQ, ENYAQ iV, ENYAQ COUPÉ iV, SLAVIA and KUSHAQ.
- delivered over 870,000 vehicles to customers around the world in 2021.
- has been a member of the Volkswagen Group for 30 years. The Volkswagen Group is one of the most successful vehicle manufacturers in the world.
- independently manufactures and develops not only vehicles but also components such as engines and transmissions in association with the Group.
- operates at three sites in the Czech Republic; has additional production capacities in China, Russia, Slovakia and India primarily through Group partnerships, as well as in Ukraine with a local partner.
- employs 45,000 people globally and is active in over 100 markets.