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BASF and Tenova Advanced Technologies enter into a joint development agreement for efficient recycling of lithium-ion batteries

Ludwigshafen, Germany and Yokneam, Israel – February 22, 2023 - **BASF**, a leading battery materials producer, has entered into a **long-term collaboration agreement** with **Tenova Advanced Technologies** (TAT) of Yokneam, Israel, for its **battery recycling prototype plant in Schwarzheide, Germany**.

Both companies agreed to jointly optimize the **hydrometallurgical recycling process**, leveraging TAT's novel process for the recovery and production of lithium, which includes lithium solvent extraction (LiSX™) and lithium electrolysis (LiEL™).

The process development activities include pilot campaigns at TAT's R&D center and the design and fabrication of a prototype plant to be operated at BASF's facilities in Schwarzheide, Germany. Startup of the prototype plant is targeted for later this year.

Irad Rekem, TAT Managing Director, stated: "*We are proud to bring our expertise and innovative technologies to this collaborative effort with BASF to recycle end-of-life batteries. This will be a recycling process that will demonstrate efficient metal recovery and production of lithium salts based on solvent extraction*."

"*Using recycled metals for production of new battery materials can reduce the CO_2 emission impact of batteries by about 25 percent compared to the use of virgin metals,*" said **Daniel Schönfelder**, Senior Vice President Battery Base Metals and Recycling at BASF. "*We will close the loop from end-of-life batteries to new battery production and will ensure an exceptionally low CO_2 footprint for key metals needed to meet the growing demand for eMobility. By collaborating with Tenova we can assess new approaches in further optimizing the recycling process.*"

TAT is part of **Tenova**, a global company specialized in **sustainable solutions for the green transition of the metals industry**, and it is also highly experienced in hydrometallurgy and project-specific process technologies.

Successful startup and operation of the prototype plant is an **important milestone in BASF's strategy** to grow its footprint in recycling and recovering valuable metals, including nickel, cobalt, and lithium. The investment in Schwarzheide reinforces BASF's support of the **European Commission's agenda** towards a European battery production value chain and is part of the **"Important Project of Common European Interest (IPCEI)"** approved by the European Commission on December 9, 2019 under the European Union State aid rules.

The launch of innovative battery materials from the Schwarzheide plant and research to develop **next-generation battery materials and process development**, including battery recycling, is funded by the **Federal Ministry for Economics and Climate Action** on the basis of a resolution of the German Bundestag and by the Ministry for Economic Affairs, Labor and Energy of the State of Brandenburg on the basis of a resolution of the Brandenburg State Parliament as part of the IPCEI for Batteries: Funding codes 16BZF101A/B.

About BASF's Catalysts division
BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. It offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world, and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.
Further information on BASF's Catalysts division is available on the Internet at www.catalysts.basf.com.

About Tenova Advanced Technologies
Tenova Advanced Technologies (TAT) offers differentiated, project-specific process technologies based on decades of research, equipment design and project execution experience. Advanced solutions include solvent extraction (SX) for hydrometallurgical processing, electrowinning (EW), membrane circuits, expertise in minerals beneficiation, phosphate processing from ore to purified phosphoric acid and salts, and lithium recovery and production processes developed in TAT's in-house state-of-the-art R&D facilities.

For more information, visit www.tenova.com