

Quotes and further information about the consortium

Dr. Rainer Pflaum

Chief Financial Officer of TransnetBW

"With BANULA, we are creating a user-friendly charging infrastructure and integrating electromobility into the smart grid of the future. A successful energy transition goes hand in hand with a successful mobility transition."

Dr. Christian de Wyl

Attorney and partner at Becker Büttner Held PartGmbB.

"There are good reasons to map charging processes in the balancing group of a supplier of the charging station user. In this way, charging requirements can be planned and flexibilities can be increased. As a project partner in the BANULA project, BBH is working on possible implementation models and is showing how the legal framework would have to be adapted in order to make the usage options in the area of charging infrastructure more flexible. In this way, the project is making an important contribution to furthering the acceptance and ramp-up of e-mobility."

Prof. Krzysztof Rudion

Head of the Renewable Energy Grid Integration Department at IEH, University of Stuttgart.

"The transformation of the transport sector is a central building block of the energy transition. The accompanying shift to electromobility offers many opportunities and benefits not only in the transport sector itself, but also by providing new flexibilities in the power sector. Nevertheless, uncoordinated integration of electromobility into the electrical grids can also result in risks in the area of supply security. Therefore, the Institute for Energy Transmission and High Voltage Technology (IEH) of the University of Stuttgart is engaged in the BANULA project in a close

cooperation with TransnetBW to evaluate the impact of electric vehicles on the electrical grid with a special focus on the transmission grid in Baden-Württemberg."

Dr. Daniel Stetter

Overall project manager at the Fraunhofer Institute for Industrial Engineering IAO.

"BANULA offers the opportunity to take a significant step forward for a future in which electric mobility plays a leading role in the mobility sector. I am excited about our consortium but also about the high interest from the industry in our results."

Rupert Lehner

Corporate Executive Officer and Head of Central and Eastern Europe & Products Europe, Fujitsu

"Fujitsu is committed to helping solve societal and environmental challenges with its technologies and services. We are also keen to accelerate the progress of electromobility, a topic that is so important for Germany. We are all the more pleased that we can contribute to this forward-looking project with our blockchain expertise."

Christoph Hettinger

Managing Director Schwarz Immobilien Service-Facility Management

"The BANULA project provides interesting approaches to solutions that make the charging process for electric vehicles easier and more user-friendly. Since customer satisfaction is a priority at the Schwarz Group, BANULA is of great importance for the further development of our charging station infrastructure."

About the project partners

Fraunhofer Institute for Industrial Engineering IAO

How will people live and work in the future? Asking this and similar questions, researchers at Fraunhofer Institute for Industrial Engineering IAO apply their findings in practice to achieve concrete results. Our experts shape the interaction between humans, technology and organization with a view to the whole, keeping each customer's specific needs in mind. We help companies and institutions recognize the potential of new technologies, harness them for profit, and open up attractive future markets. The Fraunhofer IAO and the IAT of the University of Stuttgart together employ more than 650 people and have around 15000 square meters of office space, demonstration centers as well as development and test laboratories.

www.iao.fraunhofer.de

Badenova AG & Co. KG as representative for the badenova Group

The energy and environmental service provider badenova is the largest energy supply company in southwestern Germany with headquarters in Freiburg im Breisgau. The company was formed in 2001 from a merger of six local energy suppliers and is now firmly rooted in the region with over 90 cities and municipalities as municipal shareholders. badenova and its approximately 1,500 employees are driving forward the goal of an "energy transition for all". With a variety of innovative, modern and individual product and service packages, badenova and its subsidiaries are making a major contribution to climate protection and thus ensuring a future worth living.

www.badenova.de

Becker Büttner Held PartGmbB

Becker Büttner Held (BBH) sees itself as a leading provider of consulting services for energy and infrastructure companies and their clients. The core of our clientele consists of numerous energy and utility companies, especially municipal utilities, local and regional authorities, industrial companies as well as international corporations. BBH supports these and many companies and institutions from other sectors in all legal matters as well as in business management and strategic matters.

www.beckerbuettnerheld.de

Fujitsu

Fujitsu is the leading Japanese provider of information and telecommunication (ICT) based business solutions, offering a wide range of technology products, solutions and services. With approximately 126,000 employees, the company serves customers in more than 100 countries. Fujitsu leverages its ICT expertise to shape the future of society together with its customers. In fiscal 2020 (ended March 31, 2021), Fujitsu Limited (TSE:6702), headquartered in Tokyo, Japan, achieved consolidated annual sales of 3.6 trillion yen (\$34 billion).

www.fujitsu.com

Institute for Energy Transmission and High Voltage Technology (IEH) at the University of Stuttgart.

The institute's research focuses on topics that help ensure a reliable, cost-effective and sustainable energy supply. High-voltage engineering tasks in the field of insulation strength and diagnostics are dealt with in the same way as topics concerning the restructuring of the electrical energy supply, e.g. through the increased use of renewable energies. A special focus of research activities is electromagnetic compatibility (EMC) in power engineering and electronic systems.

www.ieh.uni-stuttgart.de

Institute of Industrial Engineering and Technology Management (IAT) at the University of Stuttgart

The institute is concerned with the integrated planning, design and optimization of innovative products, processes and structures. Taking into account people, organization, technology and the environment, the institute researches and tests new concepts of technology management, work organization and design.

www.iat.uni-stuttgart.de

Parkraumgesellschaft Baden-Württemberg mbH

Founded in 1994, the state-owned Parkraumgesellschaft Baden-Württemberg mbH (PBW) is a parking garage operator and mobility service provider with an almost nationwide presence throughout Baden-Württemberg. PBW manages 230 small, medium and large garages as well as outdoor parking lots with a total of around 25,000 parking spaces in more than 50 cities. Of the 550 charging points that PBW operates throughout the state, it is providing 40 charging points in the Hofdiener parking garage and 20 each in the Landesbibliothek and Tivoli parking garages in Stuttgart for the project. The vParken service co-developed by PBW, consisting of an app and a vParken card, offers digital solutions for parking and mobility.

www.pbw.de

Schwarz Immobilien Service GmbH & Co. KG

The Schwarz Group is a leading international retail company with around 12,900 stores and 500,000 employees in 33 countries. The group generated total sales of 125.3 billion euros in fiscal 2020. Divided into the Production, Retail and Environment divisions, the Schwarz Group covers the entire value chain. Lidl and Kaufland form the pillars in food retailing. Many private label products on their shelves, from ice cream to beverages, are produced by Schwarz Produktion. In waste and recycling management, the environmental service provider PreZero pursues the vision of closed-loop recycling and thus invests in a clean future. Schwarz services provide support for administrative and operational issues.

www.gruppe.schwarz

smartlab Innovationsgesellschaft mbH

SMART/LAB develops innovative electromobile services, products and concepts

for municipal utilities and companies. The focus is always on networking and transparency of charging infrastructure and thus a nationwide network throughout Germany, as well as Europe-wide interoperability with other market players. This means that customers can charge throughout Europe with one tariff. SMART/LAB places particular emphasis on the user-friendliness of the mobility concepts.

www.smartlab-gmbh.com

TransnetBW GmbH

As a transmission system operator, TransnetBW secures the power supply in Baden-Württemberg, in Germany and in Europe. The company controls the energy flows in the grid and creates the infrastructure for the energy transition. To this end, it also conducts research into future-oriented technologies and develops new processes. As the initiator of the BANULA project, TransnetBW is contributing the know-how for the development of the new balancing concept and is developing use cases in the interaction of mobility, market, grid and digitalization. In this way, TransnetBW is already working to ensure system and supply security in the future as the number of electric vehicles continues to rise.

www.transnetbw.de