

# WELCOME

Electric mobility is one of the most outstanding industrial topics of the present time. In order to give it additional impetus, the charging infrastructure must be further expanded. Furthermore, it is in our interest that the industrial manufacturing of the numerous components of electric mobility takes place in Germany.

Particular focus must be on the development of technologies and concepts for the sensible and user-friendly integration of electric vehicles into intelligent power grids. As the proportion of regenerative energy continues to increase in the future, we will need intelligent solutions to ensure the reliability and stability of the power grid. Achieving this will require a continuous exchange of ideas and opinions between science, industry and politics. This ATZ conference will make a key contribution to this.

I wish you great success for your conference.

Matthias Machnig  
State Secretary  
Federal Ministry for Economic Affairs and Energy

The UN Climate Change Conference in Paris, with its key topics of global warming and deteriorating air quality, will speed up the advance of electric mobility. CO<sub>2</sub>-neutral and zero-emission mobility require electricity to be generated from regenerative sources of energy.

Power generation from wind and solar energy, however, is dependent on the weather and is therefore not stable. The irregularities that occur in nature can result in unacceptable voltage fluctuations in the power grid. For that reason, the availability of highly flexible loads and storage systems is becoming particularly important. Electric vehicles, with their grid-relevant properties as controllable power consumers and electricity storage systems, could help to stabilize future power grids.

A true breakthrough in electric mobility will not occur until the product and the infrastructure are in perfect harmony. In order to optimize the interaction between representatives from the automotive industry, energy providers, data services and politics nationally and internationally, we are offering you this new and interdisciplinary forum in Berlin at the end of May. It will enable you to make direct contact with all interface partners to acquire comprehensive information on current issues and to exchange the very latest knowledge.

We cordially invite you to come to Berlin and we look forward to your active participation.

On behalf of the Program Advisory Board,

Your  
Dr. Johannes Liebl  
Editor-in-Charge ATZ | MTZ | ATZelektronik

Grid Integration of Electric Mobility  
1st International ATZ Conference 2016  
Liebl, J. (Ed.)  
2017, XII, 307 p. 231 illus., Softcover  
ISBN: 978-3-658-15442-4