Dobler-Eggers, Christian

MINUTES

Germany, Kassel – 3rd February 2022, 10:00 – 12:00

5th Stakeholder Meeting

EMOBICITY

Introduction

The fifth stakeholder meeting of the regional stakeholder group of the region of Northern Hesse was organized by the Regionalmanagement Northern Hesse (RMNH) and took place via Microsoft Teams on 3rd of February 2022.

TOP 1

Welcome and Round of Introductions

Dr. Astrid Szogs, Regionalmanagement Nordhessen GmbH

Dr. Astrid Szogs, Cluster Head Mobility at Regionalmanagement Nordhessen GmbH, welcomes the EMOBICITY stakeholders as well as the external speakers and introduces today's topic.

TOP 2

Update Project EMOBICITY

Christian Dobler-Eggers, Regionalmanagement Nordhessen GmbH

Christian Dobler-Eggers, project manager in the mobility cluster at Regionalmanagement Nordhessen GmbH, gives an update on the current status of the EMOBICITY project (see attached presentation).

TOP 3

Charging Infrastructure 2.0

Dr. Sascha Holzhauer, Universität Kassel

Dr. Sascha Holzhauer presents the project Charging Infrastructure 2.0. In the project, the charging infrastructure for electric vehicles is to be optimized in terms of energy and network

management. In doing so, the needs and interests of vehicle users, vehicle and charging infrastructure manufacturers as well as network operators and energy suppliers are to be aligned. The focus of the holistic analysis is on interactions between products and tariffs, regulations, planning and operation.

The strong growth in electric vehicles requires a comprehensive integration of e-mobility into the German energy systems. Due to the complexity of the system and the various interdependencies of technical solutions, a pure consideration of the individual systems is not sufficient for a comprehensive analysis. The research project "Charging Infrastructure 2.0" sheds light on various sub-aspects in order to investigate the influence of electromobility on the energy grids of the future.

In addition to the development of the needs and challenges, a comprehensive consideration of the solution paths offers the possibility of providing a coordinated solution that is best for the economy as a whole. The needs/interests of vehicle users, vehicle and charging infrastructure manufacturers, as well as grid operators and energy suppliers should be considered and served. As an operational management strategy of the distribution network, a flexibility market is designed, implemented and analyzed at the INES department. Based on original schedules of the HEMS, they can (automatically) define flexible consumption or generation capacities as deviations from their schedules and place them as flexibility bids on the flexibility market platform. The platform matches bids based on the flexibility demand provided by the DSO for short intervals over 24 hours, taking into account bid dependencies and grid restrictions. A connected distribution network simulation can then be used to check the effectiveness. If necessary, the matching is then adjusted and the result is reported back to the HEMS in any case.

This operational management can potentially reach a large number of different customers and act in a targeted manner, both temporally and spatially, to avoid grid overload. The research focuses on interactions between flexibility market design and customer behavior on price developments and grid stability. The flexibility market will be integrated as a component in the overall simulation of the project, also to consider scenarios of interacting operation management strategies.

TOP 4

Electric Mobility from the Perspective of the Network Operator

Nicolas Spengler, EAM EnergiePlus GmbH

Nicolas Spengler reports on electromobility from the perspective of the network operator EAM. As early as 10 years ago, EAM included its own electric vehicles in its fleet. In addition to setting up and operating a small charging infrastructure, the company participated in research and development projects early on and was thus also able to accumulate a lot of know-how. A good 5 years ago, EAM set up paid fast charging stations for the first time and tested pricing models. In addition, charging services of various kinds were offered. In 2017, EAM then also got involved in the topic of grid integration and the development of concepts for grid loading in the course of the expansion of e-mobility. In the C/sells project, EAM participated in the integration of regional flexibility markets. In addition, an IT infrastructure for value-added

services and operations management was developed. Currently, Nicolas Spengler and EAM are involved in the research project unIT-e², in which area-wide e-mobility is to be tested in a large field test.

TOP 5

Implementation of Charging Infrastructure in the Company

Simon Schilling, EV-Charging Expert, b2charge

Simon Schilling, founder and EV Charging Expert, presents the company's own e Mobility Compass. With it, a decisive step, namely the step from theory to practice, can be professionally advised and implemented. Interested parties from all sectors can thus get a complete overview of products, solutions and offers for charging electric vehicles. This includes hardware components, physical products, software and service offerings through to consulting services.

Only compliance with and implementation of common market standards and consideration of existing data models make an IT system landscape compatible with market partners and companies ready for the future with electromobility. With b2charge.com, Mr. Schilling has the world's most comprehensive business platform for listing, searching and finding professional products for charging electric vehicles.

For more information, please visit: https://b2charge.com/ or contact Mr. Schilling directly simon.schilling@wiedergruen.com.

TOP 6

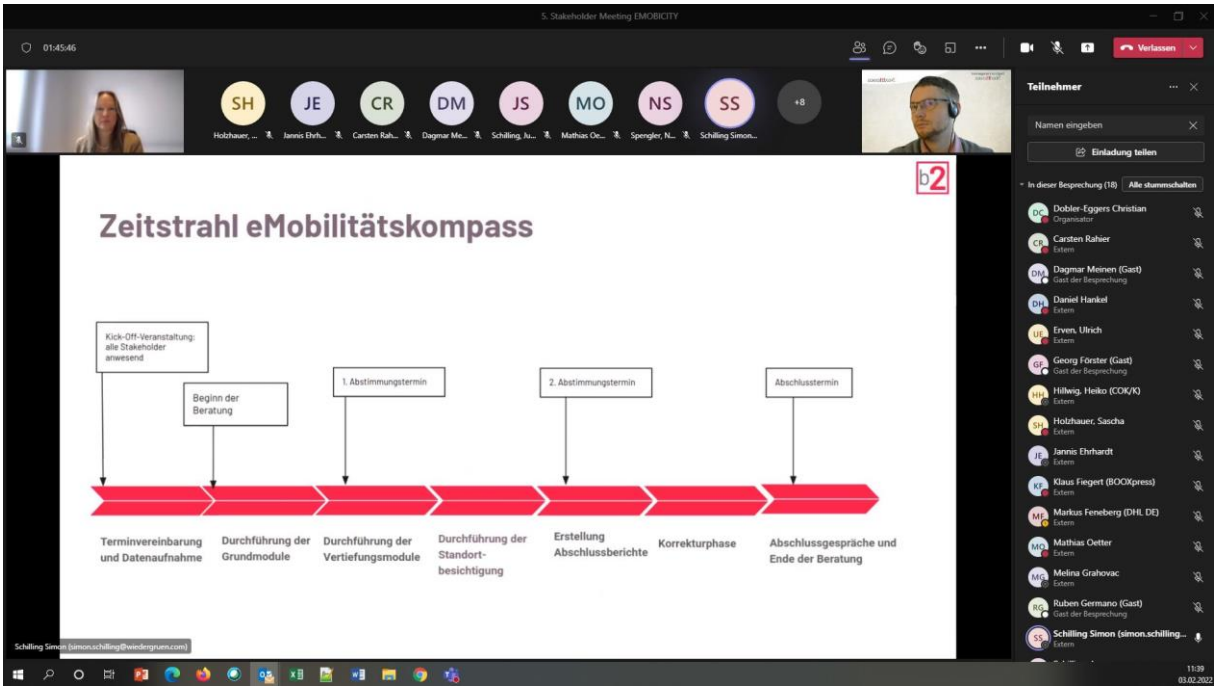
Summary and Outlook

Christian Dobler-Eggers, Regionalmanagement Nordhessen GmbH

Christian Dobler-Eggers summarizes the results of the meeting. The next official stakeholder meeting is expected to take place in June 2022. A corresponding Doodle survey will be made available for finding a date. In terms of content, in addition to the discussion of the regional action plan, the topic will be "Overall concept for climate-friendly commercial vehicles".

The stakeholders will also be asked separately to complete the following survey on the evaluation of the EMOBICITY project (survey).

Photo/Screenshot



List of Participants

Nr.	Name	Vorname	Unternehmen
1	Dobler-Eggers	Christian	MoWiN.net e. V. / Regionalmanagement Nordhessen GmbH
2	Ehrhardt	Jannis	B. Braun Melsungen
3	Ernst	Bernhardt	IEE Fraunhofer
4	Erven	Ulrich	LandesEnergieAgentur Hessen GmbH
5	Feneberg	Markus	DHL Freight GmbH
6	Fiegert	Klaus	BOOXpress GmbH
7	Förster	Helge	Hübner GmbH
8	Förster	Dr. Georg	Stadt Kassel
9	Germano	Ruben	Sonstige
10	Grahovac	Melina	b2charge
11	Hankel	Daniel	IHK Kassel-Marburg
12	Hillwig	Heiko	Volkswagen AG
13	Holzhauer	Dr. Sascha	Universität Kassel
14	Meinen	Dagmar	Hessisches Ministerium für Wirtschaft, Energie, Verkehr und Wohnen
15	Oetter	Mathias	Dachser SE
16	Rahier	Carsten	Sera GmbH
17	Reed	Tanita	B. Braun Melsungen
18	Schilling	Jürgen	LandesEnergieAgentur Hessen GmbH
19	Schilling	Simon	b2charge
20	Spengler	Nicolas	EAM EnergiePlus GmbH
21	Szirmay	Markus	sera Hydrogen GmbH
22	Szogs	Dr. Astrid	MoWiN.net e. V. / Regionalmanagement Nordhessen GmbH