

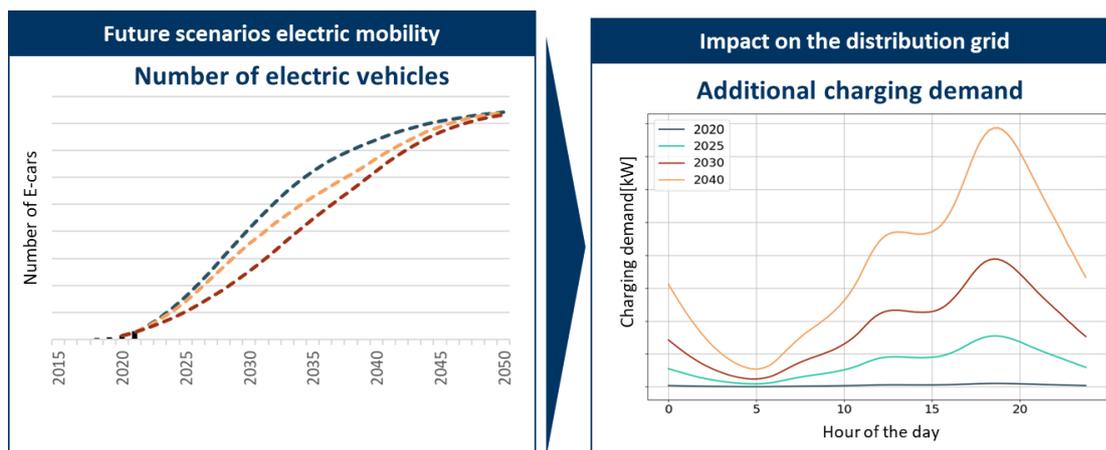
Media release

aliunid focuses on smart integration of electromobility

A growing number of electric cars poses new challenges for grid operators. aliunid has a convincing and comprehensive solution approach in the field of electric mobility. Following the principle of "intelligence before copper", the Swiss start-up proposes a collective load management solution at the distribution grid level.

Brugg (Switzerland), June 2022. The number of electric cars is increasing rapidly and with it the additional electricity demand. 70 to 90% of electric car owners charge their vehicles at home, which leads to additional peak loads in the evening. An increasing spread of electric mobility without appropriate measures leads to an overload of many distribution grids. This poses new challenges for grid operators.

aliunid offers distribution network operators (DSOs) comprehensive expertise in the area of electromobility. Specific future scenarios, simulations or monitoring of the distribution network and charging stations help to classify the challenges and identify the right measures to ensure that the networks are fit for the future.



In view of the impending congestion, grid operators are faced with a choice: either they have to implement expensive and resource-intensive expansion measures or reject connection applications for new e-charging stations. Already today, connection applications have to be rejected in some cases, which slows down the spread of e-mobility. aliunid proposes intelligent control and use of the existing infrastructure. The principle of "intelligence before copper" should apply. In this way, electromobility can be intelligently integrated into the electricity grid.

Many grid operators are interested in solutions that enable targeted charging management at the distribution grid level. aliunid's load management solution does just that: a higher-level control mechanism collectively optimises the charging behaviour of all electric cars within a transformer circuit to prevent local grid overloads. REAL-TIME data on the utilisation of the distribution grid and on the cloud interfaces to charging stations serve as a basis. The control algorithm only intervenes when the load in the grid is also high. This enables load management without unnecessarily restricting the owners of electric cars.



The interaction with the owners of electric mobility is crucial for the acceptance of such a solution. Ultimately, charging flexibility belongs to the customers. They are addressed directly via an app, retain the final decision-making authority over their charging flexibility and are remunerated accordingly for making their flexibility available. This transparency creates the basis for a successful and rapid integration of electric mobility into the existing distribution network.

Further information: www.aliunid.com

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About aliunid:

aliunid [all you need] is a digital energy supply company (EVU). The Swiss start-up does not have its own physical infrastructures such as grids, transformers and power plants, but creates value through REAL-TIME data, connectivity and its own Swiss Internet of Things (IoT) platform. As a white-label offering for energy suppliers, grid operators and energy producers, aliunid analyses and controls the energy flows from the household to the distribution cabin and transformer to the power plant. This allows the energy system to breathe flexibly, and a renewable, climate-friendly energy supply becomes possible.

Dr David Thiel and Prof. Dr Andreas Danuser founded aliunid in spring 2018. They bring their many years of experience to an interdisciplinary team of around 20 experts to shape the energy supply of tomorrow. The Swiss start-up was awarded the Energiewende Award 2021 for its commitment. This puts aliunid among the top digital providers among more than 1700 energy suppliers from Germany, Austria and Switzerland that were examined.