

Media release

Power shortage: aliunid offers innovative solutions

The Swiss energy start-up aliunid supports distribution network operators and their large customers before, during and after a contingent

Brugg, 13 September 2022. Switzerland is preparing for an electricity shortage. In just a few months, the demand for electrical energy could exceed the supply for several days or weeks. That is when electricity production and supply will be too low due to various factors. These factors include low reservoir levels, little wind and sun, and the failure of power plants abroad.

Distribution grid operators have a central role in this challenging situation. They are affiliated with OSTRAL (Organisation for Electricity Supply in Extraordinary Situations), which coordinates supply and consumption management. The distribution grid operators are the first point of contact for customers during an electricity shortage and they inform the electricity customers directly about the implementation of the measures.

In the various phases of electricity shortages, which range from monitoring the situation to alerting and increased readiness, all the way to quotas and shutdowns, it is essential for distribution grid operators to be fully informed about the situation in their supply area. Monitoring, forecasting, reporting and notifications to large customers must meet the most modern requirements and be coordinated with each other.



Distribution grid operators and customers are connected via the Swiss Internet of Things (SIoT).

With the POWER Kit, the energy start-up aliunid offers distribution network operators and their large customers the right solution based on real-time data in the event of an electricity shortage. Central elements of the offer are

the aliunid GATEWAY as a link between the electricity meter and the digital applications of aliunid, the aliunid UTILITY platform for the management of energy data, user-friendly evaluations via smartphone app as well as the Swiss Internet of Things (SIoT) developed by Appmodule in strategic partnership with aliunid. "Distribution network operators can act and inform in a customer-oriented manner. Corporate customers can optimise and save. Everyone always maintains an overview - in real time - and they fulfil all requirements regarding reporting and documentation," says Dr David Thiel, CEO of aliunid. "Now it is time to prepare for the emergency."

Those who opt for aliunid POWER Kit can have 10 metering points connected within days and view them in the UTILITY platform and smartphone app. Further specifications enable the flexible bundling



The aliunid UTILITY platform, the aliunid GATEWAY and the aliunid smartphone app offer added value before, during and after the power shortage.

of customers in the distribution network, the monitoring and optimisation of electricity consumption, the creation of forecasts and reports, the use of an integrated communication channel as well as a complete, meter-specific documentation of messages per large customer. Each customer receives its own private cloud. When activated by the customer, an intelligent swarm of distributed systems is created. The data is located in Switzerland, protected by the Swiss Data Protection Act. This is essential in the event of a crisis in order to avoid dependencies.

The aliunid solutions are already used by over 30 Swiss companies from all stages of the value chain in the energy industry and from all parts of the country to form the aliunid community. The partnership-based approach of aliunid ensures practical development and implementation of solutions for the electricity sector. The startup is funded by the Swiss Federal Office of Energy and the EU's Horizon 2020 research programme and works together with ETH Zurich, Empa, Bern University of Applied Sciences and HES-SO Valais, among others. Since August 2021, aliunid has been part of the cluster of the Technology Fund of the Swiss Confederation.

Further information: www.aliunid.com

Contact person for queries:

Dr. David Thiel, CEO aliunid

Tel. +41 79 379 30 62; e-mail: david.thiel@aliunid.com

Claudia Lanz-Carl, CFO aliunid

Tel. +41 76 824 54 06; e-mail: claudia.lanz-carl@aliunid.com

About aliunid:

aliunid [all you need] is a digital energy supply company. 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 and ranks among the top of more than 1700 energy providers from Germany, Austria and Switzerland that were examined.