

**ProCom at E-world energy & water,
February 5 - 7 2018 in Essen, Hall 3, Stand 3-440**

Optimization solutions with traction: ProCom puts power on the road

Artificial intelligence optimizes green electricity usage, e-mobility and grid stabilization

Aachen (Germany), January 22, 2019 – The shared goal of the collaboration between ProCom and XCharge is to use wind and solar power for driving at low-cost rates while supporting the power grid. Learn more about the synergies the two partners unleash by coupling the energy and transportation sectors. At E-world energy & water (Hall 3, Stand 440) the companies are presenting their innovations for tomorrow's mobility.



Charging electric vehicles with wind and solar power while stabilizing the grid

The artificial intelligence of ProCom's BoFiT optimization and forecasting solution combined with the XCharge charging stations enables resource-conserving charging of electric vehicles, reducing the share of fossil energy in the electricity mix, and stabilizing the power grid.

To make the best possible use of wind or PV power, for example, the BoFiT software uses historical data from the XCharge charging stations to forecast loads. These forecasts facilitate short-cycle optimization, which in turn determines operating schedules for electricity generation. That helps green power reach the road ahead of its rivals.

To allow variations in electricity generation from renewable energy resources to be accommodated optimally, BoFiT also manages the charging process and adapts the power

level and charging time to the available electricity supply. That reduces the need for reserve capacity, which currently is often provided by coal and gas power plants. This flexibilization of the charging process can additionally be linked to load-dependent rates. As a result, flexible charge management minimizes the use of fossil fuels and reduces costs for e-car drives.

The next development step is to merge power generation, electricity trading, storage systems and electromobility into an integrated managed system. Collectively the batteries of electric vehicles can provide secondary operating reserve to stabilize the power grid. With the aid of clever algorithms and smart charging stations, that can be done without any detrimental effects for vehicle drivers.

*ProCom and XCharge are presenting their vision on how to drive the synthesis of the power and transportation sectors at the E-world trade fair in Hall 3 at Stand 440. The topics addressed by the planned presentations include “**BoFiT E-Mobility: forecast and planning for optimal XCharge Loadmanagement**,” “**Electrifying Transport – Challenges for public transport, logistics fleets and car sharing**.” Visitors can attend free presentations on all three days of the trade fair.*

Information about the presentations and other ProCom activities at the E-world trade fair is available at <https://procom-energy.de/en/events/procom-at-e-world-2019/>

Other highlights at the ProCom stand and in the presentations

ITA B2B – Intraday electricity trading even without your own market access

The ITA market tool supports intraday trading. It gives a real-time overview of the current market situation, enables automatic generation of trading suggestions, and allows orders to be sent (manually or automatically) to the market or a trading service provider. The new version 3.0 of ITA also supports multi-market trading as a standard feature. The ITA B2B variant is a master/client solution that enables intraday trading for customers without their own market access. For this, ITA B2B provides an interface that allows orders and transactions to be sent to the master of a trading service provider admitted to the market. In addition, automatic status updating ensures that both sides can constantly follow the course of trading.

*You can learn more about the functions ITA offers to simplify everyday trading at the ProCom demos and in the free presentation “**ITA Multi Market: EPEX, Nord Pool, XBID and service providers**.”*

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*To learn how en.View supports you on your tablet or PC and links in your customers over the Internet, visit the presentation “**Digitization of energy sales with ProCom en.View**” or ask for a personal tour at the demo station of our trade fair stand.*

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About ProCom

ProCom GmbH is a successful family business with a clearly defined growth and internationalization strategy.

In the energy sector, ProCom provides consultancy on key issues in energy production and trading. Drawing on process and IT expertise, ProCom consultants support the successful implementation of strategic projects all the way to the operational phase. IT solutions from ProCom ensure optimum marketing of energy portfolios in all timescales and markets.

As a development specialist in cutting and separating processes, ProCom Automation has over 40 years' experience in developing sophisticated CNC software and hardware and CAM solutions for machine series. The company invests in the European and Chinese markets, both in its established, expandable product range as well as in future-oriented services in Industry 4.0.

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