



Europe's largest energy storage system is now live at the Johan Crujff Arena

Amsterdam (29 June 2018) - Today the largest European energy storage system using second-life and new electric vehicle batteries in a commercial building was made live. Amsterdam Alderman Udo Kock conducted the official opening ceremony.

This unique project is the result of collaboration between Nissan, Eaton, BAM, The Mobility House and the Johan Crujff Arena, supported by the Amsterdam Climate and Energy Fund (AKEF) and Interreg.

The 3 megawatt storage system provides a more reliable and efficient energy supply and usage for the stadium, its visitors, neighbors and the Dutch energy grid. Combining Eaton power conversion units and the equivalent of 148 Nissan LEAF batteries, the energy storage system not only enables a more sustainable energy system, it also creates a circular economy for electric vehicle batteries.

"Thanks to this energy storage system, the stadium will be able to use its own sustainable energy more intelligently and, as Amsterdam Energy Arena BV, it can trade in the batteries' available storage capacity." says Henk van Raan, director of innovation at the Johan Crujff Arena. "The Arena is assured of a considerable amount of power, even during an outage. As a result, the stadium will contribute to a stable Dutch energy grid. The Johan Crujff Arena is one of the most sustainable stadiums in the world and leads the way in introducing smart innovations like this unique energy storage system."

"We are delighted to be part of the Europe's largest energy storage system developed for a commercial building. Thanks to the Johan Crujff Arena we can demonstrate today that re-purposing the batteries of Nissan electric vehicles can contribute to make the whole energy system more efficient and sustainable. We are putting our electric ecosystem at the heart of a sustainable future, transforming the way we drive and also transforming the way we live' says Francisco Carranza, Managing Director of Nissan Energy.

Flexible storage capacity

The energy storage system plays an important role in balancing supply and demand of energy in the Johan Crujff Arena. The storage system with 3 megawatts and 2.8 - megawatts hour is enough to power several thousand households. This capacity also means that the energy produced by the 4,200 solar panels on the roof of the Arena can also be stored and used optimally. The energy storage system will provide back-up power, reducing the use of diesel generators, and provide relief to the energy grid by flattening the peaks that occur during concerts.

Johan Crujff Arena

Johan Crujff Arena is an important player in the top league of international, multi-purpose stadiums. It is the home of AFC Ajax and the stage for the Dutch national team, big concerts, dance events and business meetings. Johan Crujff Arena welcomes more than two million visitors annually. Johan Crujff Arena makes it all about the audience experience. Together with its partners, Johan Crujff Arena offers top-level services and facilities, and is constantly working on creating an optimal fan experience in and around the stadium.

Amsterdam Innovation Arena

The stadium's new energy storage system and related company, Amsterdam Energy Arena BV, are concrete results of the innovation program managed by Amsterdam Innovation Arena, in which knowledge institutions, governments and companies such as BAM, Nissan, Eaton and The Mobility House are working on the stadium of the future.

The stadium and neighboring area function as a Living Lab; a hotspot for testing innovations in practice. Innovative concepts and ideas as well as proven solutions in the field of stadium construction, management and exploitation will find their way to stadiums, sports and recreational areas throughout the world via Johan Crujff Arena International. The partners in Amsterdam Innovation Arena are: Johan Crujff Arena, Amsterdam City Council, Amsterdam Smart City, TNO, KPN, KPMG, Huawei, Microsoft, Signify, Nissan, Eaton, Honeywell and BAM.

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