

## Energy storage for demand response estonia

Estonian start-up FuseBox and Norwegian company Pixii started cooperation to develop and combine energy storage systems with demand response. The project enables real-time communication between electricity consumers, energy storage and energy systems to maximize the use of renewables and solve the issues related to variable generation. The 1.4 million euros development project started on 1 June, 2021 and will be partly funded through Norway Grants Green ICT programme by Enterprise Estonia.

The energy sector is moving from centralized thermal electricity generation to more decentralized and volatile generation of renewables, such as wind and solar. "An increasing share of renewables generation helps to reduce the energy sector's carbon footprint and creates the preconditions for deployment of carbon neutral electricity generation," said Tarvo ?ng, Fusebox founder and CEO. "However, due to the highly variable generation characteristics, solar and wind energy must be balanced or compensated fast to maintain stability of the electricity system".

This cooperation project will replace traditional carbon intensive generating flexibility assets with smarter integration and use of distributed flexible assets such as batteries and loads. The energy sector carbon intensity will thereby be reduced whilst increasing the efficiency of the energy system. "This is achieved by combining Fusebox's demand response experience and Pixii's energy storage competence to enable next-generation energy infrastructure instead of investing into existing infrastructure which was built to support centralized electricity generation," explained ?ng.



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