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Arva purchases Norway's largest battery

On Wednesday, Arva AS signed a contract for the purchase of two energy storage facilities with Rolls-Royce Solutions Berlin. The batteries will be placed in Nord-Senja, in Senjahopen and at Husøy, and represent an important milestone for the Smart Senja project. The battery at Husøy, with its capacity of 2 MWh, will be Norway's largest battery of its kind.

The purpose of the batteries is to strengthen the current power network in northern Senja. For the fishing industry, it is especially the short voltage drops that are very challenging as they can cause long production interruptions.

- This is not only Arva's very first battery in our power network, but also the first in northern Norway and the largest nationally. It is therefore a major event that we are confident will strengthen energy supply locally and give us important knowledge in shaping the power network of the future. By doing this, we can continue to deliver cost-effective, good network solutions to our customers as the need for electricity both increases and changes, says Eirin Kjølstad, managing director, Arva AS.

Rolls-Royce Solutions Berlin is part of the Rolls-Royce group and has solid experience in energy storage facilities. It has delivered to more than 60 projects on five different continents.

- Rolls-Royce is looking forward to the cooperation with Arva and we are very excited to be part of this innovative project that pioneers new energy solutions for communities with high energy needs. Together with our partner BOS Power, we ensure full life-cycle support for our mtu EnergyPacks and will help to shape a climate-friendly solution that secures energy supply, says Steffen Heinrich, managing director, Rolls Royce Solutions Berlin.

Bertel O. Steen Power Solutions (BOS Power) is a supplier of integrated power solutions to a number of industrial sectors in the Nordic region and is an authorized distributor for Rolls-Royce Power Systems in the Nordic region. BOS Power will, via its office in Svolvær, assist with installation and commissioning, as well as operational assistance and service of the batteries.

- We are now a proud contributor to sustainable and smart energy supply for northern Senja. By installing local energy storage facilities that will function as energy buffers, we will, together with the



local grid company, help to provide residents and businesses on Senja with a satisfactory power supply, says Ove Johan Solem, CEO of Bertel O Steen Power Solutions.

More stable power supply when using batteries - testing will start as early as this autumn

During autumn 2021, the batteries will be placed, in Senjahopen and at Husøy. The energy storage facility at Husøy will have the capacity to supply the entire community, including the fish processing plant, for approximately one hour. In Senjahopen, the battery will be able to supply the automated part of the fish processing plant for about an hour.

The batteries will help limiting the occurrence of short voltage drops in these two communities. In addition, the batteries will provide more energy locally when needed. They will be an integrated part of the Smart Senja project, which will provide valuable experience.

- The batteries are the largest single investment we make in the Smart Senja project. The contract with Rolls-Royce is therefore an important milestone for the project. We hope that everything will be ready during 2021 so that we can start testing the batteries in connection with the intensive herring and cod season early next year. Together with the other activities in the Smart Senja project, this will contribute to solve the power network challenges in North Senja. We will also be able to implement these new solutions to solve similar challenges elsewhere, says Julien Moisan, project manager for Smart Senja in Arva.

The work of finding a supplier of energy storage facilities for the Smart Senja project began in the autumn of 2020. Rolls Royce will now join as a new partner in the Smart Senja project.

The Smart Senja project is owned by Arva AS and is put together by both local and national actors, from industry to academia. Smart Senja is one of eight large-scale demo projects that received support from ENOVA in 2019 within the program «Future energy systems». The goal for Smart Senja is to identify and test smart solutions that can tackle power network challenges on northern Senja, and that may be relevant for other places with similar challenges.

The partners in the project are Br. Karlsen, Nergård AS, Arva AS, Tromskraft Produksjon AS, Ishavskraft, UiT Norwegian Arctic University, Enfo, Nodes AS, Powel AS, Eaton Electric AS and Solbes AS.