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AS72/SPITS Power System Upgrade

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NORSAR is the Norwegian National Data Centre (NDC) and operates six stations of the International Monitoring System. These are the primary seismic arrays NOA/PS27, ARCES/PS28, the auxiliary seismic array SPITS/AS72, the auxiliary single seismic station JMIC/AS73, the infrasound array IS37 and the radionuclide station RN49. It is crucial to have a stable power supply with a sufficient battery bank capacity to the stations and the auxiliary station AS72/SPITS was refurbished to secure stable operation for the future. This presentation will give an overview of NORSARs choice of system and the work with replacing the previous power supply system. The old system consisted of a lead acid battery bank, two stirling generators, solar panels and a wind turbine. The new system is a complete UPS system from Eltek (a Delta group company) with lithium-ion batteries, new solar panels and Cummins diesel generator in addition to the wind turbine.

E-mail

jon@norsar.no

Promotional text

Refurbishment of the polar off-grid power system of the seismic array AS72.

Oral preference format

in-person

Primary author: Mr CHRISTENSEN, Jon Magnus (Norwegian Seismic Array (NORSAR))

Co-authors: Mr FREITAG, Bjørn Christian (Norwegian Seismic Array (NORSAR)); Mr STOKKAN, Sindre (Norwegian Seismic Array (NORSAR))

Presenter: Mr CHRISTENSEN, Jon Magnus (Norwegian Seismic Array (NORSAR))

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