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AS72/SPITS Power system upgrade and plans for Antarctic off-grid station

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. The auxiliary station AS72/SPITS was refurbished to secure stable operation for the future in 2022. This presentation will give an overview of the first years of operating the new power system with lessons learned, changes and expansions. Transition from project to daily operation and scheduled maintenance. The lessons learned from the AS72 power system upgrade will be leveraged in a research project at the Norwegian Antarctic station Troll where NORSAR is planning to establish a seismoacoustic 9-element off-grid array station. This presentation will outline the initial planning of the project and design choices.

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