

# use of LiFePO<sub>4</sub> Batteries as a Back Up Power Source for Extreme Environments and Considerations of the Power Supply Design for Such Locations

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The emerging technologies of Li-Ion batteries offer new design possibilities for remote monitoring station power supplies. Based on recent installations and testing of these batteries and complementary equipment, the Engineering and Development Section of the International Monitoring System Division presents the results of both field and desktop studies, describing the advantages and disadvantages of using LiFePO<sub>4</sub> batteries, as well as general design considerations for use of such technologies within the International Monitoring System network.

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## Promotional text

With multiple seismic and infrasound IMS stations deployed in polar regions, there exists a need for resilient power system strategies for sustainment of the IMS network. Incorporating new battery technologies will be essential for scientific development in support of the CTBT.

## Oral preference format

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