



Lead crystal batteries

Lead Crystal Battery Assessment

We wanted to assess the benefits of lead crystal batteries for specific network applications and understand if they provided benefits over of lead acid or NiCAD battery technology.

Traditional lead acid batteries have a number of limitations including a short service life, operation at higher temperatures, the need for them to be used in strictly controlled environments, along with the need for diligent safety and environmental management during and after their use.

New battery technologies are being developed at a rapid pace to meet the growing demands of a range of

industries for batteries that are smaller, with longer lives and larger capacities at higher temperatures. Lead crystal battery technology has the potential to be used to replace lead acid batteries to deliver technical, efficiency and financial benefits.

A research project was carried out to investigate the potential benefits of lead crystal batteries and other battery technologies.

The project wanted to find network applications where like-for-like replacement of traditional lead acid or NiCAD batteries by lead crystal batteries could be feasible and beneficial. It also investigated if there was merit in pursuing a follow on project to implement the use of an alternative battery technology to traditional applications.



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