

Case study

Remote monitoring



Environmental monitoring – nuclear waste

Customer:



Svensk Kärnbränslehantering AB
Swedish Nuclear Fuel and Waste
Management Co. www.skb.se

Objective:

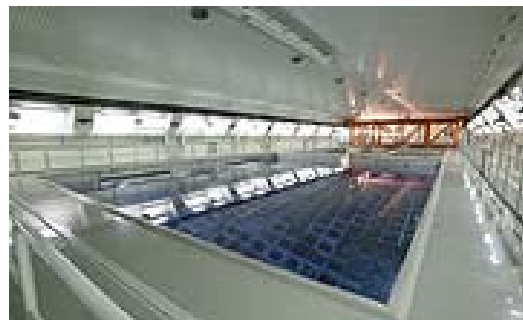
SKB use Mitec's SatelLite60 GSM-system in the Forsmark and Oskarshamn region in Sweden for site monitoring of storage facilities for nuclear waste, storage which has a time perspective longer than two ice ages. Groundwater, pH and conductivity levels are logged at numerous measuring points and measuring data automatically exported to SKB's database and visualisation system from Mitec's measuring server program Mitec Monitor.

Solution:

- Mitec battery powered GSM measuring stations log level, pH and conductivity.
- SKB servers collect data for export to SKB database and supervision system.
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Advantages:

- Mitec system provides reliable and accurate data
 - Documentation for research and quality system
 - Cost savings due to reduced travelling
- Small size, robustness, battery-power combined with well-tested software provide a cost-effective solution that influenced SKB's choice of supplier.



Products

Measuring station:	Battery powered Mitec AT40 and SatelLite60 stations.	 SatelLite60-K Submersible level sensor
Communication:	GSM dual band 900/1800.	
Power supply:	12V alkaline battery pack with 6-month durability. ISO14025 environmental decelerated.	
Sensors:	SKB selected level sensors from Druck, UK.	
Data acquisition:	Customer managed server with automatic export to customers database.	
Information distribution:	For internal use.	

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