



Environmental & Operational Efficiency Solutions

The Background

The growing use of contract maintenance services to increase operational efficiency has resulted in a need for a single access method at remote sites. The system needs to ensure access regardless of the engineer or the installed equipment while adhering to a strict security policy.

In addition to this, Internet technology is cheaper than any other communications medium and the obvious benefits in B2B transactions are well recognised. Everyone is looking for new and better ways of doing business, but still the majority of companies lack confidence and understanding when exploring the e-commerce and m-commerce options. It is not just IT, it is a new operational philosophy and it requires people to think differently. Everyone agrees that e-commerce and m-commerce are the way forward, but just how it should be integrated into an established business leaves many in a quandary. Getting expert advice and support is the fast track route through what can often seem a technology labyrinth to the nirvana of cost reductions and operational efficiency.

The Opportunity

Your environmental infrastructure, as part of an integrated and managed network, is therefore no longer an additional part of those complex systems, it becomes an enabling technology delivering the following advantages:-

- 👉 **Saving in maintenance costs.** Remote tasks such as discharge testing are performed automatically thus saving site visits. Emergency callouts are reduced by giving advance warning of failing devices such as filters, allowing a planned maintenance programme, where the engineer knows in advance what is required at each site.
- 👉 **Saving in power costs.** Using the sophisticated switching and control facilities of the PMS, equipment and services can be used to the utmost economical and operational benefit. The automatic switching of rectifier capacity not only saves power, but also greatly increases the efficiency of the remaining rectifiers.



- 👉 **Immediate response to remote faults.** Instantaneous feedback ensures that initial problems can be identified quickly and can therefore reduce the probability of a number of more serious technical, associated management and political problems occurring.
- 👉 **Additional site telemetry.** Other environmental site information can be collated and transmitted on the REMS system, offering total flexibility.
- 👉 **Increase in usable battery life.** With controlled charging algorithms and regular exercising the battery life is optimised. From the charge/discharge characteristics of particular batteries premature failure can be predicted and corrective action taken. Furthermore the custom of fixed duration, early replacement can be prevented.

Your Benefits

REMS bring to market the knowledge of the technology combined with practical implementations under the umbrella of their 25x8 solutions.

By offering value added solutions and services, REMS can deliver a range of customer benefits;

- ✓ The 25x8 solutions provide your group an effective environmental management policy through a standard system.
- ✓ REMS solutions enable you, our customers to standardise communications to provide a closer working relationship across your organisation.
- ✓ REMS 25x8 solutions permit you to operate over the Internet using a universal browser and accelerate your move towards group wide environmental procedures and increased operational efficiency.
- ✓ Operational procedures will be simplified and the management process will be streamlined, reducing the time and effort involved and thereby delivering greater economical benefits.



- ✓ The 25x8 solutions will free up the time you spend on routine administration processes and increase your influence on the business. Facility and Operational managers will have more time to become involved in strategic and important projects.

REMS Solution

REMS 25x8 solutions are extremely cost effective, even for small installations. As a network depends upon remote installations it is imperative that the operator knows the condition of the equipment.

The 25x8 services offered, range from full control of your sites to simple site status access. Full 25x8 control and monitoring of remote sites allows the operators to detect problems at an early stage and target specific sites for attention. This improves reliability, generating more consistent availability and hence increased revenues. The solution also permits the deferral of costly upgrades by correctly maintaining such equipment as standby battery systems.

The current demand is for a user friendly graphical and text interface with some intelligence, offering the user optional response criteria to alarm conditions. The system must not overload the network manager with information and only the most important data needs to be brought to the operators' attention. These requirements are met by the REMS 25x8 solution.

REMS Solution Plus

The selective outsourcing market is experiencing strong growth with REMS enhancing its position within this market. The 25x8 services management team has significant experience in installation and support solutions. REMS have an experienced team including technical and operational management personnel.



ENVIRONMENTAL MANAGEMENT POSSIBILITIES

The REMS 25x8 Solutions enables proactive management and monitoring that delivers both commercial and technical advantages which improves service for the end users. **The REMS International solution can Monitor, Control and Manage all components regardless of manufacturer.** The applications for which are limited only by the imagination of the user.

Monitor

- ✓ AC or DC power supply systems or components (mains, rectifier, UPS, generator, battery, fuse and circuit breakers), current and voltage levels for failure or degradation of service
- ✓ Air conditioning for failure or degradation of service
- ✓ Swimming Pool filters, pumps & purification equipment to Health & Safety standards
- ✓ Security & Intruder alarm systems with Close Circuit TeleVision (CCTV)
- ✓ Refrigerators, Freezers, Cold Stores for food & beverages to Health & Safety standards
- ✓ Temperature, humidity, flood, gas, smoke, earthquake, fire alarm & event monitoring

Control

- ✓ Site access for specified site engineers, door entry and security systems
- ✓ Performing stand-by generators testing
- ✓ Switching environmental and cooling systems depending upon the monitored temperature, humidity or associated parameters
- ✓ Switching off equipment during periods of low demand to reduce electrical costs or manage peak systems current demand to prevent service overload
- ✓ Providing temperature compensation for battery charge, extending battery life
- ✓ Automatic battery discharge testing, providing assured battery performance
- ✓ Preventing the necessity for engineering presence on site
- ✓ Non-essential load shedding to extend site operation during mains failure periods
- ✓ Battery re-charge management to inhibit capital cost investment

Site Information

- ✓ Full historical log of alarm conditions
- ✓ Results being available for in-depth analysis from the management centre
- ✓ Alarm trending to identify reoccurring and repetitive events