

Dexdyne remote monitoring and the Carbon Reduction Commitment (CRC)

The Problem

The CRC Energy Efficiency Scheme is a UK Government scheme designed to improve energy efficiency and cut carbon dioxide (CO₂) emissions in private and public sector organisations that are high users of energy.

CRC operates in phases. Phase 1 ran from April 2010 until the end of March 2014. We are now in phase 2 that runs from 1 April 2014 to 31 March 2019. This scheme affects any organization whose half-hourly metered consumption of electricity is 6000MWh.

<https://www.gov.uk/guidance/crc-energy-efficiency-scheme-qualification-and-registration>

Under CRC legislation, big consumers of electricity are obliged to:

- Collate information about its energy supplies.
- Submit a report about its energy supplies.
- Buy and surrender allowances equal to the CO₂ emissions it generated.
- Tell the Environment Agency about changes to its organisation that could affect its registration (designated changes).
- Keep records about its energy supplies and organisation in an evidence pack.

The Solution

- **Dexdyne 's DX3 Remote communications terminal (RCT)** can be deployed to help meet some of the legal obligations arising from CRC legislation by capturing and providing web access to remote historical data.
- The system is very suitable for sites with multiple meters with pulse outputs and/or half-hourly meters with Modbus RS485 connection. All utility pulses can be captured, scaled and stored.
- Where necessary (due to installation topology), our **RCT** can be deployed in conjunction with a local low frequency or Zigbee mesh network to capture pulses from multiple sources into a single GPRS-enabled **RCT** unit that links to **RCT Server** and **Dashboard**.

Key Features

- Support multiple meters from a single **DX3** unit.
- SMS/email alerts automatically sent.
- **Dashboard** charting function provides visual comparison of consumption.
- Data from multiple remote points is consolidated in a centralised SQL database, enabling analysis and reporting.
- Excel reports based on gathered data are regularly emailed directly to any device keeping you constantly informed.

RCT Dashboard services provide on-line real-time status of all monitored sites/meters. If any location is about to exceed its maximum agreed consumption target, then the system can indicate this on a custom status page, as well as send SMS and email alerts.

Benefits

Dexdyne RCT will:

- Reduce operational costs of collecting data while improving operation efficiency.
- Improve response time when set targets are exceeded.
- Schedule effective preventative maintenance increasing uptime.
- Increase customer satisfaction & confidence

