

## *Case Study: Remote monitoring and control of a widely dispersed estate of gensets*

Based in Ramsgate, UK, Cummins Energy Solution Business (**CESB**) is part of Cummins Inc., a Fortune 500 corporation and the world's largest manufacturer of diesel and gas powered engines.

CESB's Operations & Maintenance team is responsible for managing after-sales requirements, ensuring that CESB can support all their customers throughout their territory in Europe, the Middle East and Africa.

CESB needed a flexible, scalable and secure remote monitoring system that would address their requirements, including the facility to:

- see a consolidated view of their entire estate of genset from a single login;
- rapidly log large numbers of parameters;
- view the live performance of any one of their sites;
- compare and chart large numbers of parameters;
- carry out correlation analysis; and
- execute the remote start and stop of an asset.

Having considered other products on the market, CESB chose Dexdyne's remote management system (RMS) because it ticked the most boxes off-the-shelf for their requirements.

	me Down	and SMS Lists Event Log	Entity Managor Chart		oss in Stat	Po
Installation	Rating	Last Contact	Status	KW	Run Hrs	MWH
Palafolis	995	Today @ 16:57	ONLINE	1029	10453	10464
Nevens	1400	Today @ 17:12	ONLINE	1391	36733	50135
Hamerlinck	1400	Today @ 16:59	ONLINE	1401	22350	30580
Groentuin 2	1400	Today @ 17:00	ONLINE	1401	8927	14328
Patoma	2040	Today @ 17:06	ONLINE	1972	29688	58766
Pittors	2000	Today @ 17:17	ONLINE	2037	42219	18347
VGT 2	2000	Today @ 17:09	ONLINE	2030	35318	64383
VGT 1	2000	Today @ 17:09	ONLINE	2032	17767	35887
Snoeys	1400	Today @ 17:17	ONLINE	1394	39437	5477
Rutoma	2040	Today @ 17:10	ONLINE	2050	28644	57201
Frimley Park	1370	Today @ 17:10	ONLINE	1370	35151	43733
Lambrecht	2040	Today @ 17:18	ONLINE	2028	34697	3041
Den Breyn 3	2040	Today @ 17:05	ONLINE	2016	22080	44260
OTA Nigeria	1750	11-Jun-2012 @ 16:59	OFFLINE			
Vermeir	1400	30-Oct-2013 @ 22:29	OFFLINE	0	0	0
Daventry	2000	31-Aug-2012 @ 16:22	OFFLINE			
De Munck	2000	04-Jun-2014 @ 13:18	OFFLINE	0	0	0
Haagendoorn 2	2040	06-Aug-2014 @ 15:10	OFFLINE	1	15497	31032
GWE	2000	26-Jul-2012 @ 09:39	OFFLINE			
Romiley	1400	Today @ 17:20	WARNING	1396	28481	15709
Den Breyn 2	1400	Today @ 17:01	WARNING	1398	67874	17083220
Den Breyn 1	1400	Today @ 17:00	WARNING	1404	68253	17619276
Albury	1540	Today @ 17:15	WARNING	809	10625	9832
Varegro	2040	Today @ 17:16	STOPPED	0	29563	5 <mark>8301</mark>
Van de Waetere	1050	Today @ 17:01	STOPPED	0	60527	3168464

*Fig.1 - A Complete Overview of the Estate* 

Dexdyne rose to the challenge and, within six weeks of the initial agreement, provided a configured system for CESB to trial at a nearby hospital site. This successful trial led to CESB rolling out Dexdyne's RMS solution to all their sites in the UK, Belgium, Spain, Sweden and Nigeria.



Dexdyne's innovative web-based solution securely delivers detailed operating information about the generator sets in real time 24/7 to both engineering staff and management, wherever they happen to be. This real-time information also enables users to react rapidly to SMS alarms and other exceptions and thus helps to optimise the performance and efficiency of their operations.



Fig. 2.. Analysis using Charting

Dexdyne's RMS solution not only provides remote monitoring but also remote control (including restart) of generator sets. In addition to delivering very detailed real-time engineering data, it can also generate and deliver a higher level reports that business managers need to monitor, viz. historic power output, generator downtime, etc.

A1 × A B C D E Formula Bar G H I   2 Start Period 2014.08.04.00:00 Max Hrs 168 End Period 2014.08.11 00:00    4 Region Installation Rating Start Datestamp End Datestamp End Datestamp End MWh End MWh End MWh End MWh End Datestamp End MWh End Datestamp End MWh En		J K e Load State
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Fig. 3 – Example Report



The Dexdyne RMS solution is a fully scalable and customisable system, enabling multiple generators and multiple sites to be managed through a single dashboard to suit the operational needs of any organisation. In short, it makes it possible to manage a dispersed infrastructure efficiently and with ease. In terms of user architecture, there is no limit on the number of authorised users of the system. The RMS can be easily configured to enable any number of different authorised users within an organisation to have access to the information that is relevant to them only. The system has been further enhanced for CESB to allow failure event analysis by capturing rapidly changing pre- and postevent data.

Exhaust Temperatures												
		oC	oC									
	A1	60	56	B1		Average T	emp	61	oC			
	A2	63	59	B2		High Cyline	der/Temp	A7	71 OC			
	A3	64	60	B3		Low Cylind	ler/Temp	B1	56 OC			
	A4	63	59	B4								
	A5	62	62	B5								
	A6	61	60	B6								
	A7	71	56	В7								
	A8	59	56	B8								
	A9	8		B9								
Main	Gei	nset	Exhaust Temps	Alternator	Gas System	Engineer	Knock	CHP	Gen Aux	Plant Aux	Gas De-Rate	Setup

Fig. 4 – Visibility of live site

"We are now using Dexdyne's RMS system successfully at several of our UK and international locations. It makes it much easier to manage multiple engines", said Will Stumpf, Aftermarket & Strategic Project Leader at CESB. "The Dexdyne Enterprise dashboard is intuitive and helps us support our customers better and keep our engines operating at peak performance without needing somebody on site all the time."

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