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The Network Management System Update and How This Impacts You

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- Overview
- What is changing in the industry
- CRMS vs. NMS
- Key Changes
- What does this mean?
- Next Steps
- Questions

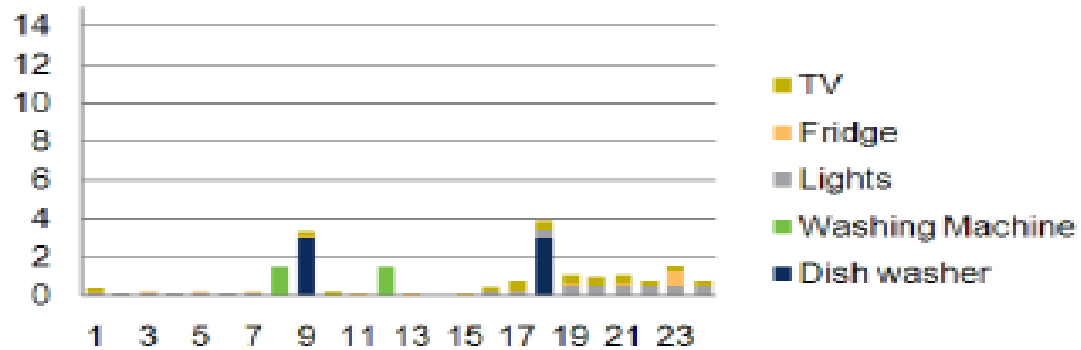


- Following our ICP Workshop in January this webinar will provide a further information on how NMS will interact with connection projects.
- Introduction of NMS will require minor changes to ENWL processes for connection to its network.
- The webinar will highlight any impacts to connection processes.
- Please provide feedback and we will issue a further update/communication enabling all ICPs to adhere to the new process.

What is changing in the industry?



Domestic demand profile 2012



Domestic demand profile 2025

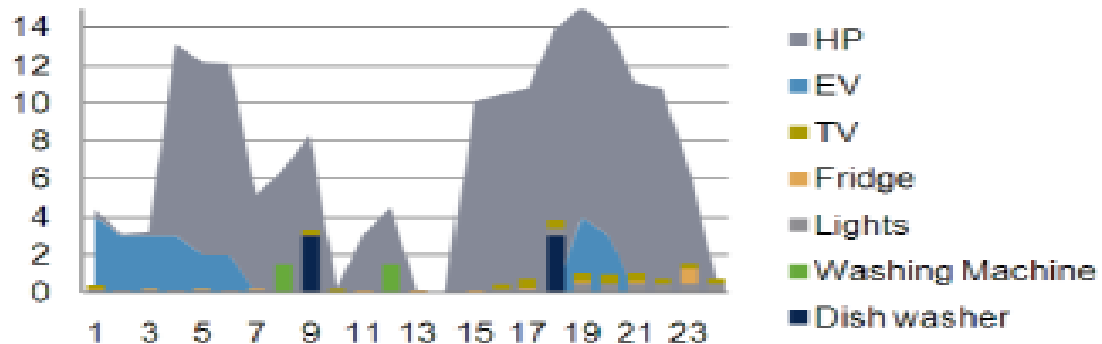
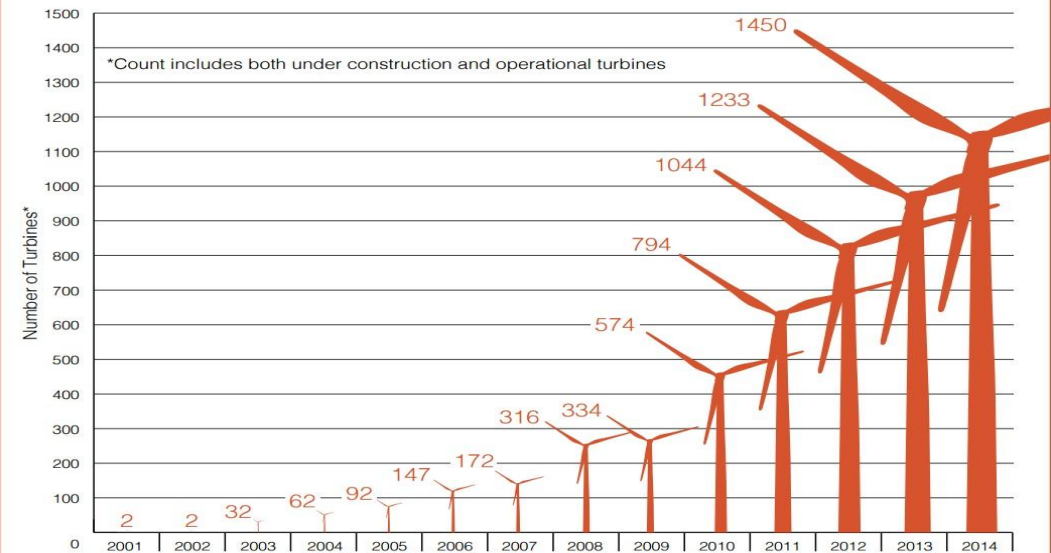


Figure 1: Growth in offshore wind turbine numbers in UK waters



- In less than ten years time the level of domestic consumption is predicted to soar
- Traditional demand profiles will change significantly



CRMS

Our Control Room Management System, was purpose built to manage a more static distribution network.

Technology has improved

Nearing obsolescence, ageing, reaching its capability limits.

Higher level of IT security required due to the changing nature of interactivity in distribution networks.

In a world of more interactive networks, better load and connectivity information is required. Capable of interacting with new data sources, e.g. smart meters.

Enables us to continually innovate

Fully interactive electrical model giving real time control and feedback

Integrates low carbon technology, including 2.5m smart meters, to enable a smart network.

Will deliver improvements in customer service, by reducing customer interruptions & minutes lost

NMS

Our new Network Management System, is purpose built to deliver for changing network requirements

Key changes



← Planning stage pre job →

Pre-laid

- As-planned work
- Required for the following voltages.
 - HV
 - LV Mains
 - LV Services (as-laid only)
- Defines what the network will look like after completion.
- Should include geographical drawing.
- This is in addition to the as-laid process.

Outage Planning Tool

- All HV and LV planned work must be scheduled via Outage Planning Tool (POUT)
- This generates a work request for NMS and provides information real time to allow the diagram to be updated.
- Additional information will be provided with who to contact and when in the near future.

← Day of works →

Communication

- NMS requires a real time update from site at the time of the work commencing.
- This will place the Pre-laid onto the electrical network model and allow works to proceed.
- This is imperative for any mains connections onto ENWL network.
- Additional information will be provided with who to contact and when in the near future.

What does this mean?



- What is affected
 - HV – all schemes
 - LV – Any jointing to connect extension assets on to a mains cable
- What isn't affected
 - Unmetered – this will just follow the normal as-laid processes
 - Service connections – these will need to be shown on the pre-laid that is submitted with the mains extension
- Planning stage
 - Connection process is remaining as per current process
 - Pre-lays required
 - Can be design drawing
 - Requires any phasing of development
 - Needs to be geographical
 - Needs to show all electrical connectivity (even on future phases)

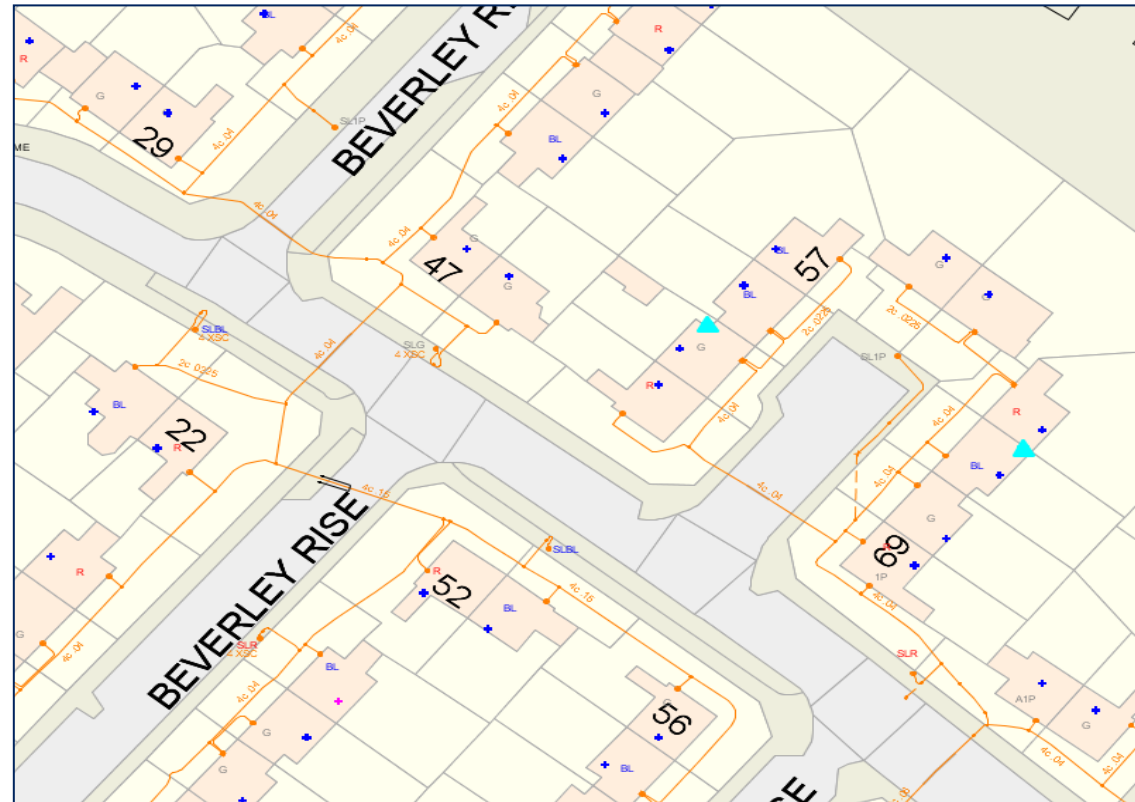
What does this mean?

- Information required prior to actual jointing activity
 - Minimum 7 days prior to jointing activity
 - System Amendment Record (SAR) pack to be submitted
 - Will consist of a few sections
 - Front Page
 - Network before connection
 - Network after connection
- Front Page

electricity northwest		SYSTEM AMENDMENT REQUEST (SAR)	
SWP/PROG No:		SATS NUMBER	
COST CODE / PROJECT No:		DATE OF WORK	
AMENDMENT DETAILS			
SUBSTATION NAME		PLANT REF	
DESCRIPTION OF WORK		VOLTAGE	
		AREA	
YOUR DETAILS			
NAME		PHONE No	
DEPOT		FAX No	
DATA MANAGEMENT DOCUMENTS			
DIAGRAM AMENDMENT	DOC01A	WOODPOLE INFO	DOC09
DIAGRAM AMENDMENT 'BEFORE'	DOC01B	GAP - BATTERY & CHARGER	DOC10
DIAGRAM AMENDMENT 'AFTER'	DOC01C	GAP - TX	DOC11A
SITE / SUBSTATION	DOC02	GAP - AUX/TS	DOC11B
EXTENSIBLE / POLE SWITCHGEAR	DOC03	GAP - TS COOLER / TAP CHANGER & SITE EARTHING	DOC12
NON EXTENSIBLE SWITCHGEAR	DOC04	GAP - TENER	DOC13
DISTRIBUTION TRANSFORMER	DOC05	GAP - BUSBAR & FAULT THROWER	DOC14
LV EQUIPMENT	DOC06	GAP - DNNIS TECHNICAL DATA	DOC15
DECOMMISSIONING	DOC07	GAP - PROTECTION SETTINGS	DOC16
OVERHEAD LINE	DOC08	PRE-COMMISSIONING AUDIT	PRE-COMM
OUR DETAILS		SATS:	
POST	ELECTRICITY NORTH WEST DATA MANAGEMENT 1TH FLOOR, LINLEY HOUSE DICKINSON ST MANCHESTER, M1 4LF	E-MAIL	datamanagement@smc@enwl.co.uk
		FAX	0161 247 0112 (INT 70112) OR 0161 247 0124 (INT 70124)
VALIDATION			
SIGNED INITIATING ENGINEER		DATE	
SIGNED DATA MANAGEMENT		DATE	
SIGNED CONTROL ENGINEER		DATE	

A decorative graphic at the bottom of the page featuring stylized white icons of buildings and power lines against a background of diagonal stripes in dark blue, green, and grey.

- Network before connection



What does this mean?

- Network after connection



What does this mean?



- Day of network connection
 - HV
 - As existing process
 - LV
 - Call Hub Tech before jointing commences
 - Hub Tech will load network patch to show new network connectivity – left in a “dead” state
 - Call Hub Tech after jointing finished
 - Hub Tech will make new network extension assets “live” on system



- Next steps
 - SAR pack to be produced and issued to ICPs
 - Undertake trial with two/three ICPs to gain feedback – Any volunteers??
 - Review feedback
- Implementation
 - ICP trial approx October 2019
 - Full implementation approx Jan 2019

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Questions

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