

Smart Meter Hardware Development

Nick Merricks Salford Smart Meters 2019 Conference

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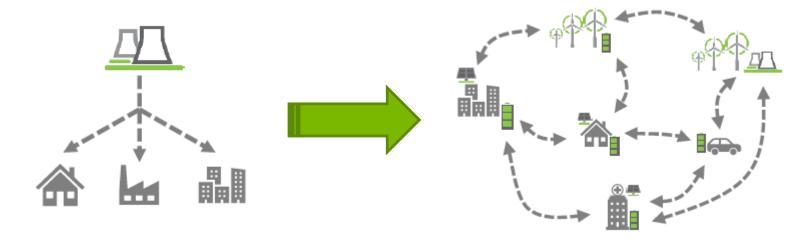


- What do today's smart meters look like?
- What do tomorrow's intelligent devices look like?
- How do these intelligent devices fit into the future energy system?



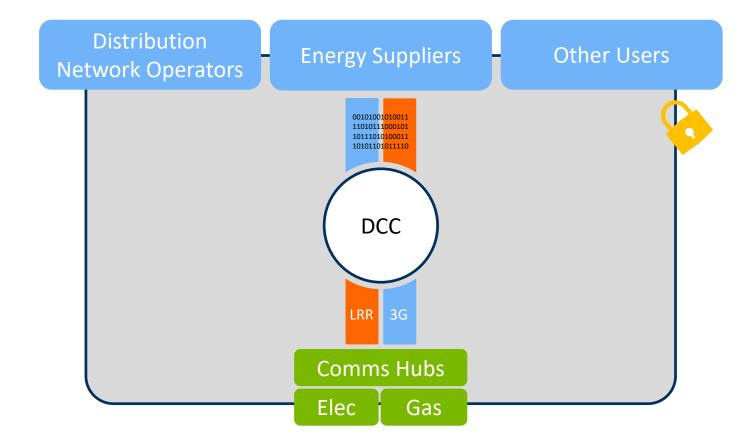
Traditional power grid

Decentralised power grid



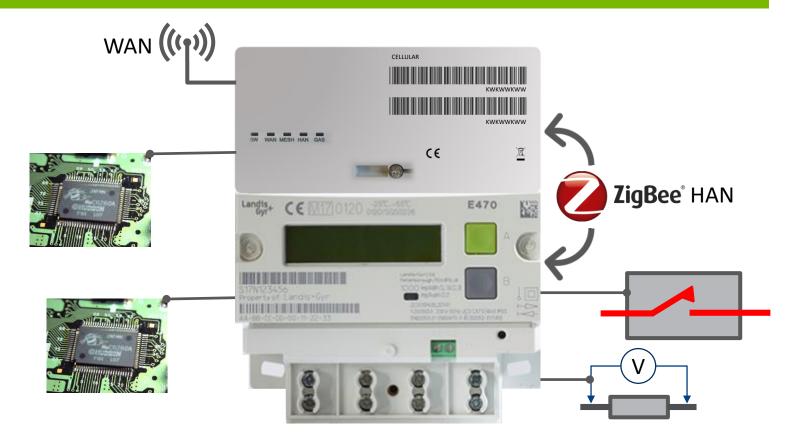
The GB Smart Meter System: SMETS2





Smart Meter Hardware





Smart functionality

ToU tariffs

- Secure change of supplier
- Full prepayment capability
- Instantaneous energy readings
- Power quality data



Smart charging with intelligent devices



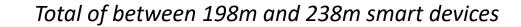


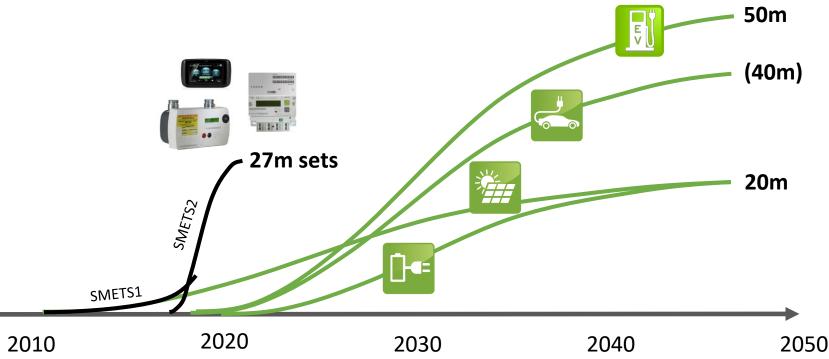
Microgeneration with intelligent devices









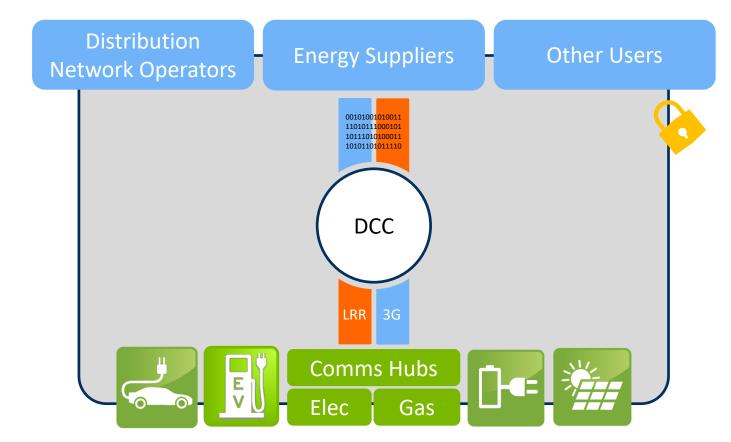


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Number of installations

The future energy system: Grid edge intelligence





Smart module for intelligent devices

- Software with optional hardware
- Plug-in module for secure, smart connectivity
- Integrates into EVs, smart chargers, solar PV and home batteries

SMETS-ready



How do we proceed?



- UK has invested in a smart meter system which is:
 - Secure
 - Capable
 - Extensible
- We need to build on this secure platform...
- ...to bring the future energy system to life
- Get involved nick.merricks@landisgyr.com