Name and Qualifications (where relevant)

Mike Calviou
Director, Transmission Network Services

Knowledge and Expertise

In my role I am responsible for directing the development of the immediate and wider transmission network strategy across electricity (and gas) creating a specification of future network capability and operability. I am also the lead on commercial issues, customer and stakeholder management and the development of industry codes.

I have had a number of senior roles in National Grid related to both the 'asset owner' aspects of Transmission and the 'system operator' role. I have been involved with developing demand side solutions (e.g. for system balancing) as well as the deployment of innovative new technologies.

As the SO (NETSO) and a TO of electricity Transmission, NG will be impacted by, and be a practitioner of smart grid technologies and systems. The SO perspective is important in helping ensure that solutions are optimum in aggregate for the whole electricity network and supply chain. The TO investment programme includes Smart Transmission solutions such as embedded HVDC links, dynamic circuit ratings, wide area monitoring and automation & control to manage the network. I am keen to ensure that the Smart Grid Forum takes an integrated view of smart energy system solutions.

Current organisation

National Grid

Key interests

- Future scenarios for energy networks (amount of intermittent generation, EV demand, interconnection, storage etc.) that provide the need case for smart solutions.
- Common vision and set of assumptions about the challenges, their respective time scales and volumes (e.g. EVs, heat pumps, DG and DSR). How do we arrive at a range of outcomes we can take forward across the entire energy system?
- Smart asset solutions to network challenges.
- Integrated smart energy system solutions across the entire energy supply chain (e.g. generation, transmission, system operation, distribution, supply and consumption). e.g. EV charging regimes and infrastructure, peak heat energy delivery and interaction and optimisation with gas networks.