



**Client** Energy Networks Australia

### Client Need

The Network Transformation Roadmap in Australia sets out the actions necessary to prepare the grid such that it is fit for purpose in ten years' time. As part of this, EA Technology was commissioned to describe the future operating platform for the grid under four future scenarios.

### Our Approach

We recommended an SGAM approach to Energy Networks Australia such that the key actions and relationships could be visualised at all levels, from component through to business layers. This approach was welcomed and hence we created a high-level SGAM for each of the future world scenarios. For each scenario, we considered the key actors and how they would interact with each other. By understanding the extent to which the role of such actors will change from today, and examining which roles and interactions are most prevalent across the four scenarios, it was possible to establish a least regrets pathway for the next ten years.

### Benefits

The key benefits of this approach were the ability to demonstrate in a highly visual manner the changes that would be necessary to facilitate one of the four future worlds in comparison to today's electricity system. By understanding the key interactions across all four scenarios, areas of commonality were drawn out, thus providing a pathway of least regrets for the initial period, until such time as the scenarios diverge due to specific trigger points.

This then fed into the development of an Innovation Strategy for Australian networks, allowing the necessary gaps to be filled and ensuring that progress along the transition pathway could be achieved.

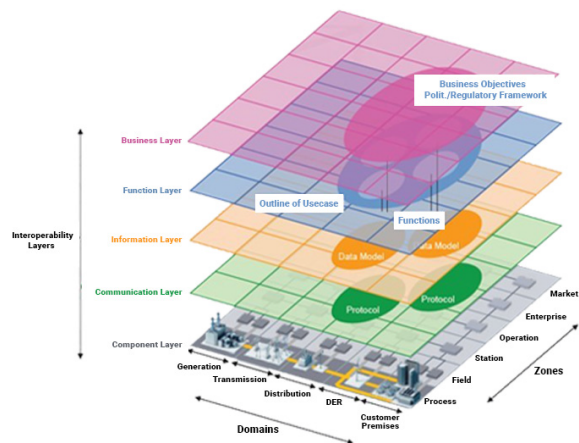
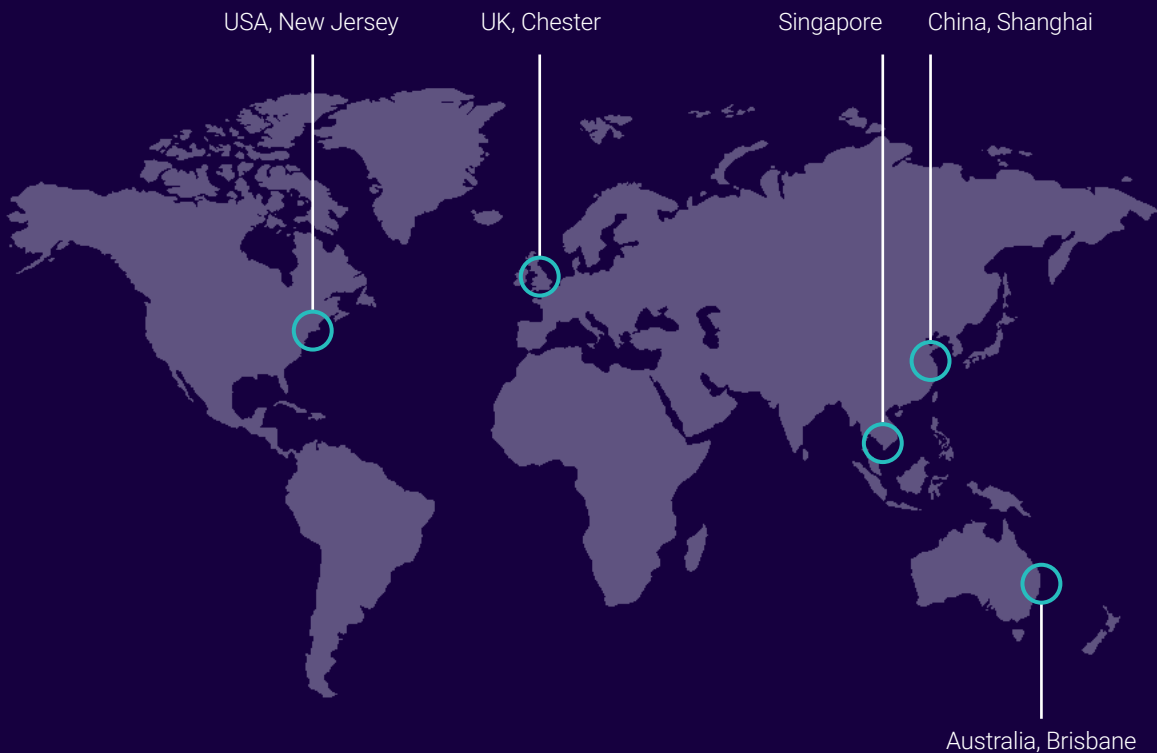


FIGURE 1. FIGURE TAKEN FROM "SMART GRID REFERENCE" ARCHITECTURE, "CEN-CENELEC-ETSI SMART GRID COORDINATION GROUP, NOV 2021.

# Global Footprint

At EA Technology we specialise in asset management solutions for owners and operators of power network assets.



**Founded in 1966 we have over 50 years' experience in the industry and 6 regional offices around the world to support our global customer base.**

We work with a lot of our clients on a long-term basis to help them safeguard their power networks.

We advise our clients on strategy and implementation of a range of technology solutions to manage power assets, delivering maximum life and minimise cost.



Safer, Stronger, Smarter Networks

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