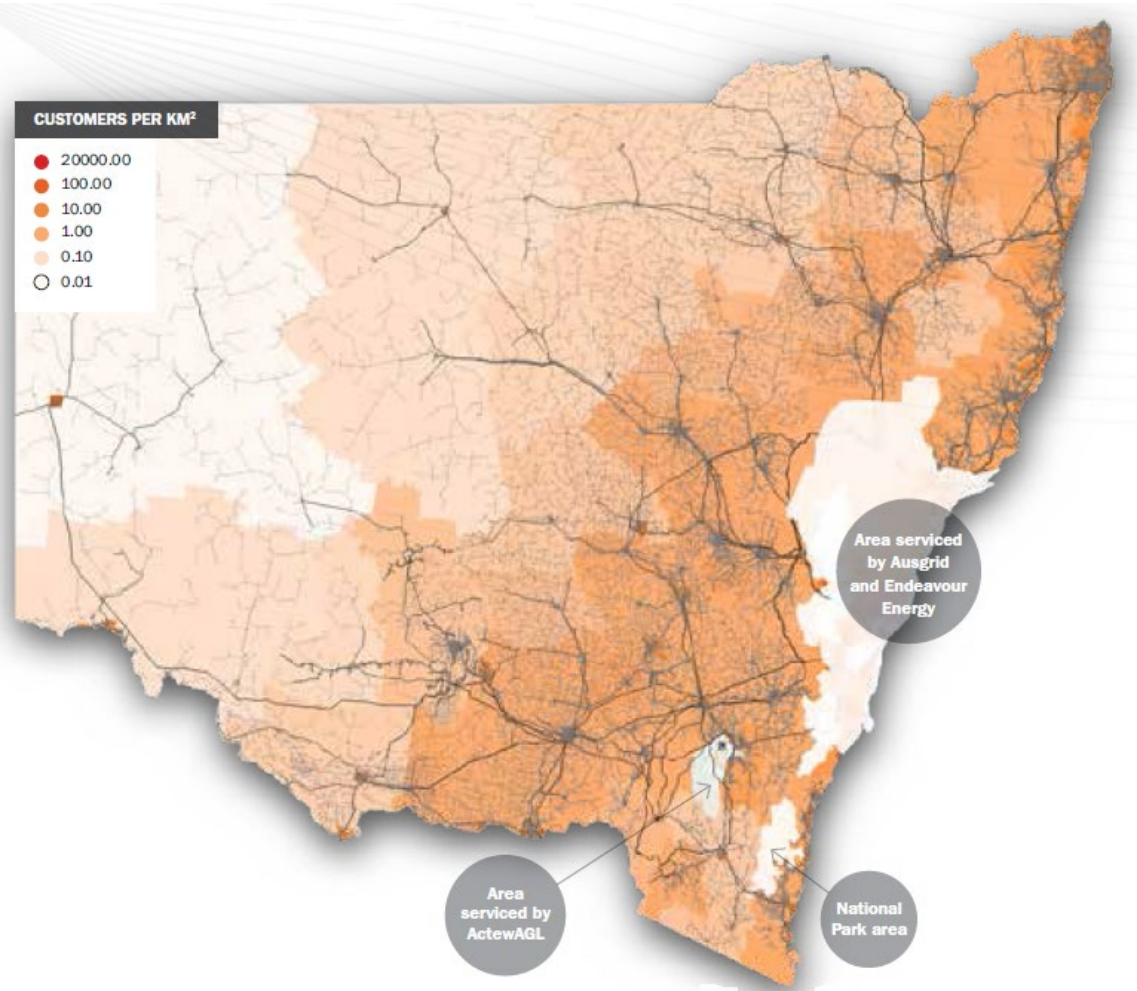











ECA Foresighting Forum

Using Network Economics to balance customer, business and engineering outcomes

Joshua Harvey, Essential Energy
21 February 2019

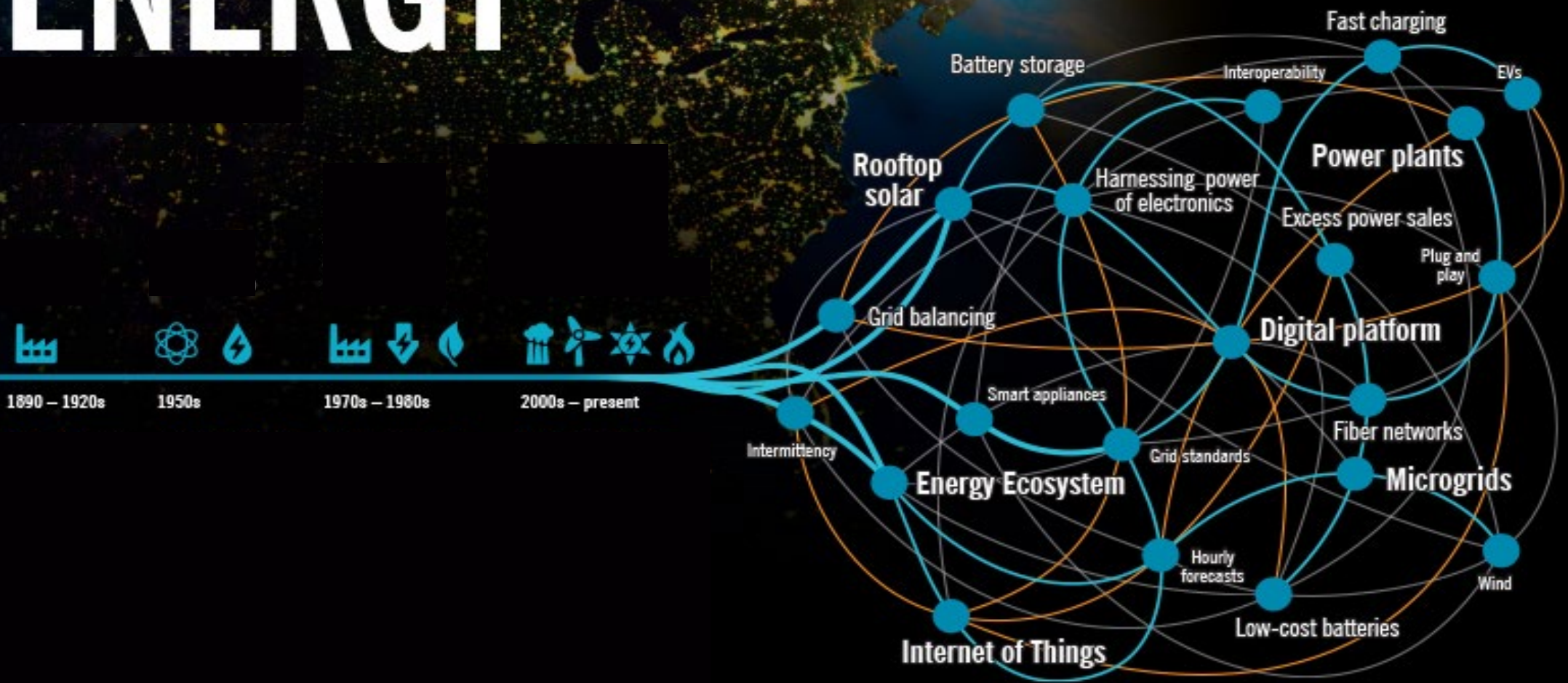
One of Australia's largest distribution networks



 <p>1,381,758 Power poles – which equates to 1.6 power poles for every customer</p>	 <p>1,442 powerlines with 10 that are longer than 1,000km the longest spanning 1,905km</p>	 <p>95% of NSW and parts of southern Queensland</p>
 <p>377 Zone substations and 140,000 distribution substations</p>	 <p>36 years average age of network assets</p>	 <p>737,000 square kilometres of network</p>
 <p>183,612 km of overhead powerlines – equivalent to driving around Australia 13 times</p>	 <p>4.6 customers to fund every 1km of overhead powerlines</p>	 <p>>840,000 customers</p>

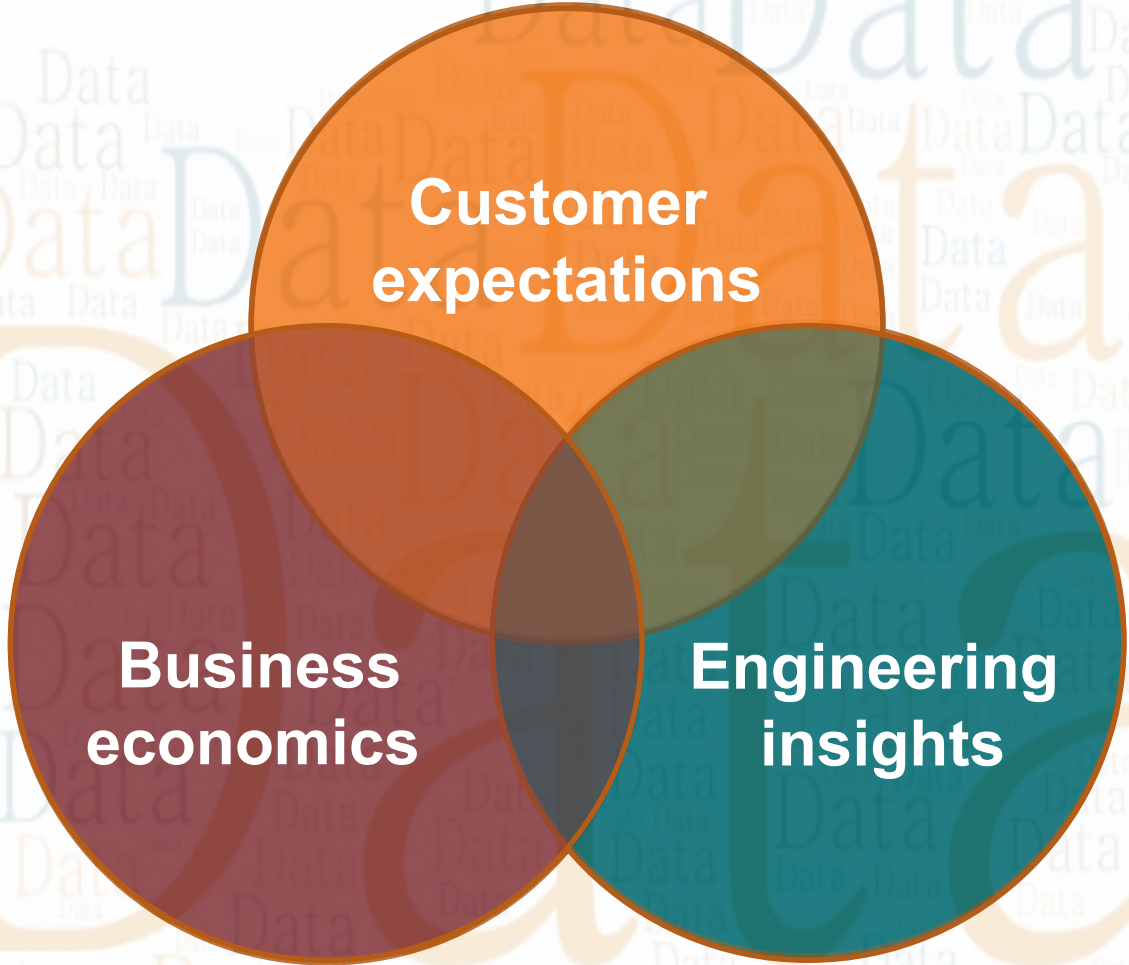
the EVOLUTION of ENERGY

NEXT 25 YEARS



Source: Duke Energy Evolution of Energy Infographic

Network economics



Discussion

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