



Sustainable Practices towards Net Zero Utilities

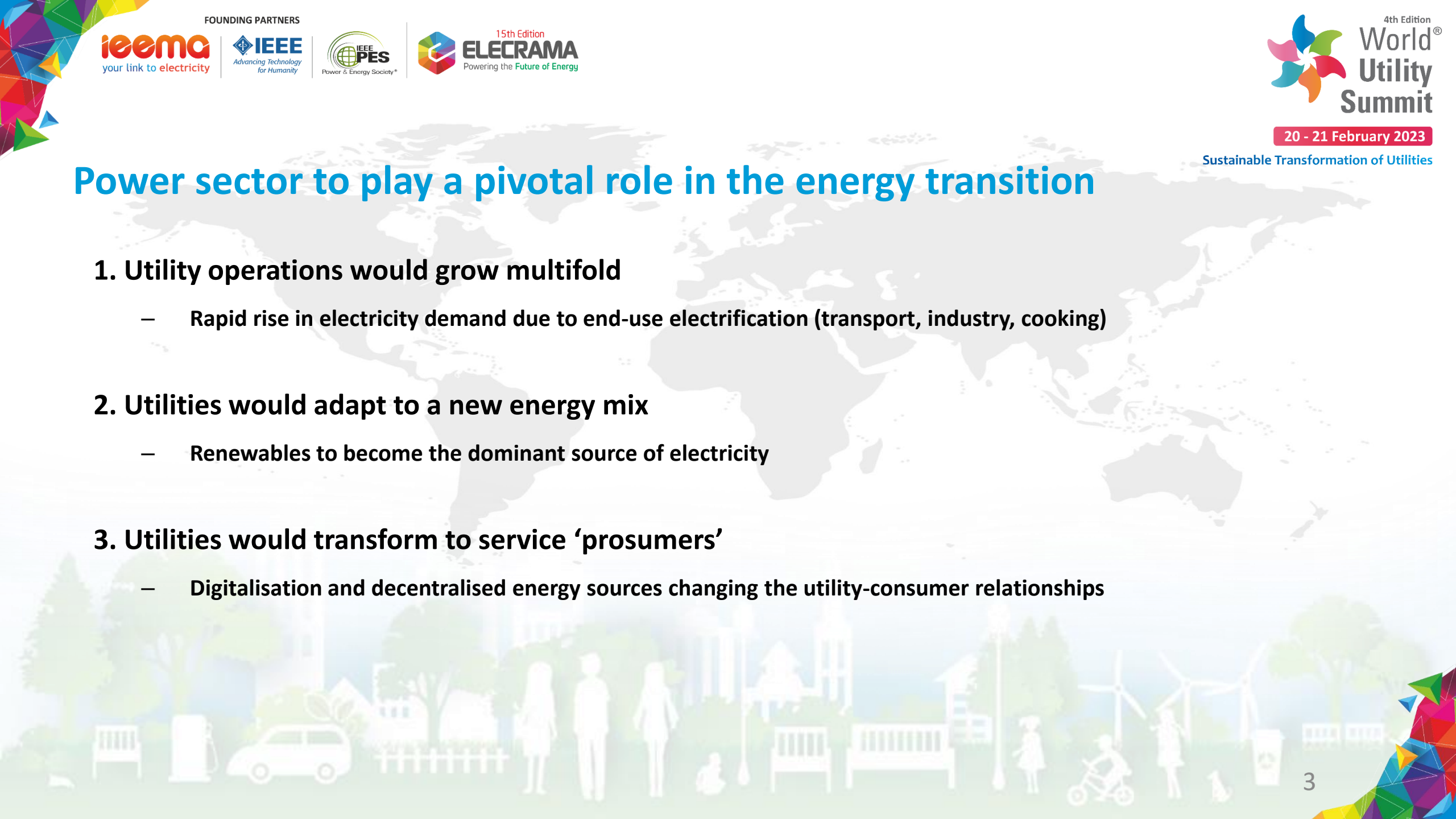
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Net Zero commitments: Driving sustainability in utilities

- **Net Zero emissions: anthropogenic emissions = emissions absorbed by sinks**
- **140 countries have announced/considering net zero targets**
- **2070 – India's net zero target**



Power sector to play a pivotal role in the energy transition

1. Utility operations would grow multifold

- Rapid rise in electricity demand due to end-use electrification (transport, industry, cooking)

2. Utilities would adapt to a new energy mix

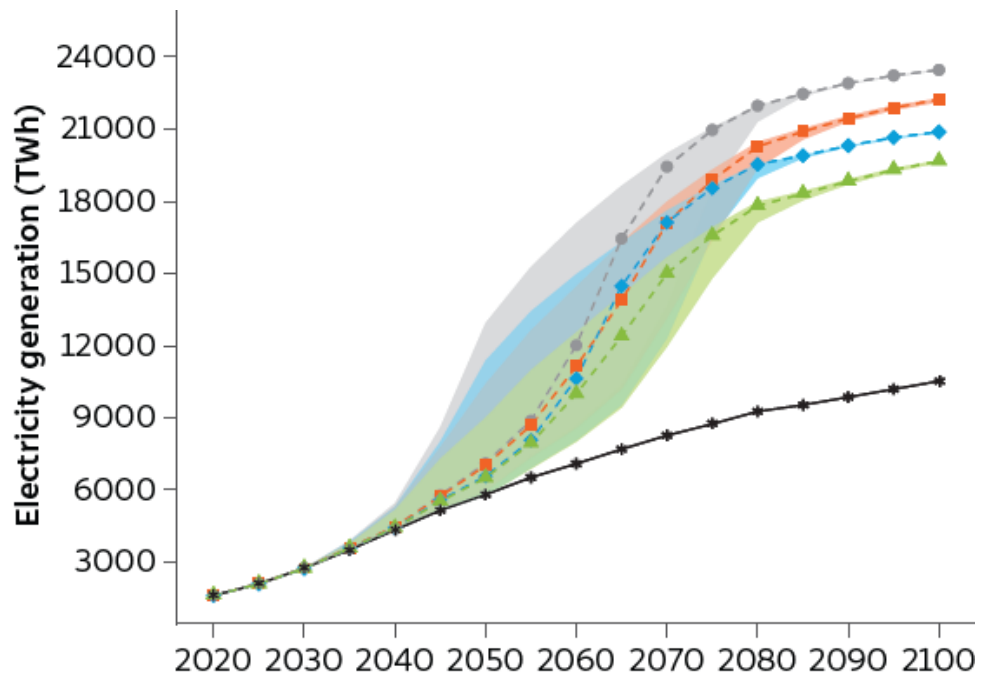
- Renewables to become the dominant source of electricity

3. Utilities would transform to service ‘prosumers’

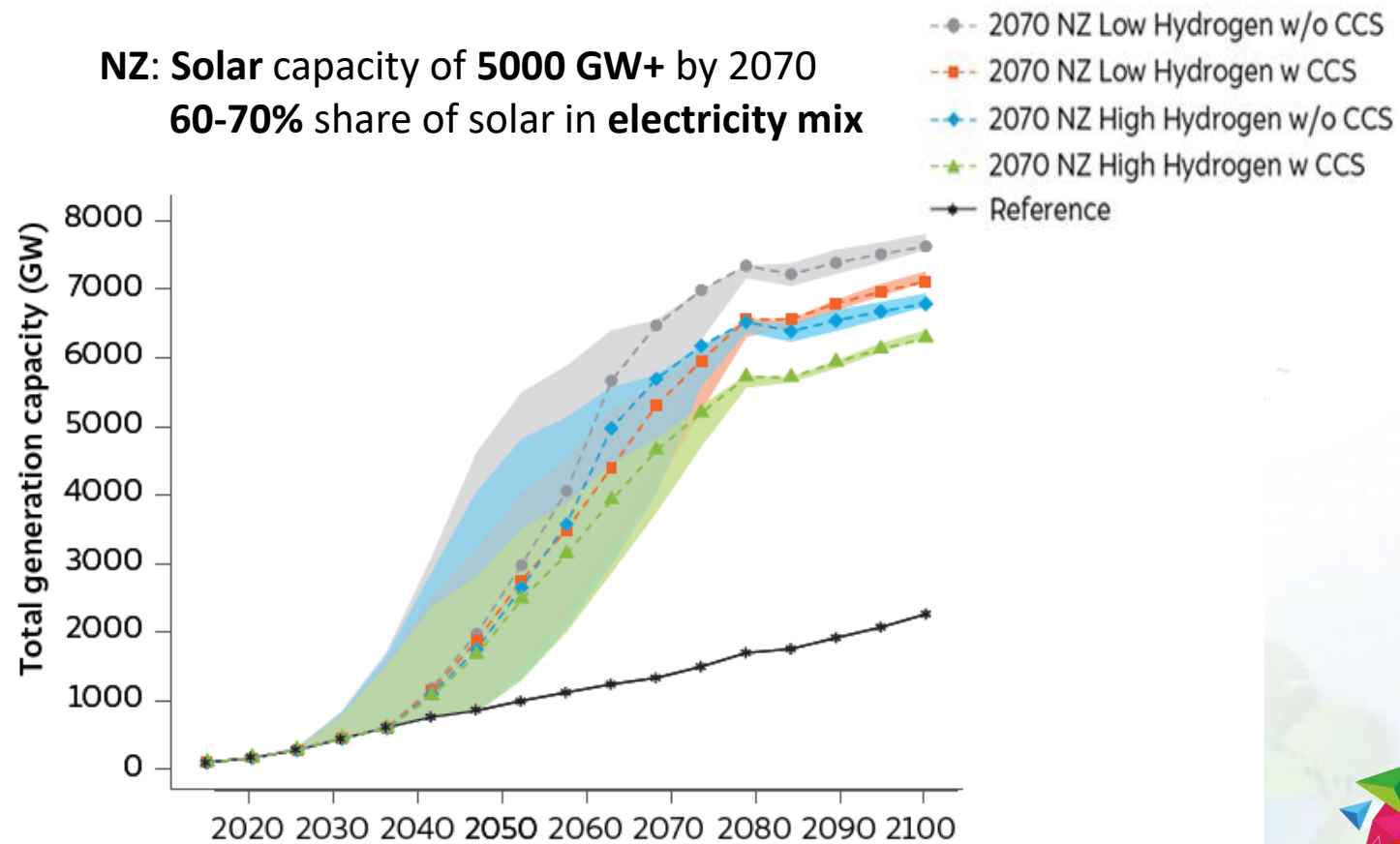
- Digitalisation and decentralised energy sources changing the utility-consumer relationships

India's Net Zero Future and its implications for India's Power sector

BAU: Electricity demand grows **6x** by 2070
NZ : Electricity demand grows **12x** by 2070



NZ: Solar capacity of **5000 GW+** by 2070
60-70% share of solar in **electricity mix**



Source: Chaturvedi and Malyan, 2021/CEEW



Thank You

For discussions/suggestions/queries email: shalu.agrawal@ceew.in

