

# A distributed energy future – considerations for technology & policy

## Disruption without destruction

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*good works*

# A distributed energy future – considerations for technology & policy

- Market is becoming less homogenous – moving from traditional to transforming to transformed market
- Much of this is being driven through “market lead” approach to the distributed products and services
- **Raises many questions** ..... Fundamentally
- We don't all have an equal **opportunity** to participate in new energy future
- And cost and benefits will be reallocated raises Issues of societal vs community vs individual

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- **Distributed energy planning** who says yes or no (eg PV etc) do we need one – how is safety monitored and enforced
- **Design** – makes a difference, current network, part of the network (local Gov) or opting out of the network (hollowing out)
- **Market relationship** Trading relationships informal or traditional market participants individual or aggregated or a bit of both

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- **Pricing** Retail pricing - postage stamp vs zonal or nodal
  - Distribution pricing postage stamp, zonal or nodal (who wins who loses how's this fit within regulatory framework / TSS)
  - Generation pricing for Distribution network use 6.1.4
  - Generation payments – how is price set (regulation, market, other)
- issues of **complexity and consumer ability** to make informed choices

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- **Production obligations** as we become more connected as producers and consumers do we need to have a clearer set of guidelines/ rules on production obligations (security, reliability and safety)
- **Reliability / Security standards** are they different - if so how its arrived - who makes these decisions – within distributed grid may have different reliability experiences based on appliances they hold battery and choose for broader lower standard impacting others etc

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- Supports ....
- **Do we need to adjust Concessions** so they are they fit for purpose /durable and meaningful (fixed vs variable)
- **Appropriate consumer protection** – protections same for everyone OR is it an embedded network type approach - NECF, ACL
- **Ombudsman schemes** nature and scope of dispute is very different (conversations about continuous supply)
- **Complementary measures** – what do we do with things like FIT – should this apply to batteries injecting - In US no as cant ensure from renewable energy

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- **Supports for communities** as generation source changes (Latrobe valley)
- **Supports for individuals and communities** that are being left behind – those in public housing – need targeted programs, rebates and other incentives
- ..... fundamentally distributed energy present challenges and opportunities getting the setting right with appropriate supports will underpin the transition