

Storing renewable energy in homes and communities

Agenda

Keynote: Prof. Peta Ashworth (University of Queensland)

Ray Arrell (Regen)

Patrick Devine-Wright (University of Exeter/ECOE)

Fuad Al-Tawil (TECS/ECOE)

Q and A



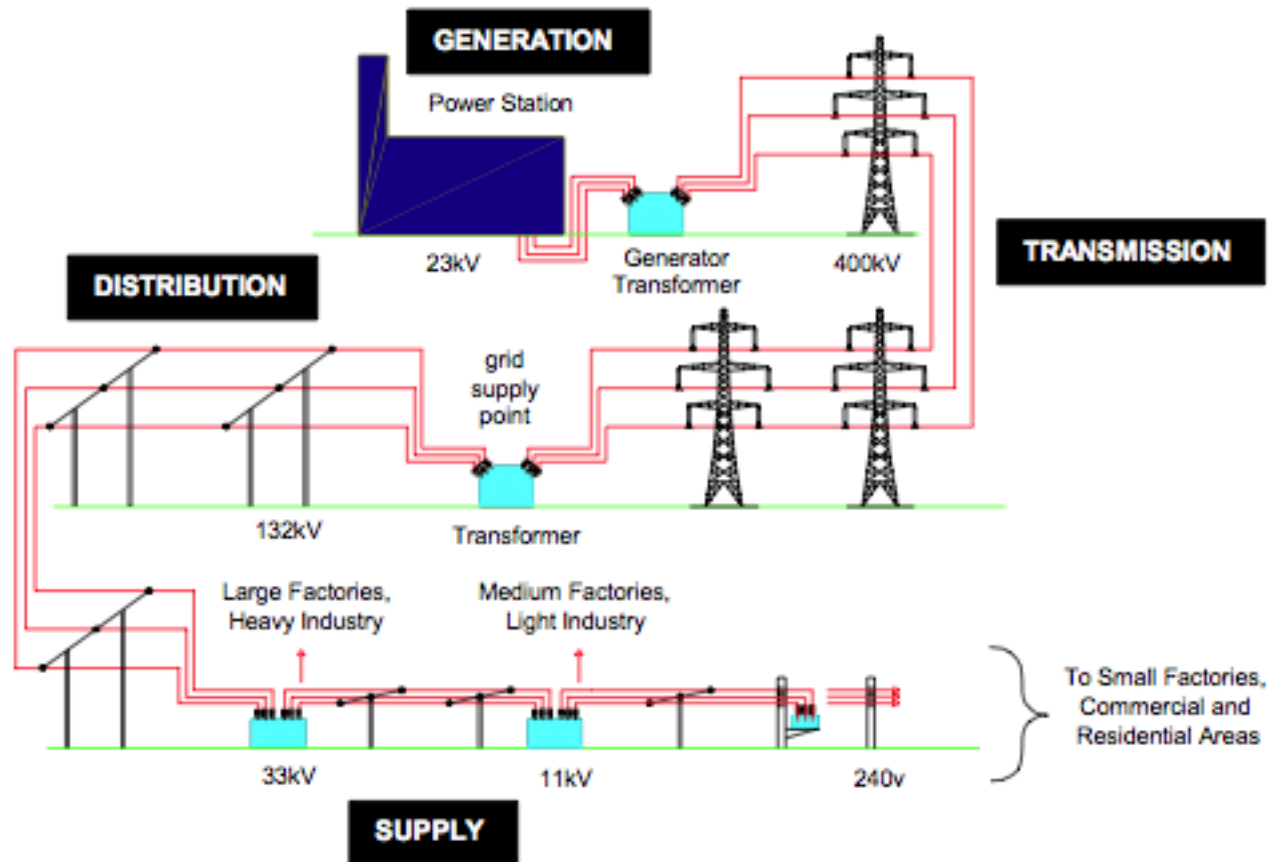
Energy storage and energy citizenship

Patrick Devine-Wright

University of Exeter/ECOE seminar

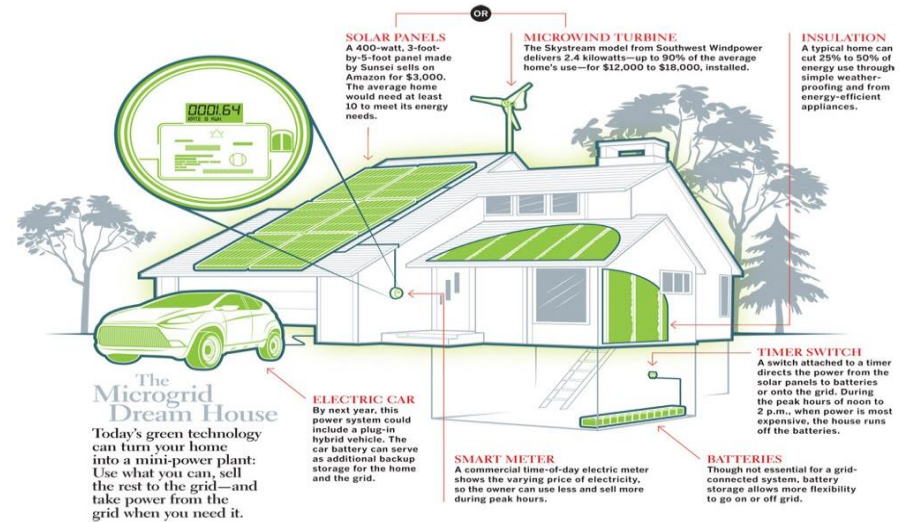
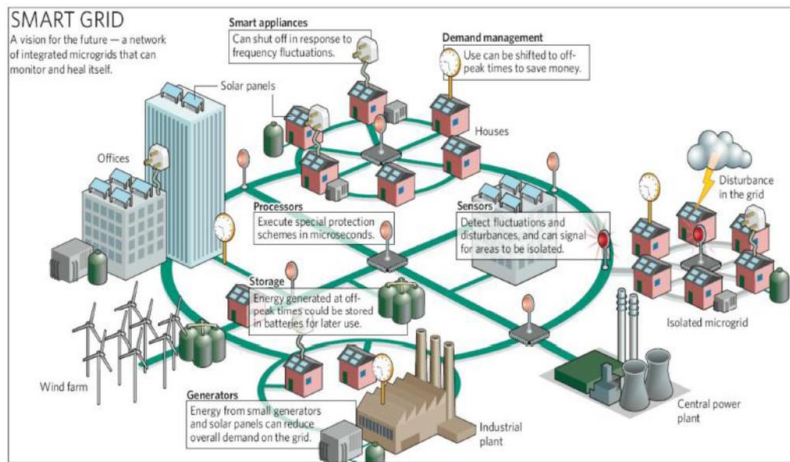
April 12th 2018

Centralised electricity supply



*Individuals and communities at the end of a very long pipe ...
- Active roles? Autonomy? Control? Trust?*

Future grids – decarbonised, decentralised *and democratised?*

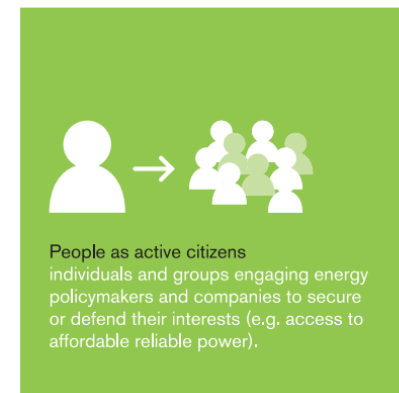
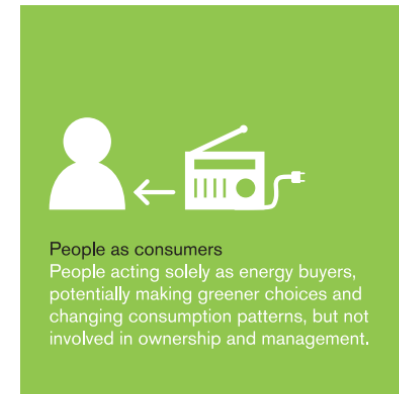
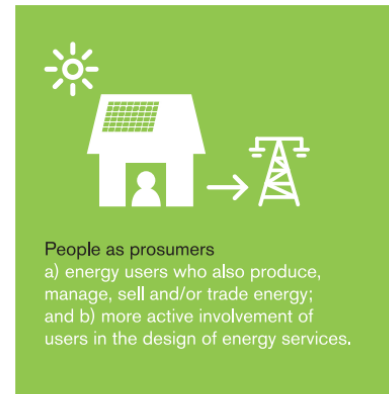


Source: Marris (2008)

Source:
<http://austinspc.com/2011/04/10/what-is-a-microgrid/>

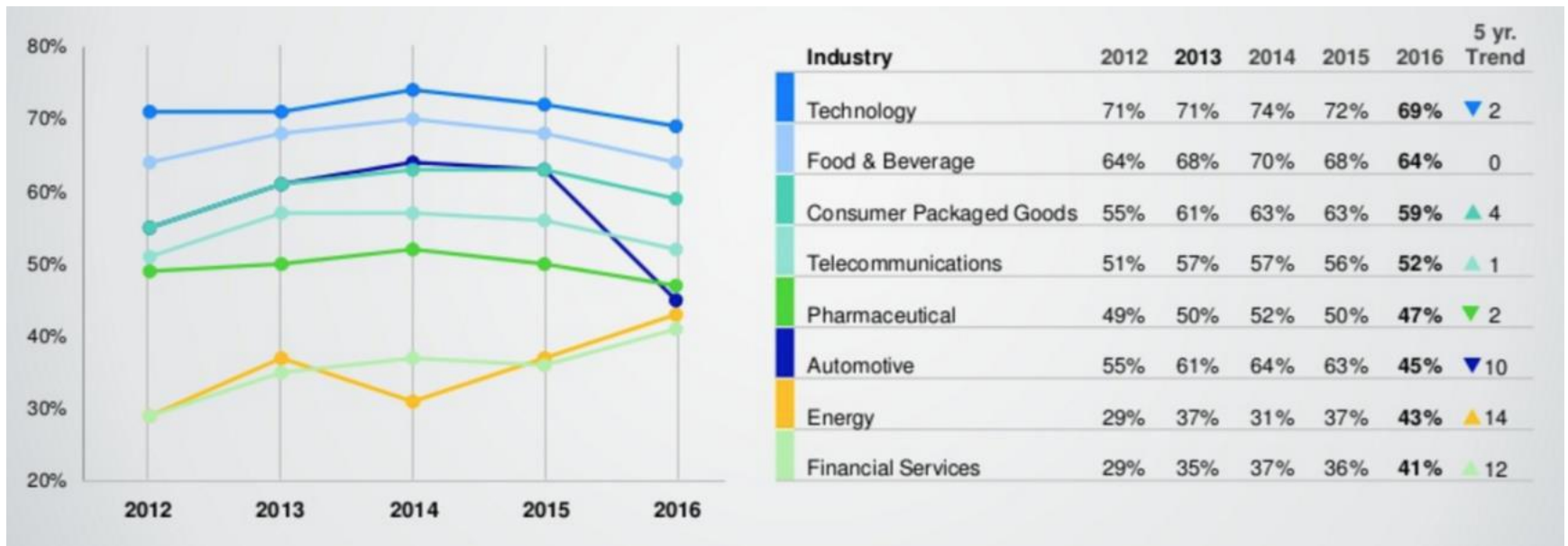
Energy citizenship (Devine-Wright, 2007)

- Characteristic of an individual or group that is 'switched on' or engaged with energy issues and energy systems
- Emphasises energy awareness, literacy, rights and responsibilities (e.g. for climate change) and action (e.g. acts of consumption, production)
- For example, becoming a 'prosumer' (e.g. solar PV), installing storage, investing in energy cooperatives, getting involved in setting up and running a community energy project



Source: Hoggett
2017

Public Trust in Technology Sectors



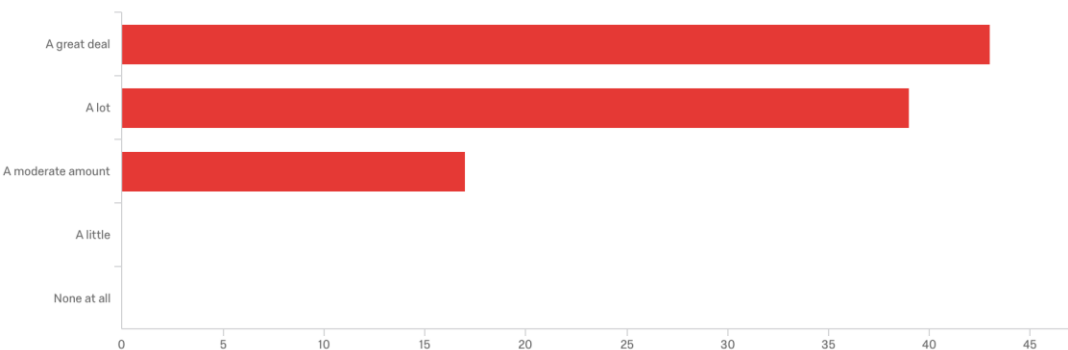
- Edelman annual trust barometer (Hoggett, 2017)

Intentional invisibility

- For **Distribution Network Operators** ‘high level’ engagement with the ‘general public’ was seen as undesirable due to licensing obligations, regulation of network operators, the ubiquity of electricity and the *invisibility* of the network:
- *“Ofgem in many ways are the proxy for consumers in general ... They’ve made it clear that they don’t want, well they’re not really interested in DNOs doing that kind of thing (strategic public engagement)... they are interested in us talking to stakeholders that they’re not engaging with”* (DNO interviewee)
- Cotton and Devine-Wright (2010)

Community energy as enabling energy storage and wider system change?

Trust in Exeter Community Energy



Professionalism:

Everything has seemed to run smoothly, I have been kept informed throughout the process ECOE seem to be professional in the way they go about things.

No hippies.

Quite simply, it seems to be a well led, dynamic organisation which is fulfilling its projected aims.

Adding democratization?

- Participation
- Decision-making
- Social equity
- Trust

Thank you

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