APSE Renewables and Climate Change Advisory Group, Wednesday, 24 September 2014, Manchester



Can local authorities be energy utilities?

Mark Bramah, Director of APSE Energy



1. BACKGROUND

www.apse.org.uk

APSE Energy - Our Vision



"The vision is to form an effective collaboration of a large number of local authorities to enable and facilitate the local municipalisation of energy services. By this we mean the public and community, as well as private, ownership and managerial control of local energy generation, distribution networks and delivery of energy efficiency works. Local authorities working together in this way would have great influence and would be able to deliver economies of scale in green energy to promote economic growth and combat fuel poverty."

The Holy Grail





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History of the Energy Market

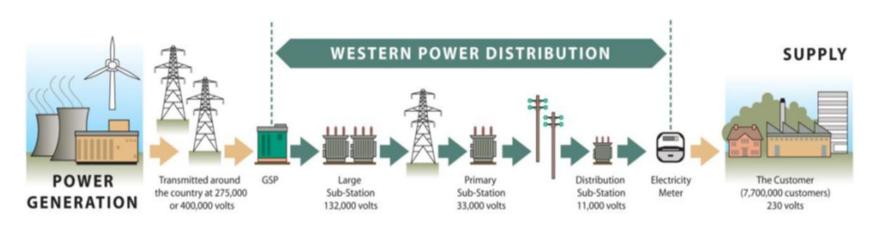


Source: OVO Energy White paper April 2014

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The Energy Industry in the U.K.





Energy suppliers generate electricity or import gas to sell to customers

- Competitive
- Prices not heavily regulated
- Own mostly generation assets
- The "Big Six" supply both electricity and gas

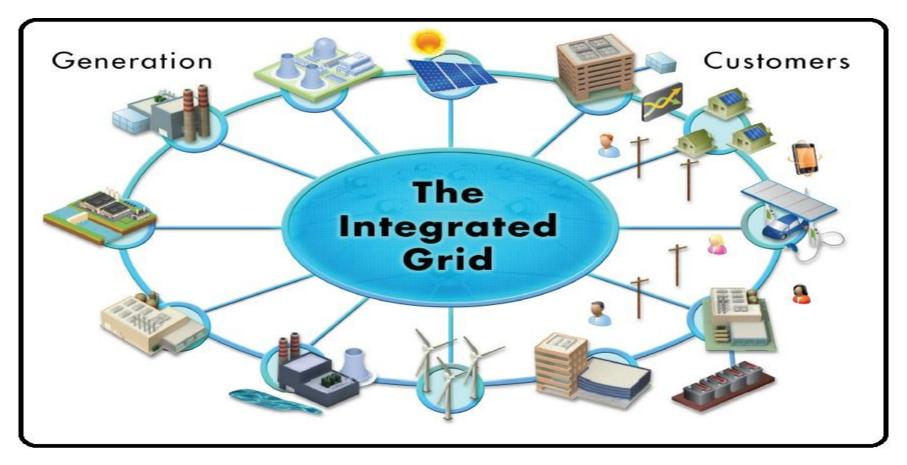
Transmission operators move electricity over long distances at high voltages or gas at high pressures

- Regional monopolies
- Electricity: National Grid Electricity Transmission
- Gas: National Grid

Distribution Network Operators (DNOs) own the infrastructure that move electricity at medium voltages from transmission networks to consumer premises.

The way the grid might look in the future



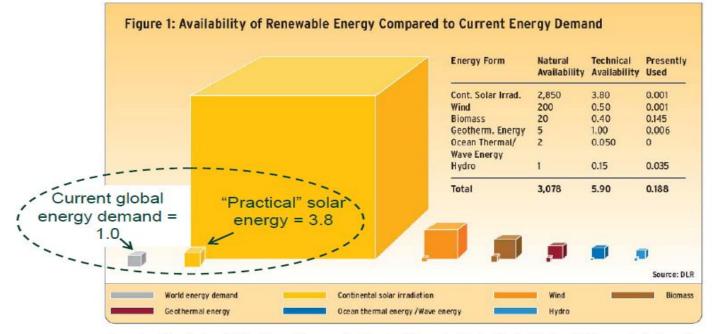


Source: The integrated grid: Realizing the full value of central & distributed resources, EPRI, Feb 2014

Availability of Solar Energy



Solar is the most abundant of all renewable energy sources



Rear cubes: The natural availability of renewable energy is extraordinarily large. Front cubes: The technically available energy in the form of electricity, heat and chemical energy carriers exceeds the present-day energy demand (grey cube, left) by a factor of six.

Solar energy can supply almost 4 times total current global energy demand (including only solar energy that is practical to harness)

Source: David Owen, Solar Energy U.K.

IPPR Report July 2014







A NEW POWERHOUSE FOR BRITAIN

Reg Platt, Will Straw, Jimmy Aldridge and Jack Williams July 2014 @ IPPR 2014 Institute for Public Policy Research

It is time for the cities to act

The cities want more powers from national government so that they can become powerhouses of the British economy. At the same time, the energy system is being radically transformed by the need to decarbonise and the emergence of new, clean energy technologies.

There is a clear opportunity for cities to be at the forefront of the changes that are happening in the energy sector. They can achieve this by engaging in energy supply and investing in low-carbon infrastructure. Through these actions cities can boost their local economies, demonstrate that they have the ingenuity, skills and capacity to take on more powers, and raise their influence at the national level.

Source: IPPR City Energy Report July 2014

Ambitious cities











PETERBOROUGH







2. BARRIERS AND POWERS

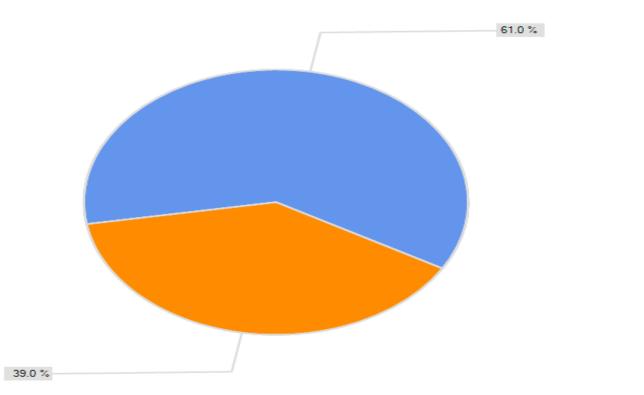
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Survey on the barriers to local authority involvement in municipal energy schemes



Yes No

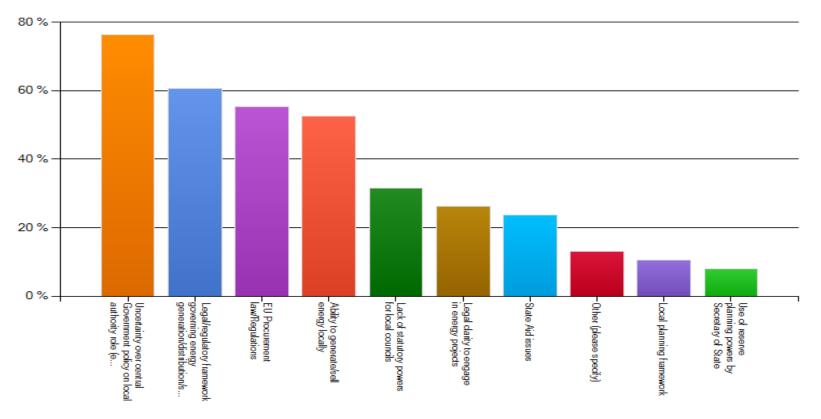
Do you feel that local authorities have sufficient statutory/legal powers available and legal certainty to undertake local energy projects?



Survey on the barriers to local authority involvement in municipal energy schemes



What in your view are the main statutory/legal barriers facing local authorities ? (Choose up to 5 options)



Powers for local government



Local Authority Trading

 The Local Government Act ("LGA") 2003, s.95 provides a power to trade for commercial purposes providing there is no statutory duty to provide the services and no other statutory power to trade

Localism Act

• The Local Government Act 2000 s.2 (1) repealed the wellbeing power but introduced a general power of competence which would be the power used to set up an ESCO.

Other powers

- Incidental powers LGA 1972 s.111 and investment powers LGA 2003 s.12.
- The Sale of Electricity by Local Authorities (England and Wales) Regulations 2010 (SI 2010/1910). Sale of renewable electricity <u>without</u> heat.

What is an Energy Services Company (ESCO)?

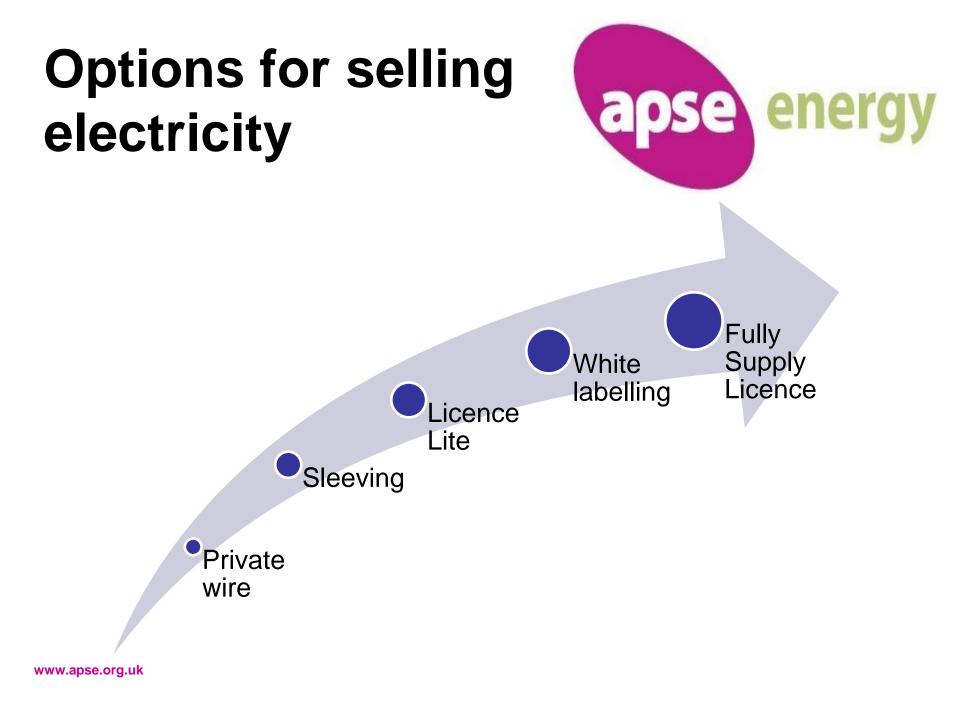


"The term ESCO is sometimes used to refer to an entity which has been set up by a public sector organisation (with or without private sector participation) for the purpose of delivering energy efficiency, energy savings and/or sustainable energy, whether through a variety of different initiatives or through a particular initiative, such as a CHP scheme. Such entities may well have a public body or quasi-public body nature. ESCOs of this nature may use a variety of means of delivering the services which they have been set up to perform, including contracting with the private sector."



3. OPTIONS FOR ENERGY SUPPLY

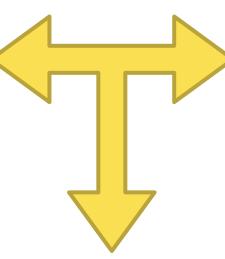




Private wire network apse energy









Electricity Generation facility

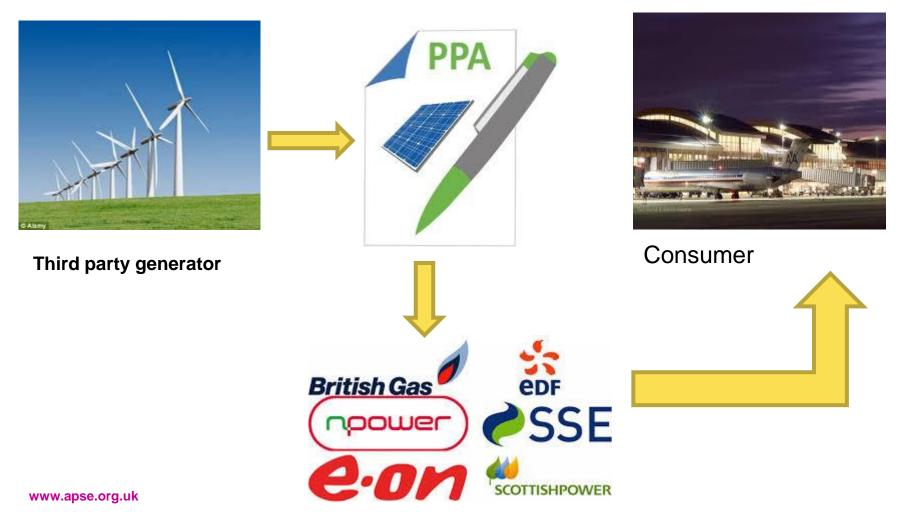
Consumer



DNO

Third party netting or sleeving





License Lite





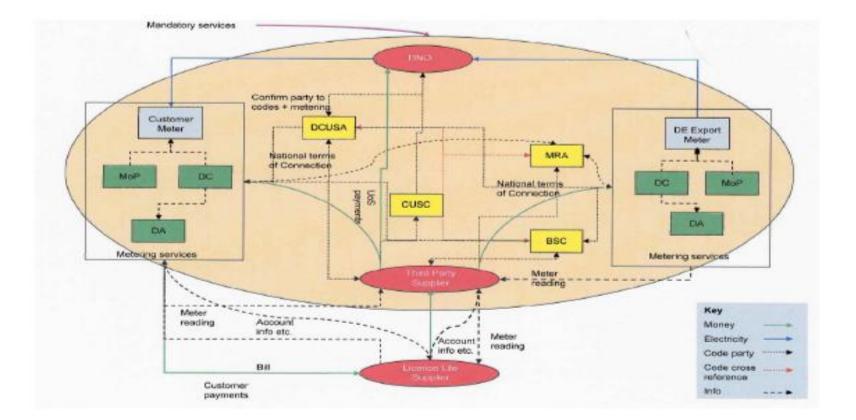
Fully licensed supplier

Development of Licence Lite



- Nov 2006 DECC/OFGEM Review distributed energy generation.
- May 2007 Energy White paper *"meeting the energy challenge".*
- Dec 2007 Consultation on flexible market and licencing arrangements.
- June 2008 Offtake arrangements and market access for small distributed energy generators.
- June 2008 Further consultation on licensing and flexible market arrangements.
- Feb 2009 Final 'Licence Lite' proposals and statutory consultation.
- March 2009 Electricity supply licence modified to permit 'Licence Lite'.
- March 2013 GLA applies to OFGEM for licence Lite
- March 2014 OFGEM call for evidence on 'White label providers'.

Licence Lite contractual matrix headache

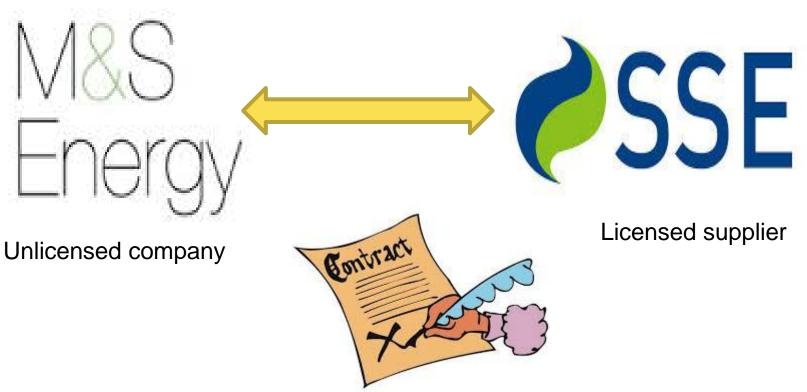


Source: Cornwall Energy, Licence lite briefing note July 2014

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"White labelling"







Partnering apse energy

Option 1: Full Service Energy

 You choose what to offer, to whom, and at what price; we provide all the services you need to deliver your offer

Option 2: Customer Partnership

• The same as option 1, except you take responsibility for frontline customer service and written communication with customers

Option 3: Your own licence

 You apply for your own licence (full licence or Licence Lite) and we provide any services you need, including power procurement and trading

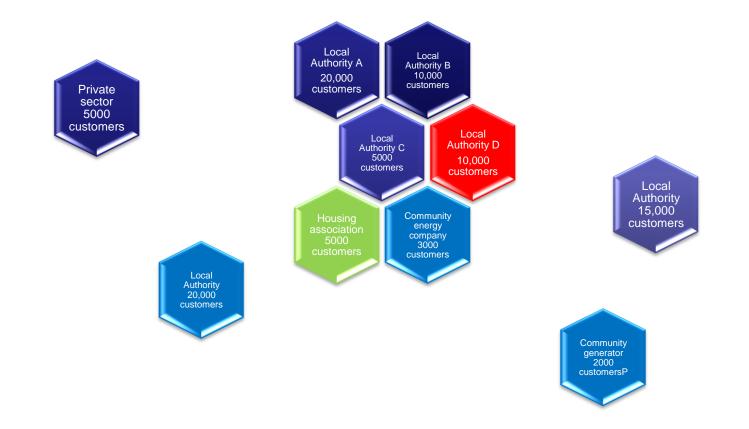
Local authority Energy supply company

- Customer base.
- Generation capacity.
- Balancing and settlement.
- Risk.
- Competition and state aid.
- Reaction of the big six.
- Local Tariff.
- Economic development and regeneration.



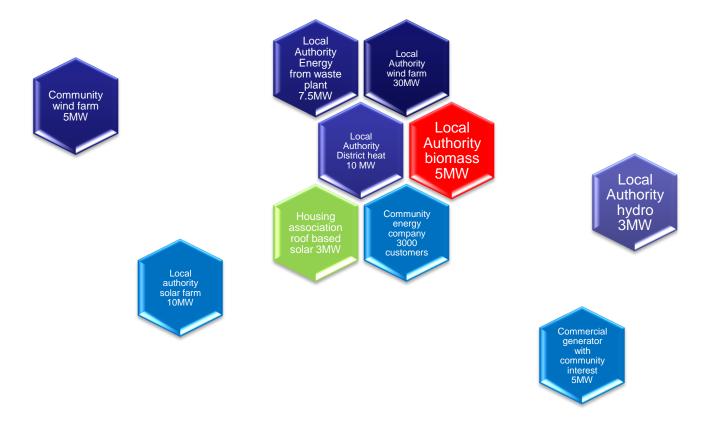
Building a customer base





Building generation capacity



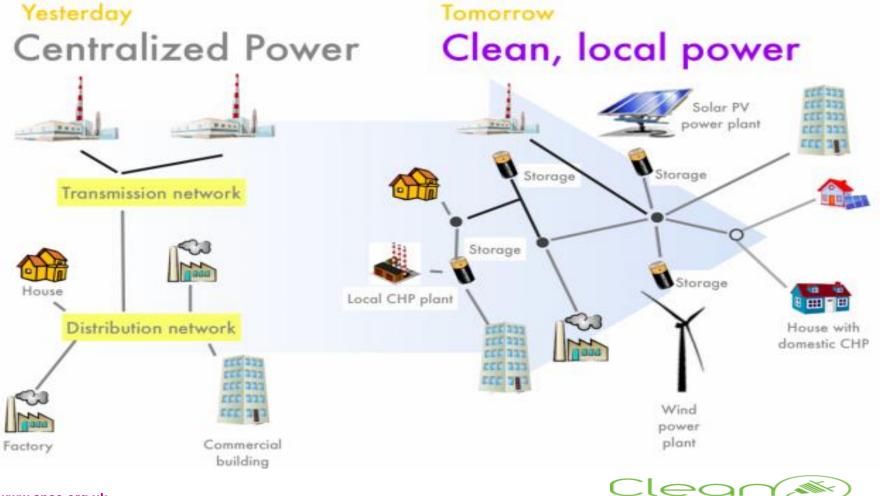




4. WHERE THINGS MIGHT BE HEADING?

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2015 Game Changer



- Greater London Authority Licence Lite.
- Nottingham Energy Supply Company Full supply licence (177,000 households)
- Our power Industrial and Provident Society (9 housing Associations, local authorities, community organisations 133,000 potential customers)

Looking to the future



- Energy security
- Increased distributed energy capacity
- Smart Grid technology.
- Energy storage.
- Local grids.
- Devolution.
- Combined authorities.

5. JOIN THE ENERGY REVOLUTION



APSE Energy – House of Commons launch 11 June 20⁷

- Over 60 people from a range of organisations including member local authorities, DECC, TCPA, LGA, Climate U.K. IPPR attended the launch.
- Addressed by Rt. Hon Ed Davey M.P. Secretary of State for Energy and Climate Change and Dr. Alan Whitehead M.P. the Chair of the All-party Parliamentary Renewables and Sustainable Energy Group (PRASEG).



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Aims



The aims of **APSE energy** are to support councils to deliver the local municipalisation of energy services and in doing so:

- address social objectives and deliver community benefits, such as a reduction in fuel poverty and increases in jobs and skills;
- save money and make money for local authorities to safeguard local services.

Aims



- People
- Poverty
- Pounds

Members of APSE Energy

- 1. Aberdeen City Council
- 2. Barnsley Metropolitan Borough Council
- 3. Bradford City Council
- 4. Bridgend County Borough Council
- 5. Buckinghamshire County Council
- 6. Cardiff City Council
- 7. City of Edinburgh Council
- 8. Cumbria County Council
- 9. Darlington Borough Council
- 10. Doncaster Metropolitan Borough Council
- 11. Derbyshire County Council
- 12. Dudley Metropolitan Borough Council
- 13. East Dunbartonshire Council
- 14. East Riding Council
- 15. Flintshire County Council
- 16. Gedling Borough Council
- 17. Guildford Borough Council
- 18. Knowsley Metropolitan Borough Council



- 19. Lancaster City Council
- 20. Middlesbrough Council
- 21. Newcastle City Council
- 22. Nottingham City Council
- 23. Nottinghamshire County Council
- 24. North Ayrshire Council
- 25. Northumberland County Council
- 26.Oxford City Council
- 27. Peterborough City Council
- 28. Portsmouth City Council
- 29. Preston City Council
- 30. Reading Borough Council
- 31 Stevenage Borough Council
- 32. Southampton City Council
- 33. South Lanarkshire Council
- 34. Stockton-On-Tees Borough Council
- 35. Swansea City and County Council
- 36. Warwickshire County Council
- 37. Wolverhampton City Council
- 38. York City Council



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