









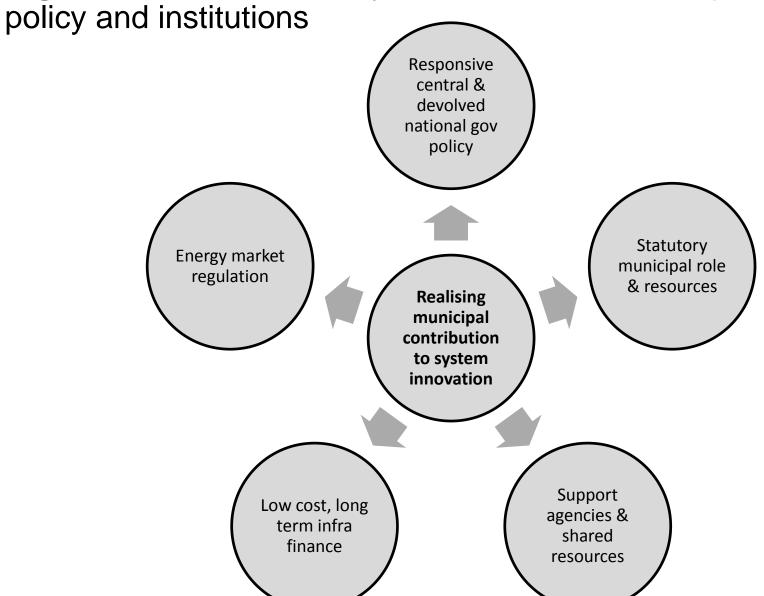


What We Know about Local Authority Engagement in UK Energy Systems

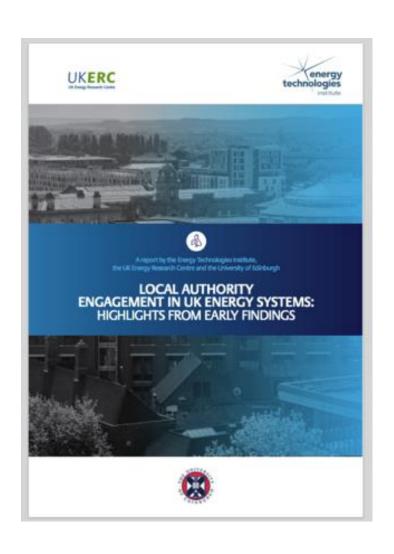
Ambitions, Activities, Business Structures & Ways Forward

Mags Tingey
24 January 2018
UK District Energy Vanguards Network Event
Leeds

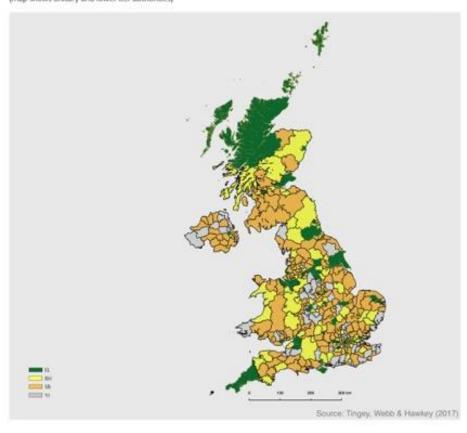
Significant Local Authority contribution needs responsive



Research Phase 1: mapping energy plans & investments across all UK LAs



Map 1 UK Local Authority Engagement in Energy Systems (map shows unitary and lower tier authorities)



Sources: Contains Ordnunce Survey data 2012; 2013; National Statistics data 2013; NRSA data 2013; NRS data 2013. Crown copyright and database right. Map created using QCIS (QCIS Development Team. 2016).

Widely established ambition, but small scale & uneven developments

Figure 1
UK Local Authorities According to Level of Engagement in Energy Systems

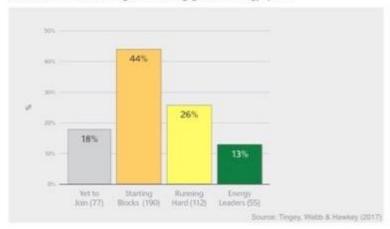
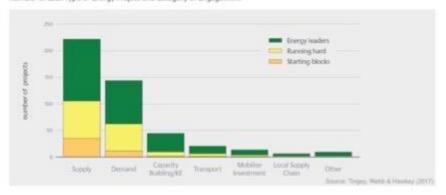


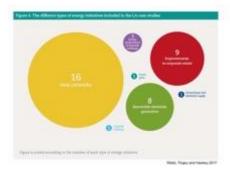
Figure 2 Number of Each Type of Energy Project and Category of Engagement

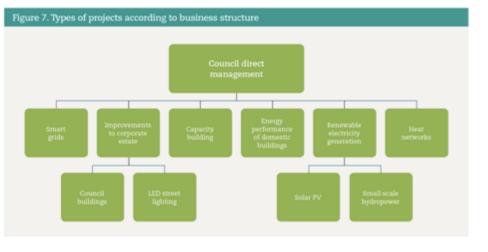


Phase 2: 40 local authority cases

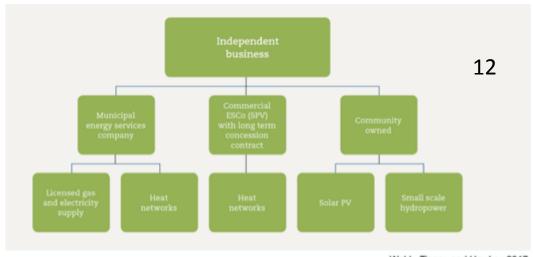


Variety of innovative & enterprising Energy Project Case Studies





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Webb, Tingey and Hawkey 2017





Somers Town Energy

- Phase 1 Social housing tenants ~339
- Phase 2 CHP connecting
 Francis Crick Institute
- Approx 90% capex s106 funding
- Phase 3 ~130 housing, school, community centre
- Retained in-house under direct management

...we retain the control and that was a really key consideration for us because we didn't want a third party organisation coming in and telling our customers what they would be charged. We have that control, because it's our responsibility to give them the fairest deal.

Camden Council



- mid 2000s LCC plan DH expansion of existing1980s scheme
- Shelved for a time...
- 25-year concession contract with Cofely Ltd (now Engie) to create LDEC Ltd in 2010
- Concession: Council meets carbon reduction objective, network renewal and city centre extension at no upfront capital cost
- Engie ~ £14 million
- GDF Suez ~ £1 million
- City centre 30 council buildings, UoL
- Upgraded older island networks ~
 3,000 social housing
- Network extension more difficult:
 - level of commercial returns
 - guaranteed customer connections
 - 550 new student accom connected in 2016.

Image credit: Engie

WEAREA COMMUNITY **BENEFIT SOCIETY** GIVING PLYMOUTH THE POWER TO TRANSFORM HOW **WE BUY, USE AND GENERATE ENERGY**

Image credit: PEC

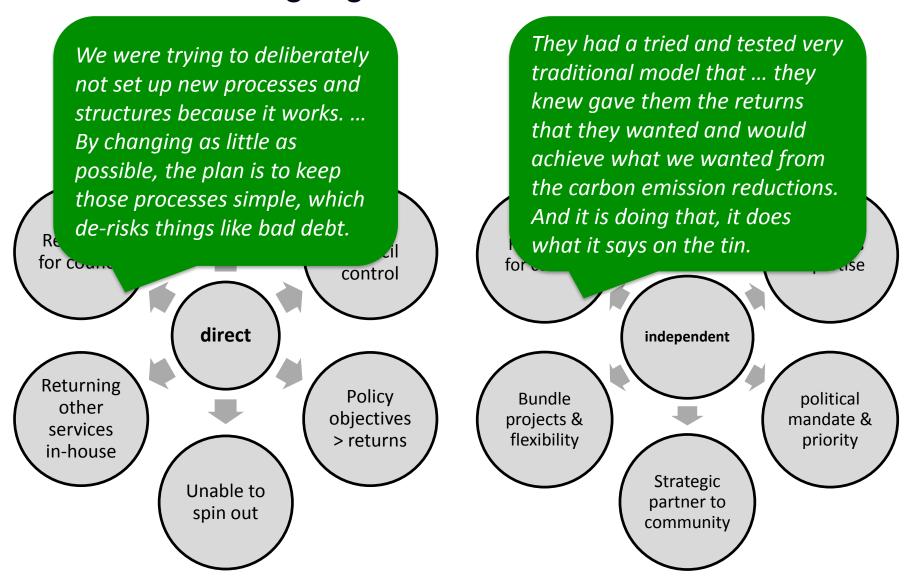
Plymouth Energy Community

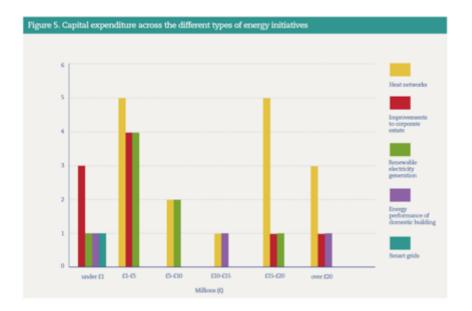
- 2012 Cooperative council model in Plymouth Labour Party manifesto
- Integrated into corporate plan
- 2013 Plymouth Energy Community
- Solar PV, energy advice, LEDs schools
- Council recognised as trusted local partner supporting PEC growth, enabling a more inclusive model of clean energy services for council, citizens and investors
- Extend to DH??

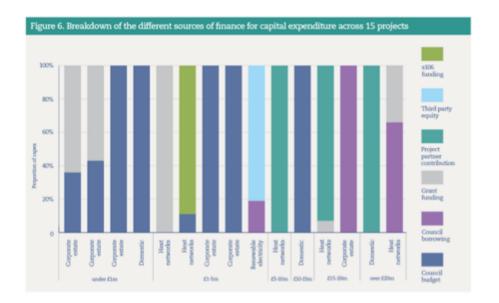
The council has been supportive in terms of providing host sites and financial support through loans... that's helped to create confidence in the organisation. Now there's the confidence... [and] because it's got a track record it goes from strength to strength.

Plymouth City Council

Decision making logics for business structure







But uncertain context for project & strategy development

- · Austerity budgets
- Restructuring and job losses: Fragmented knowledge & expertise
- No local authority mandate & no single problem of
- Short term funding cycles
- Uncertain energy policy: Heat and energy efficiency
- Inequality and poverty
- Contrast with Northern Europe: Significant local polition
 financial powers & municipal services

We have a big role to play in this [energy] agenda... There's obviously a big transformation of local government underway, and we must work differently ... we see the transformation of Birmingham's energy system, and its interactions with other service areas, as a catalyst for delivering multiple outcomes. Birmingham City Council

Uncertain context for project & strategy development

Formal energy responsibility

Dedicated budget/core funding

Energy projects a niche activity

The first thing [Councillors] think is, 'Right, let's go 100% renewable' and from our current baseline that's a massive ten year project which will require huge amounts of projects and a whole new staff team. There's no understanding of what that change would be like.

Metropolitan District

Restructuring & redundancy

[Our energy officer]... they're having to negotiate and have discussions with sharp commercial entities. But when you go back to the ranch and can't even get a simple contract done... it's undermining the local authority's credibility when you're trying to position yourselves as a serious player and contender and mobiliser of the market.

London Borough Council

Austerity

Whilst multiple benefits sought, money dominates

Carbon & energy saving

the decision to go ahead with the project was based purely on the economics of it. The carbon didn't have a lot to do with it.

English City Council

Regeneration

Multiple benefits

we look at the financial costs...we have certain parameters... And if a project hits the parameters then it can go ahead. It's as simple as that.

English city council

Income

I look at the financial models in great detail, come up with a funding plan ... I will then take that to my finance director, and if it doesn't make money I won't even bother with it.

English Borough Council

our finance department are massively challenging when it comes to risk; they're very, very risk averse

Welsh authority

Formal energy responsibility

difference.

Dedicated budget/core funding

Energy projects a niche activity Some solutions...

 Making energy prominent in local strategy, future vision & investment

 Making energy a responsibility of Chief Exec Office & Council Executive

about £10-12 million pounds per annum and somebody should have responsibility for that... at chief exec level ... That would be a massive driver because suddenly the chief exec's asking... You could then align with an elected member... between the two they'd make a real

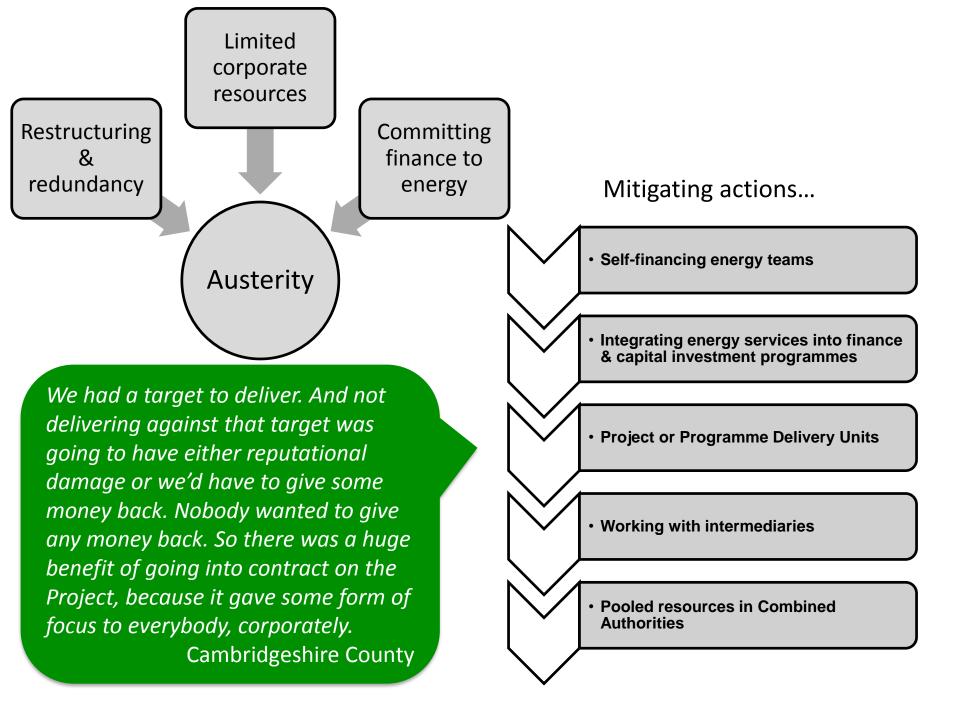
There's an [corporate energy] bill of

Scottish Authority

Pragmatic starting points & "Easy Wins"

Political leadership & cross party support

 Building capacity & expertise from public sector networks & partnerships





@heatandthecity

New Website https://heatandthecity.org.uk/

Report https://heatandthecity.org.uk/project/local-engagement-with-uk-energy-systems/

Blog http://www.ukerc.ac.uk/news/local-authorities-play-key-role-in-clean-energy-for-all.html

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