



# ***Panel and Interactive Session: How Universities can aid local infrastructure funding, finance and value creation***

*Chair: Gary Dymski, University of Leeds*

*Leeds Climate Committee: Tom Knowland, Leeds City Council, Andy Gouldson, University of Leeds*

*Behavioural science of project management: Andy Hollingsworth, Behavioural Insights Team North*

*A Local Infrastructure Commission model? Katy Roelich, University of Leeds.*

# Carbon emission reduction targets in Leeds

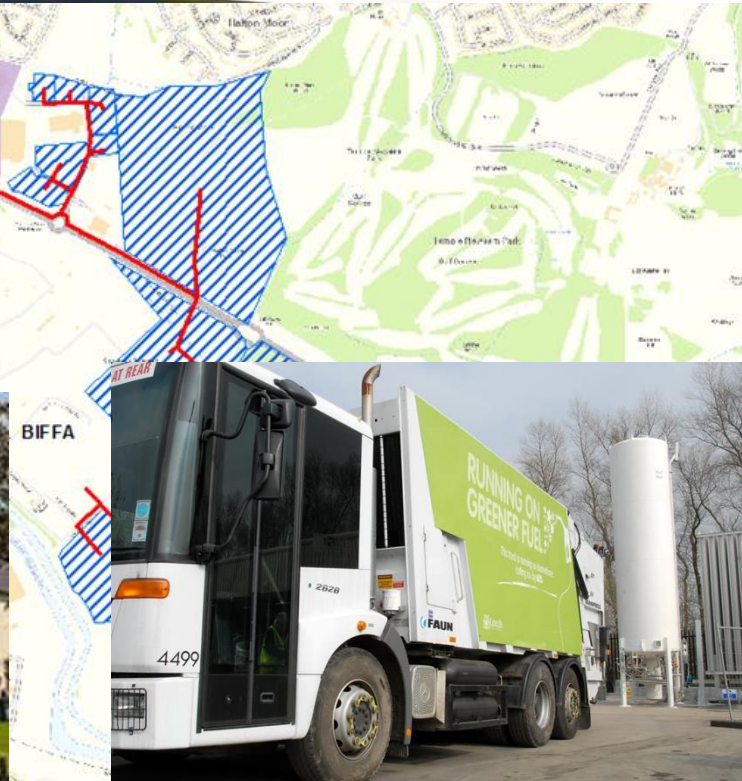
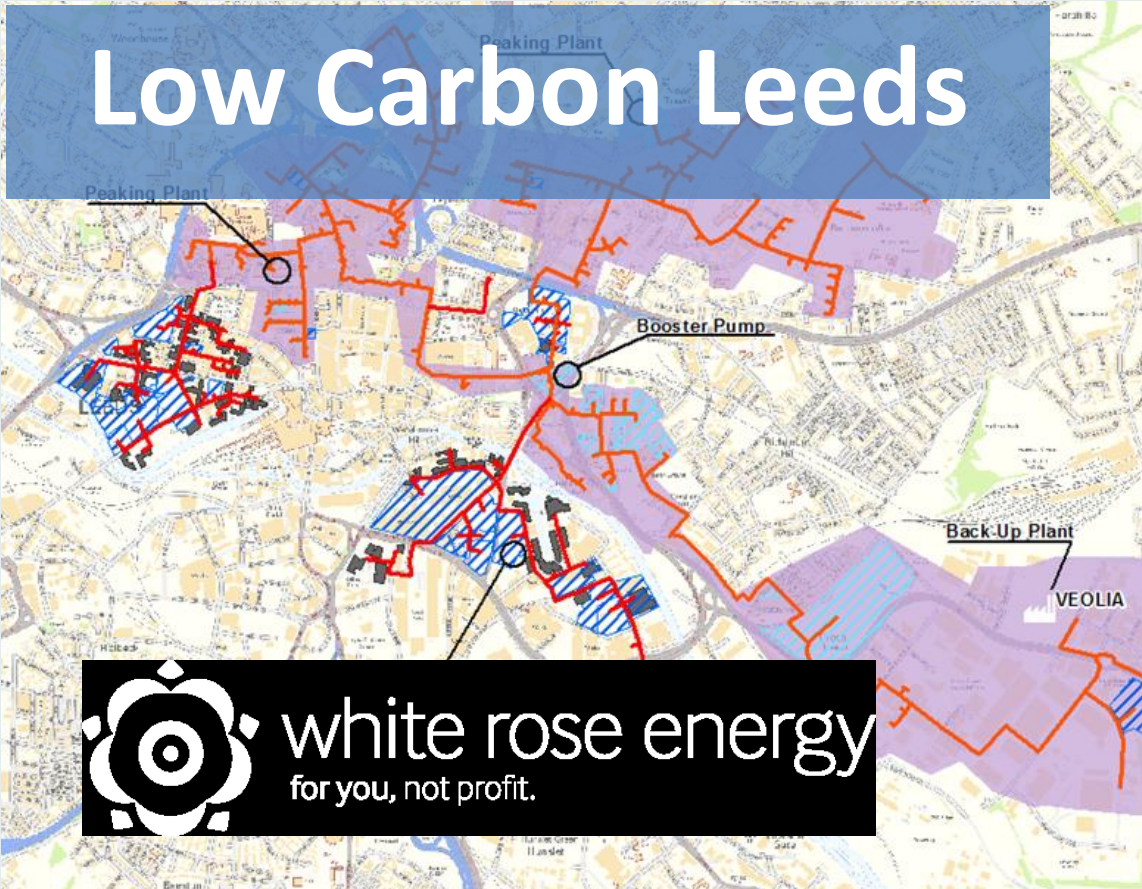
Scale	Baseline Year	Tonnes CO2	Target	Progress
INTERNAL (Includes LCC buildings, vehicles & lighting)	2008/9	137,000	40% reduction in CO2 emissions by 2020 (82,000 tonnes)	The council emitted 137k tonnes of carbon dioxide in 2008/09 and in 2014/15 this had reduced to 110k tonnes, a reduction of 20%.
CITYWIDE (Includes all other buildings, homes, private and commercial transport)	2005	c5,000,000	40% reduction in CO2 emissions by 2020 (2,993,000 tonnes)  60% reduction in CO2 emissions by 2030 (1,995,000 tonnes)  80% reduction in CO2 emissions by 2050 (998,000 tonnes)	Citywide emissions were 5.06m tonnes of carbon dioxide in 2005 and in 2014 this had reduced to 3.66m tonnes, a reduction of 27.7%.

# BBC Energy Policy audit (2015)

Government policy changes since election	Is this likely to cut or increase bills?	Is this likely to increase CO2 emissions?
Block solar in the countryside	Increase	Yes
Cut industrial solar subsidy	Cut	Yes
Cut solar subsidy on homes	Cut	Yes
Cut biomass subsidy	Cut	Yes
Cut biogas subsidy	Cut	Yes
Scrap Green Deal	Increase	Yes
Cut zero carbon homes	Increase	Yes
Impose carbon tax on renewables	Debatable	Yes
Block onshore wind	Increase	Yes
Increase tax on small cars	Increase	Yes
Tax breaks for oil and gas industry	Neutral	Yes
Cut zero carbon offices	Increase	Yes
Cut support for community energy	Cut	Yes
Sell Green Investment Bank	No impact	Debatable
Freeze fuel duty escalator	Cut	Yes
Diesel generator subsidy increase	Increase	Yes



# Low Carbon Leads

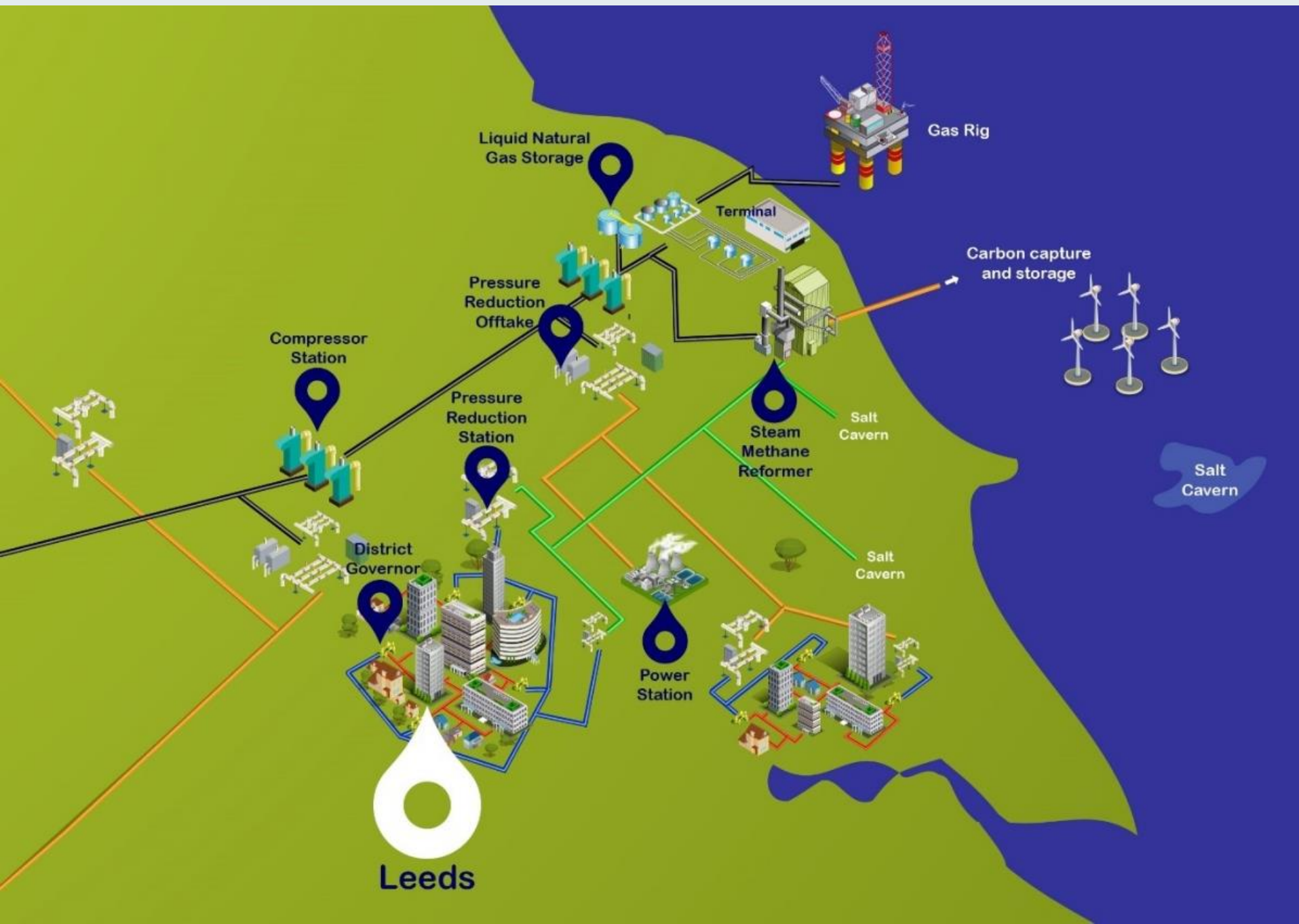




# City-wide projects



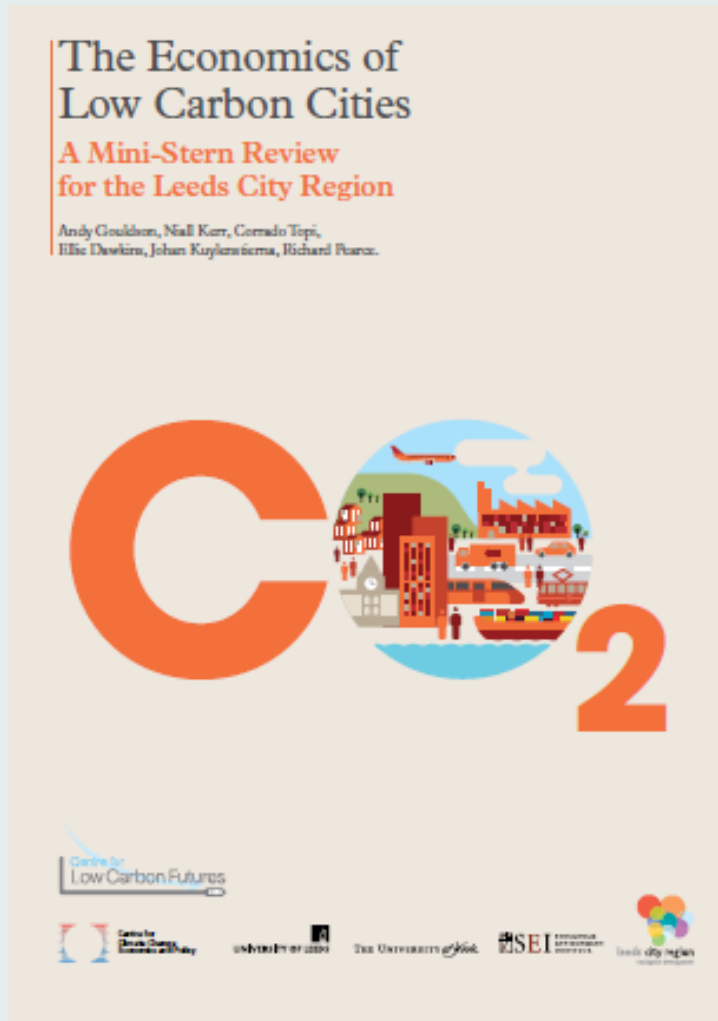




Leeds



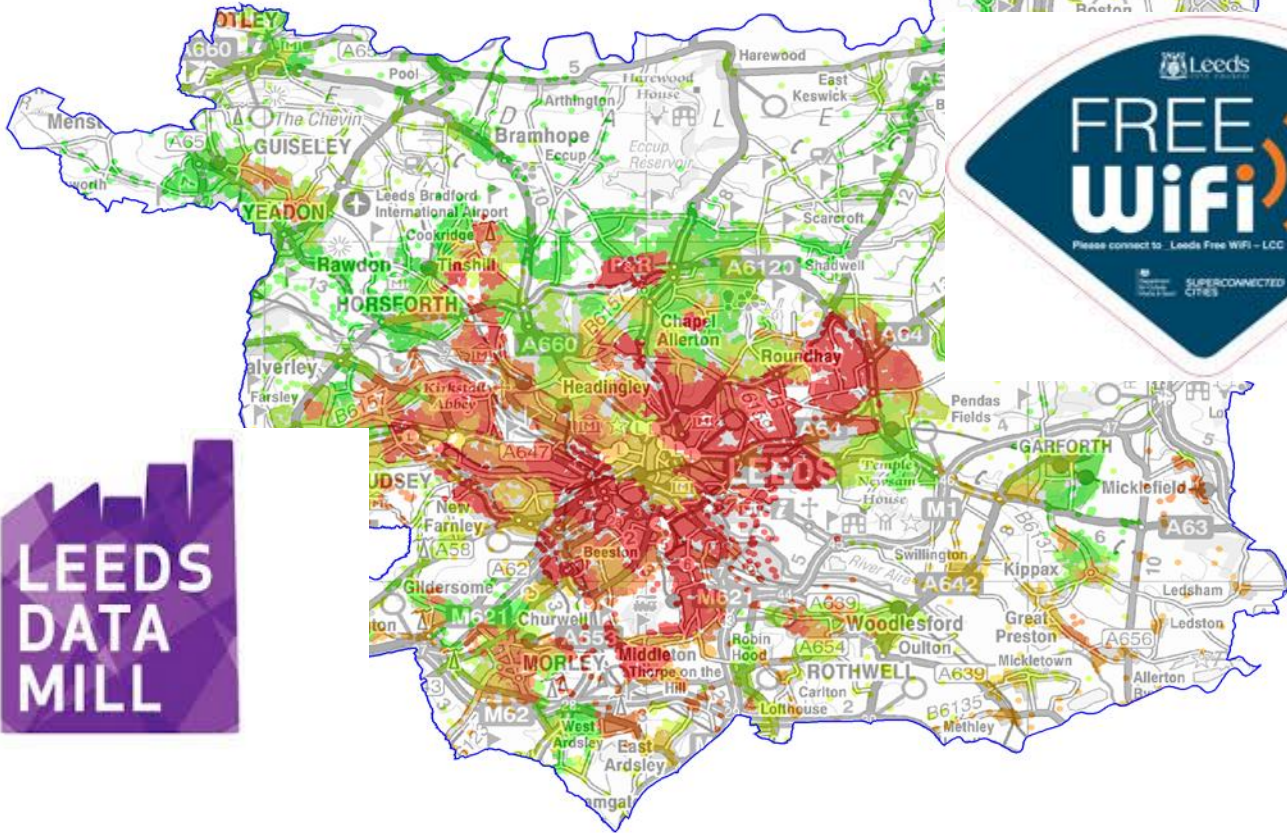
# Mini Stern for Leeds City Region



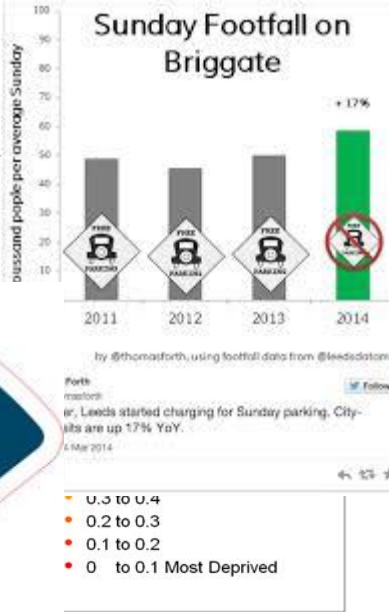
- 10% of GDP leaves local economy through energy bills
- Increase to 15% by 2022
- Invest 1% of GDP for 10 years leading to...
- Reduction in energy bills
- 4 year financial viability
- Job creation
- Increased energy security and competitiveness
- Social benefits



# Digitally enabled smart city



IMD source: <http://www.communities.gov.uk/communities/research/indicesdeprivation/deprivation10/>



Postcode centroids  
coloured by IMD 2010.  
PCT & LA boundaries  
included.



# How can the research community...

- Accelerate the development of low carbon projects in Leeds?
- Identify financing models for transition to low carbon economy?
- Use the city of Leeds as a living laboratory?
- Use open data to encourage low carbon lifestyles?



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