

Community Energy Strategy and the Power Saver Plus Project

Community Energy in Levenshulme

Tom Law, 28 September 2017

Pelectricity

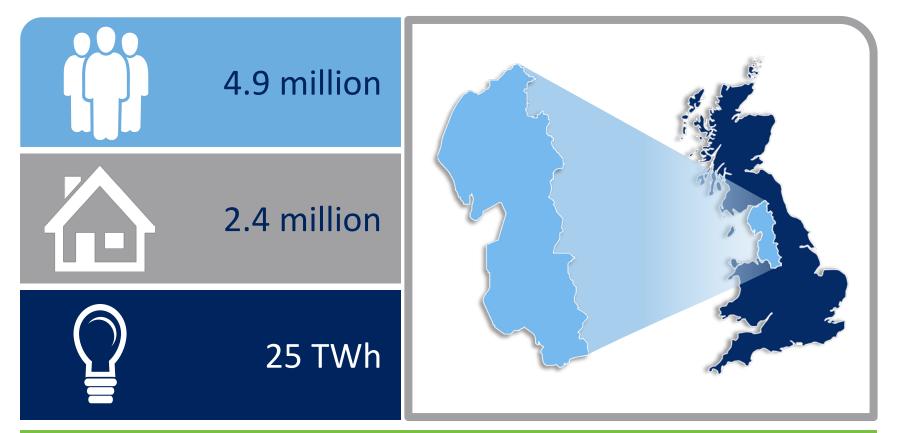
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Introducing Electricity North West



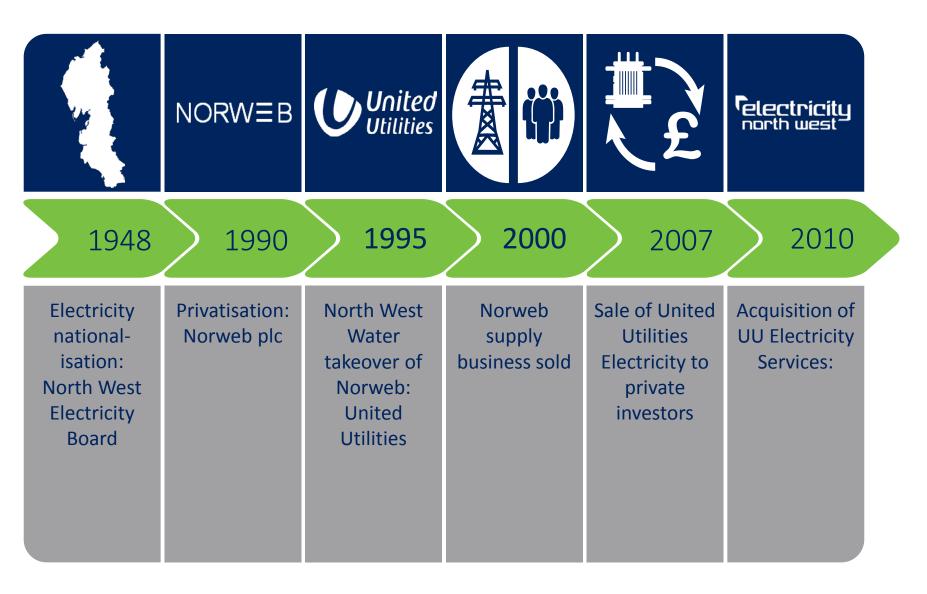


56 000 km of network • £12.3 billion assets

19 grid supply points66 bulk supply substations363 primary substations33 000 transformers

Our Heritage





UK energy challenges



2013

1/3 gas 1/3 electricity 1/3 oil



2020

35% reduction in CO₂ 15% of energy from renewables

Generation mix is radically overhauled



2030

60% reduction in CO₂ Electricity demand increases, driven by low carbon technologies



2050 80% CO₂ reduction Significant increase in electricity demand

Uncertainty in future demand and generation

 Difficult to predict demand
 More pressure to meet customers' needs at minimum cost

Electric vehicle uptake

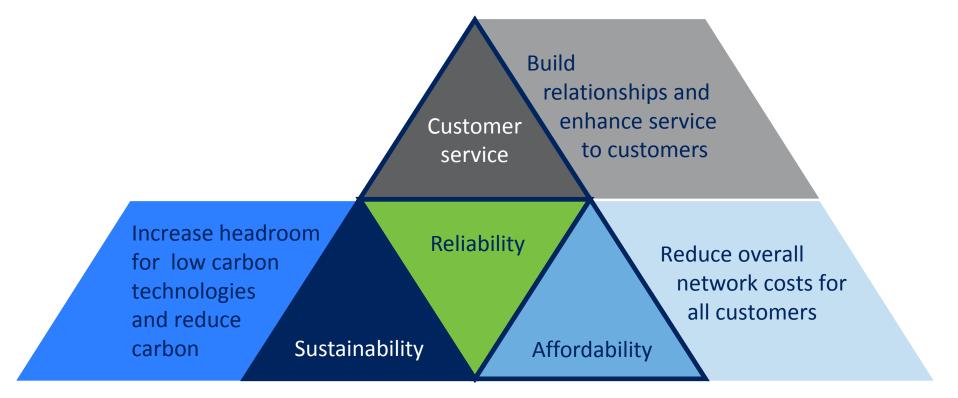




National Air Quality Plan (2017)

"all new sales of conventional petrol and diesel cars and vans to end by 2040."





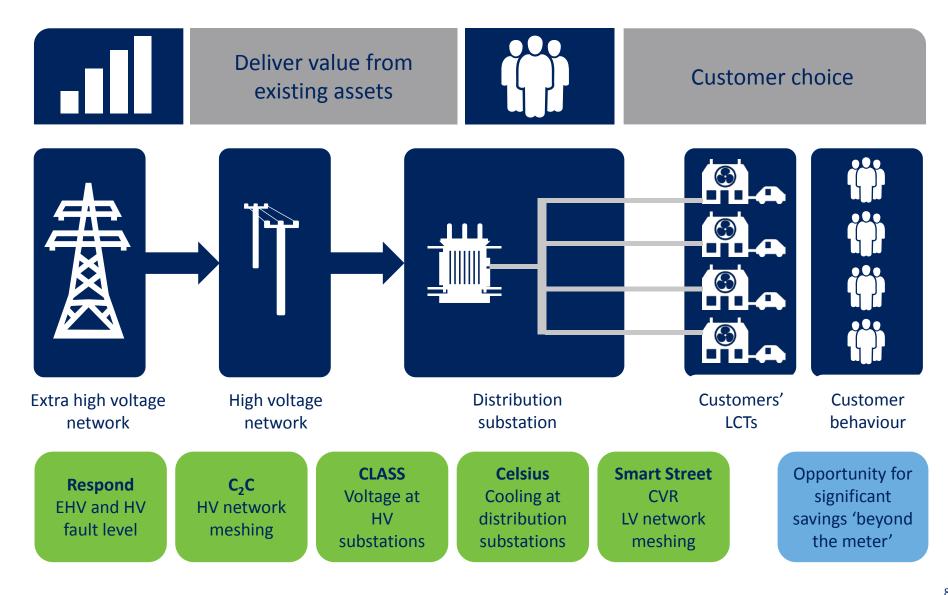
Innovation projects to support these aims



"Build relationships and enhance service to customers"







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QUESTIONS CL ANSWERS

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Power Saver Plus trials

•• AAA Appliances	Heating	Lighting	Behaviour	PV	Combined measures
High efficiency 'white goods' such as fridge freezers, washing machines, tumble driers and dishwashers will be deployed on a 'scrappage scheme' basis	Traditional electric storage heaters in domestic buildings will be replaced with high efficiency heaters	 1.Deployment of LED lighting in customers' premises 2.Deployment of LED street lighting in selected areas 	A behavioural change programme through multiple channels of engagement, on an individual basis and by customer group	 Free or subsidised PV installations on municipal buildings Deploy small scale PV installations at secondary substations 	Multiple measures deployed with a trial group: a combination of lighting, an appliance and behavioural intervention



quantifies wider

societal benefits

Power Saver Plus unlocks huge potential of energy efficiency

PUWER SAVER Challenge				
Builds on previous project which proves that engaging with customers can influence them to change their behaviour	Variety of low cost, low intrusive energy efficiency measures trialled with broad range of customers	Power Saver Tool provides whole system view and allows targeted approach to energy efficiency	Enhanced CBA model will establish costs and benefits of 'Targeted' energy efficiency vs smart network solutions and	Benefits: Deferred reinforcement Reduced carbon Reduced network and energy costs for

customers

Customer engagement



Electricity North West has a proven track record of successful customer engagement

We are drawing upon learning from previous projects eg Power Saver Challenge which demonstrated that engagement can successfully change customer behaviour

