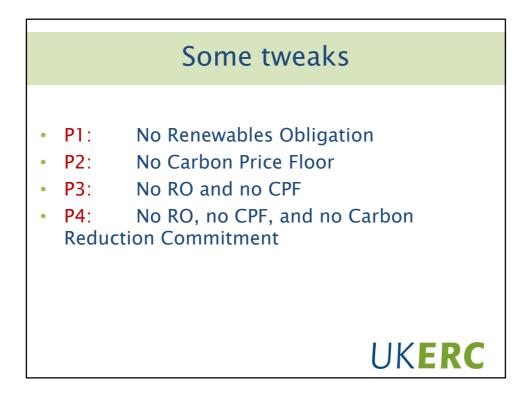


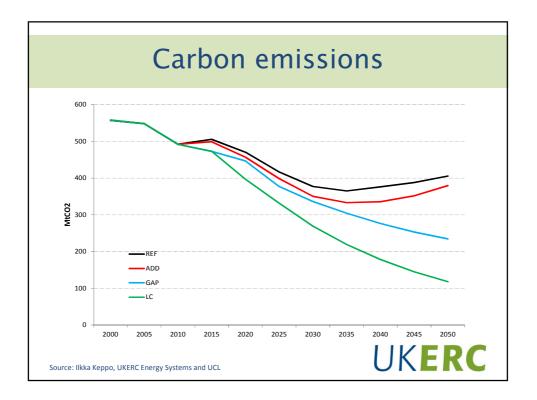


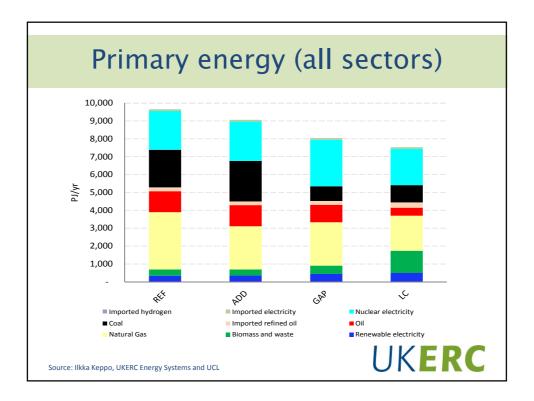
Some assumptions						
	Reference (firm and funded) (REF)	Additional measures (beyond Reference) (ADD)	Policy Gap (GAP)	Low Carbon (LC)		
Carbon targets	• None	• None	<ul> <li>First two carbon budgets met. For 3<sup>rd</sup> and 4<sup>th</sup> budgets and 2050 target 70% of target reductions starting from 2015 baseline are achieved.</li> </ul>	• First four carbon budgets met; 2050 reduction target of 80 % (compared to 1990); equal annual percentage trajectory 2025-2050.		
Renewable energy directive/targets	<ul> <li>Renewable obligation (15 % of electricity renewable by 2015 and until 2050), with a buy out price of 28 £(2000)/Mwth included. Max. 12.5 % of the renewable production can be from co-firing.</li> </ul>	As reference	<ul> <li>70% achievement of RED (matches current RO achievement). 21% by 2020 and 28% by 2030.</li> </ul>	<ul> <li>100% achievement of RED.</li> <li>Target for renewable electricity is 30 % for 2020, 40% by 2030 (and after that) and the buy- out option is removed.</li> </ul>		
			<ul> <li>Min. targets for 2020 for onshore wind (20 % of renewables), offshore wind (30 %) and biomass (30 %).</li> </ul>	<ul> <li>Min. targets for 2020 for onshore wind (20 % of renewables), offshore wind (30 %) and biomass (30 %).</li> </ul>		
			<ul> <li>The limit on co-firing is removed</li> </ul>	<ul> <li>The limit on co-firing is removed</li> </ul>		
Electricity Market Reform	Carbon price floor for electricity emission. Trajectory (in £ 2009) £15.70/tCO2 (in 2013), £30/tCO2 (in 2020) and £70/tCO2 (2030 - 2050). Interpolated linearly between the years.	Emissions Performance Standard – Building of unabated coal power plants prohibited (in addition to the carbon price floor)	As additional measures	As additional measures		

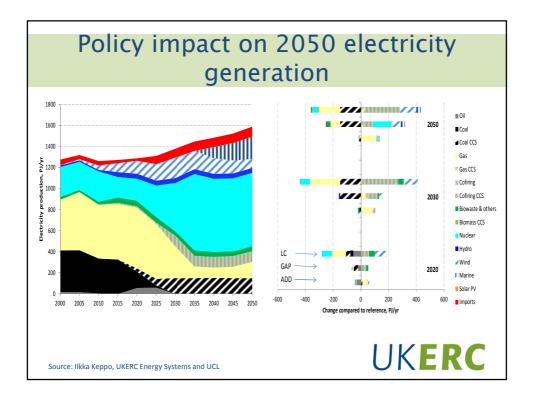
Some assumptions						
	Reference (firm and funded) (REF) (	Additional measures beyond Reference) (ADD)	Policy Gap (GAP)	Low Carbon (LC)		
CCS demonstration plants	1st demonstration plant (425 MW) forced in	<ul> <li>Three additional CCS demos (total 1.275 GW), at least one of which will be a gas fired CCS plant</li> </ul>	As additional measures	As additional measures		
Renewable Heat Incentive	No policies included	<ul> <li>Some renewable heat generation is forced in.</li> </ul>	<ul> <li>70 % achievement of RED leading to a target of 8 % renewable heat by 2020</li> </ul>	<ul> <li>RED target for renewable heat is set at 12 % by 2020</li> </ul>		
Small scale Feed in Tariffs	<ul> <li>Feed in tariffs (in £2009) for micro CHP (10 p/KWh), solar PV (res and comm. sectors (36.1 p/KWh)), micro wind (34.5 p/KWh) and micro hydro power (11 p/KWh). Starts in 2010, linearly reduced to zero by 2030.</li> </ul>		As reference	As reference		
Household energy efficiency	CERT/CESP are assumed to be reflected in the reference case hurdle rates	<ul> <li>Green Deal, hurdle rates in the residential sector reduced from 15 to 5 % and annual deployment constraints relaxed by 20 %.</li> </ul>	As additional measures	As additional measures		

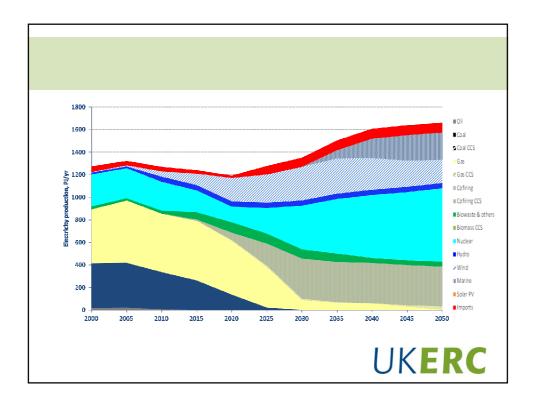
	Some assumptions					
	Reference (firm and funded) (REF)	Additional measures (beyond Reference) (ADD)	Policy Gap (GAP)	Low Carbon (LC)		
Industry	Climate Change Levy     included	As reference	As reference	As reference v		
Services	<ul> <li>Carbon Reduction Commitment at £12/tCO2 (in £2011), for 60 % of the emissions from the service and for 18 % of the emissions of the industry sector.</li> </ul>	As reference	As reference	As reference		
Transport	Renewable transport fuel obligation, 5 % renewables in road transport     Fuel duties are kept constant	As reference	The target for renewable transport is increased to 10 % in 2020	• The target for renewal transport is increased to 10 2020		

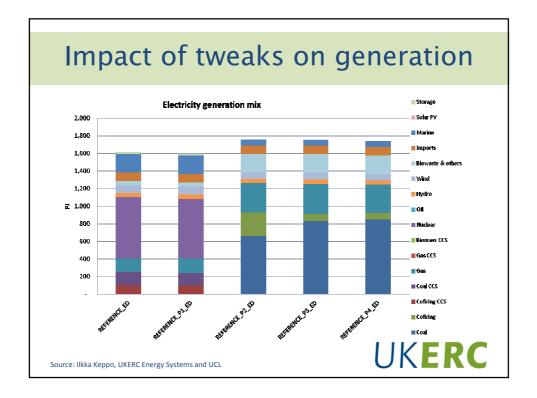












## More variations

- GAS: Price decoupled from oil, broadly constant real terms, and no supply constraints
- R(esilience): No fuel or technology has more than 40% share of portfolio, AND energy intensity of GDP reduces by 3.2% pa from 2010.

**UKERC** 

