

SECTOR	TECHNOLOGY AREA	TECHNOLOGY/APPLICATION	Res	Dev	Dem	Dep	GHG	SoS	Fpov.	Mkts	Mksize	Strat.	Env.	Econ.	Soc.	TecRsk	Reg.	Time	Cost	Invest	Export	EUlink	Stdrrs	Strgrth	Intl.	Matls	C&I		
TRANSPORT	Vehicles - all surface Transport m	Advanced ICEs and drivetrains	→	→			Orange	Red																					
		Fuel cells	→	→			Orange	Orange																					
		Hybrids	→	→			Orange	Orange																					
		Electric drive, batteries and storage	→	→			Orange	Orange																					
		Hydrogen	→	→			Orange	Orange																					
		Vehicle design, electronics & control	→	→			Orange	Orange																					
	Fuels	Conventional	→	→			Orange	Orange																					
		Biofuels	→	→			Orange	Orange																					
		New fuels	→	→			Orange	Orange																					
	Transport system	Design including freight logistics	→	→			Orange	Orange																					
		Demand Management	→	→			Orange	Orange																					
		Passenger logistics	→	→			Orange	Orange																					
	Roads	Infrastructure	→	→			Orange	Orange																					
		Telematics	→	→			Orange	Orange																					
	Rail	Electric	→	→			Orange	Orange																					
		Diesel	→	→			Orange	Orange																					
		Advanced propulsion systems	→	→			Orange	Orange																					
		Infrastructure	→	→			Orange	Orange																					
		Mass Passenger Transit (light rail)	→	→			Orange	Orange																					
		Road/rail integration	→	→			Orange	Orange																					
	Water	Propulsion systems	→	→			Orange	Orange																					
		Inland	→	→			Orange	Orange																					
		Ocean	→	→			Orange	Orange																					
	Aviation	Aerodynamics	→	→			Orange	Orange																					
		Advanced propulsion systems	→	→			Orange	Orange																					
		Novel designs	→	→			Orange	Orange																					
		Operations and logistics	→	→			Orange	Orange																					
	DEMAND SIDE	Building design and controls Existing	Design optimisation	→	→			Orange	Orange																				
Building fabric			→	→			Orange	Orange																					
Heating, cooling and lighting			→	→			Orange	Orange																					
Domestic appliances			→	→			Orange	Orange																					
Control and energy management			→	→			Orange	Orange																					
Building design and controls New and Emerging		Design optimisation	→	→			Orange	Orange																					
		Building fabric	→	→			Orange	Orange																					
		Heating, cooling and lighting	→	→			Orange	Orange																					
		Domestic appliances	→	→			Orange	Orange																					
		Control and energy management	→	→			Orange	Orange																					
Industrial processes Existing		Process intensification	→	→			Orange	Orange																					
		Process control	→	→			Orange	Orange																					
		Combustion technologies	→	→			Orange	Orange																					
		High efficiency process plant	→	→			Orange	Orange																					
Industrial processes New and Emerging		Process intensification	→	→			Orange	Orange																					
		Process control	→	→			Orange	Orange																					
	Combustion technologies	→	→			Orange	Orange																						
	High efficiency process plant	→	→			Orange	Orange																						

Assessment	Criterion	Green	Amber	Red
		Impact - GHG reduction (UK)	Significant positive	Limited impact
Impact - Security of Supply (UK)	Significant positive	Limited impact	Significant negative	
Impact - Fuel Poverty (UK)	Significant positive	Limited impact	Significant negative	
Impact - Competitive Markets (UK)	Significant positive	Limited impact	Significant negative	
Size of a mature UK & global market	Large (GW.eqv)	Medium	Small (~ few MW.eqv)	
Fit with government technology strategy	Strategy recommends	Strategy neutral	Strategy discourages	
Environmental impact (other than GHG)	Significant positive	Limited impact	Significant negative	
Wider economic impact (ie broader than GHG)	Significant positive	Limited impact	Significant negative	
Societal -planning/ policy/ public acceptability	Significant positive	Limited impact	Significant negative	
Scientific or technical risk	Low Risk	Medium	High risk	
Regulatory or fiscal incentives	Clear incentives	None present	Barriers in place	
Timescale to commercial deployment	0-10y	10-20y	20+y	
Costs to commercial deployment (to GW scale)	Low cost	Medium	High cost	
Market willingness to invest	High	Medium	Low	
Ultimate export potential	Large (GW eqv)	Medium	Small (~ few MW eqv)	
Link with EU energy policy priorities	Well aligned	Some correlation	No alignment	
Availability of appropriate international standards	Already exist	Some definitions	Not covered	
Strength of UK R&D w.r.t. internat'l capabilities	Key internat'l contrib'n	Recognised capability	No sig. capability	
Prominence in internat'l energy policies	Key in no. of countries	Limited visibility	Does not feature	
Availability of appropriate materials technologies	Already exist	Some dev. required	Requires sig. development	
Availability of C&I and monitoring	Already exist	Some dev. required	Requires sig. development	