



www.eti.co.uk

PRASEG Energy 101

Mike Colechin

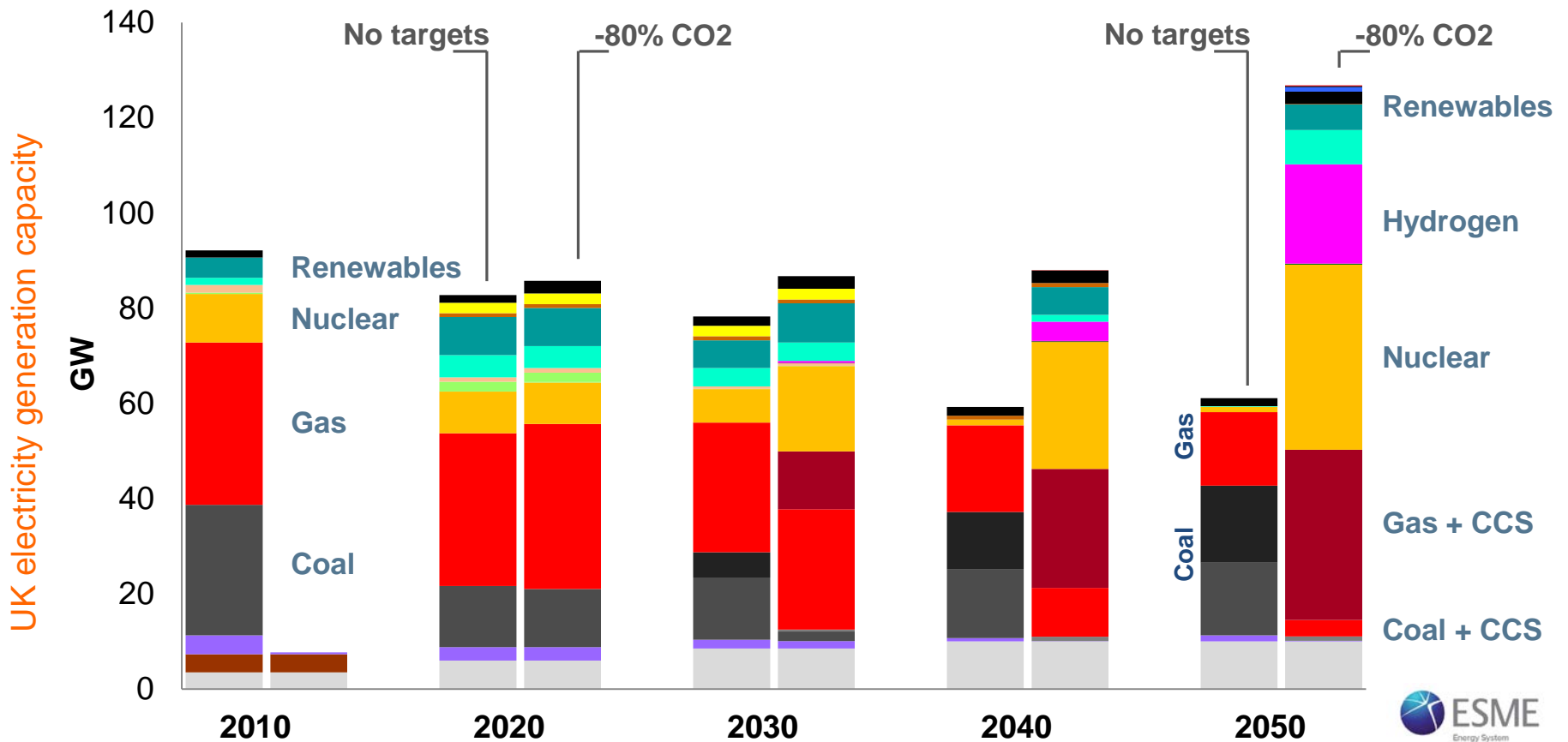
ETI10 | TEN YEARS
OF INNOVATION
2007—2017

©2017 Energy Technologies Institute LLP

The information in this document is the property of Energy Technologies Institute LLP and may not be copied or communicated to a third party, or used for any purpose other than that for which it is supplied without the express written consent of Energy Technologies Institute LLP.
This information is given in good faith based upon the latest information available to Energy Technologies Institute LLP, no warranty or representation is given concerning such information, which must not be taken as establishing any contractual or other commitment binding upon Energy Technologies Institute LLP or any of its subsidiary or associated companies.

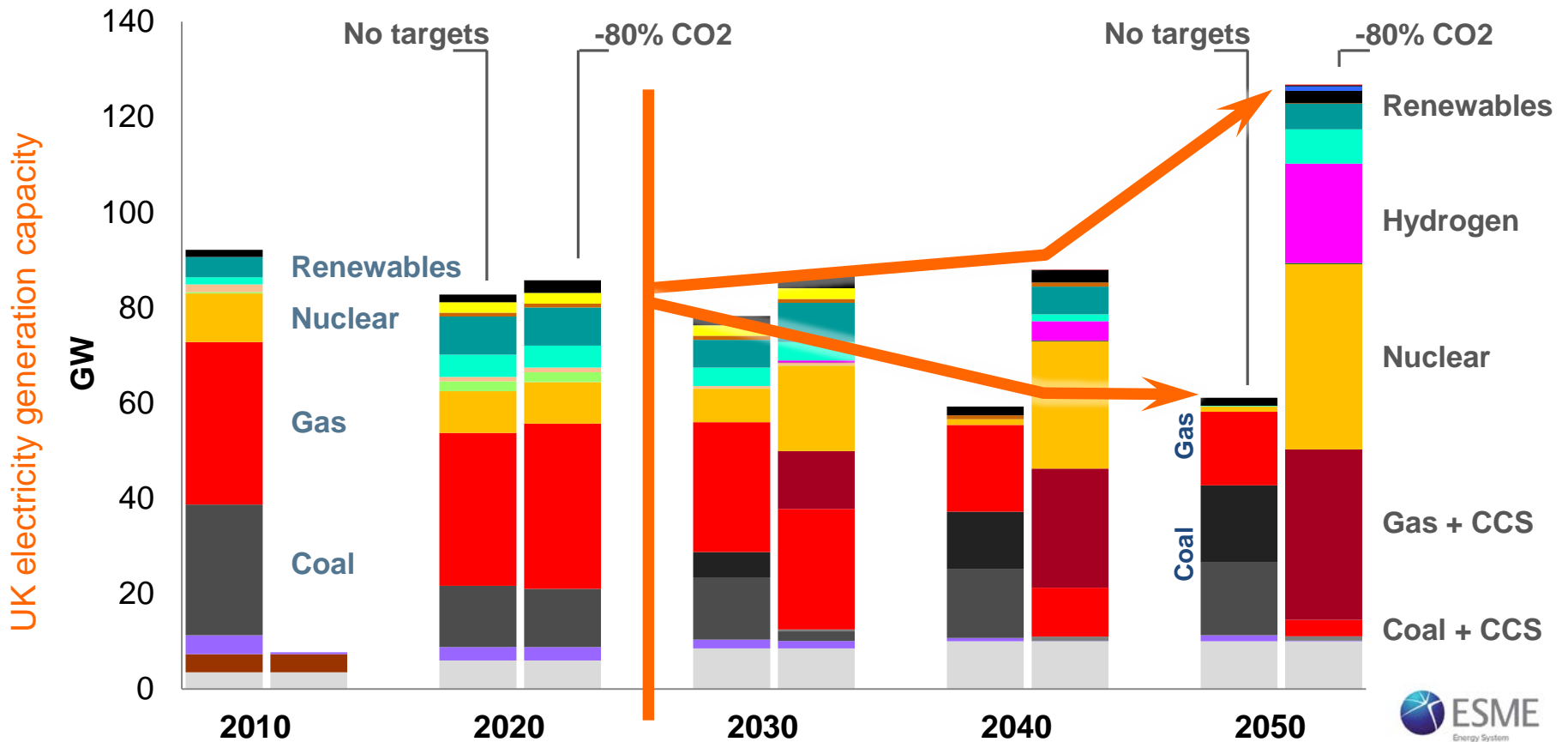


“No emissions targets” and “-80% CO₂ in 2050” are very different worlds...





As long as we prepare NOW, decisions on 2050 can wait... but not for long

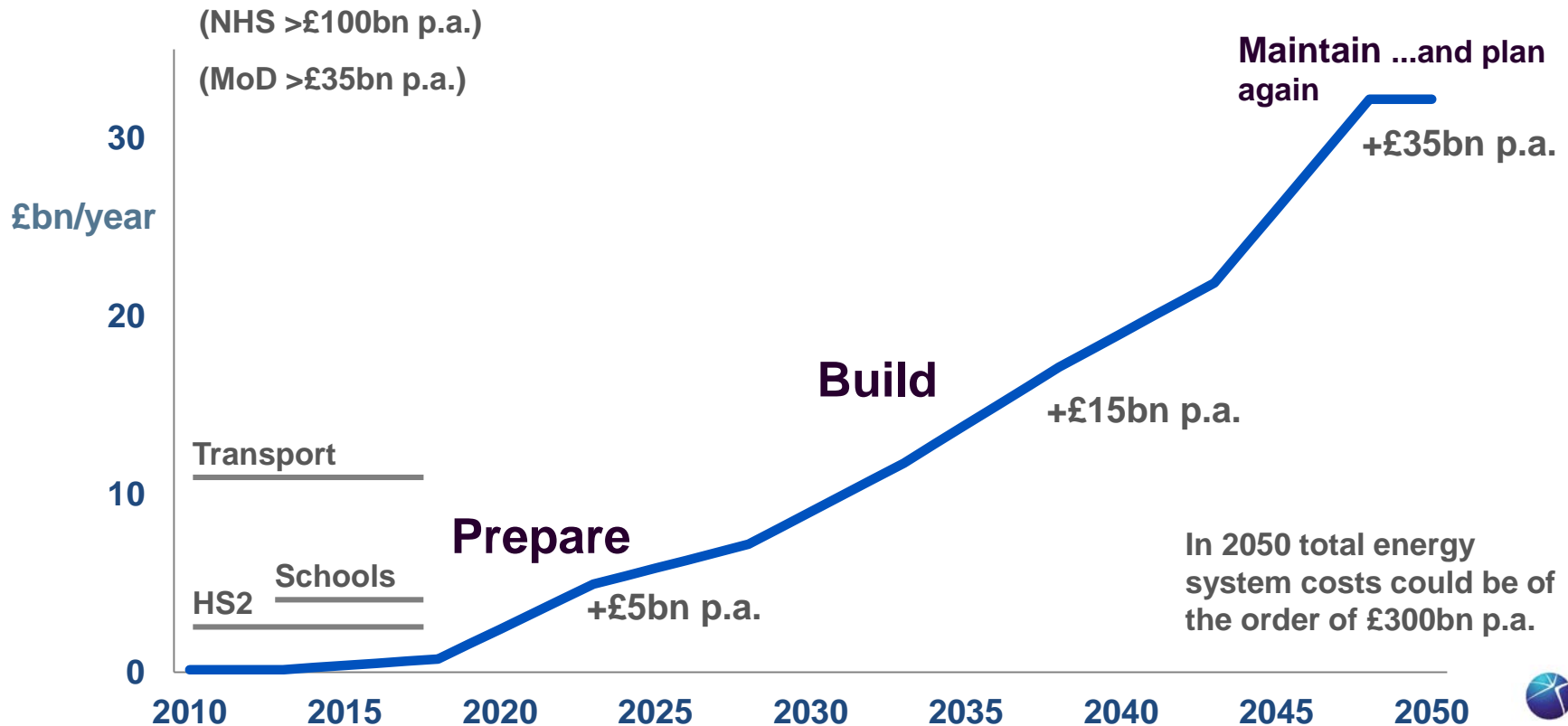




Prepare over next 10 years

creating platform for infrastructure roll-out and growth

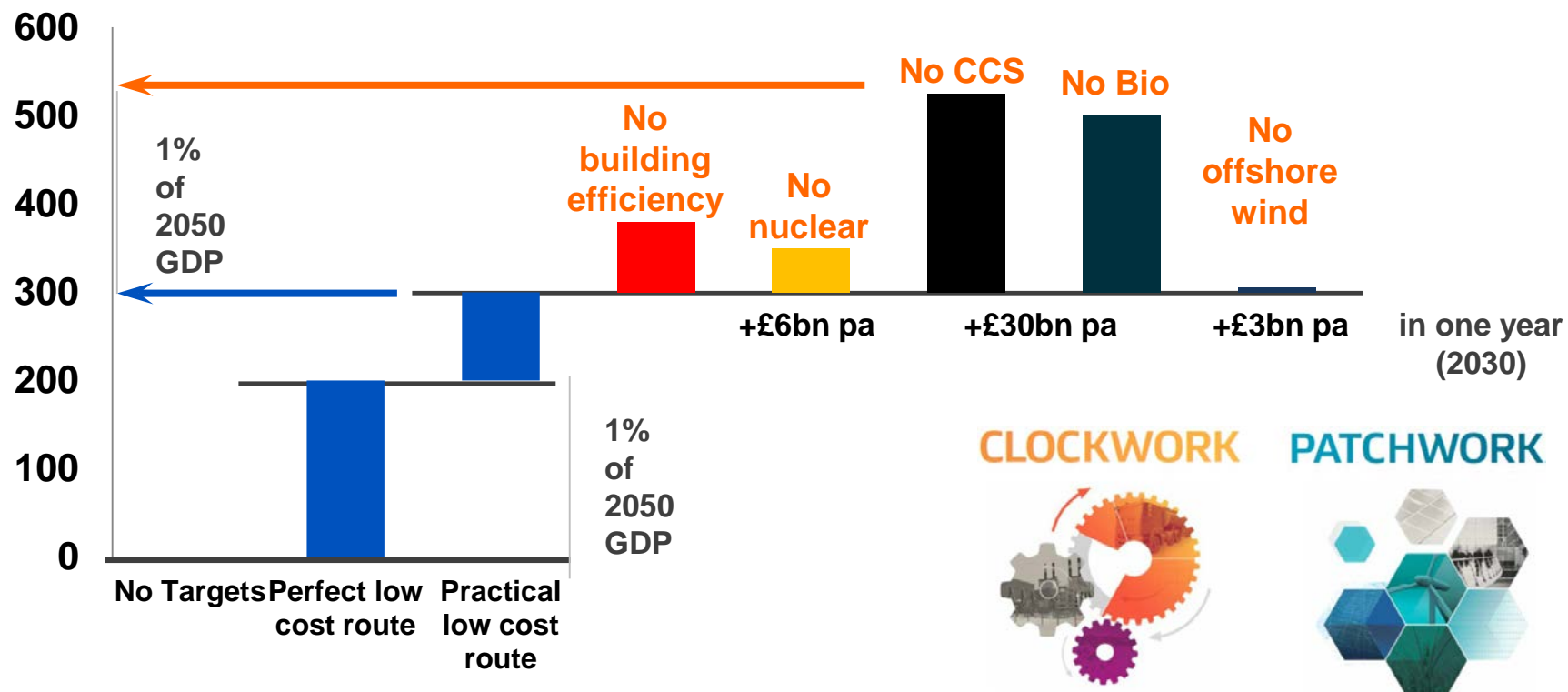
Incremental capital investment in a 'low-carbon' energy infrastructure





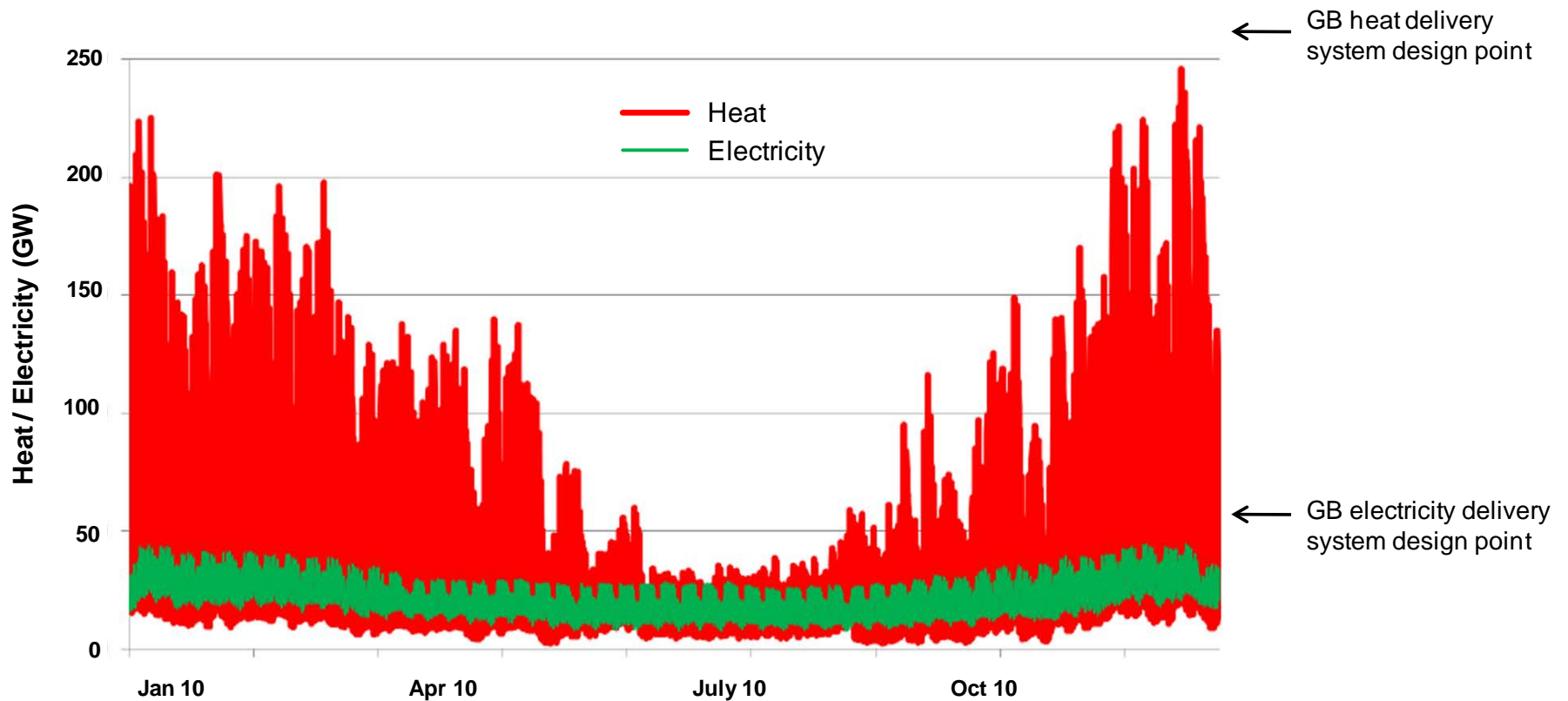
The UK can achieve an affordable transition (1-2% of GDP) - system optimisation is key

Additional cost of delivering -80% GHG energy system
NPV £ bn 2010-2050





GB heat and electricity demand variability (commercial & domestic - 2010)



Source: UKERC (2011)



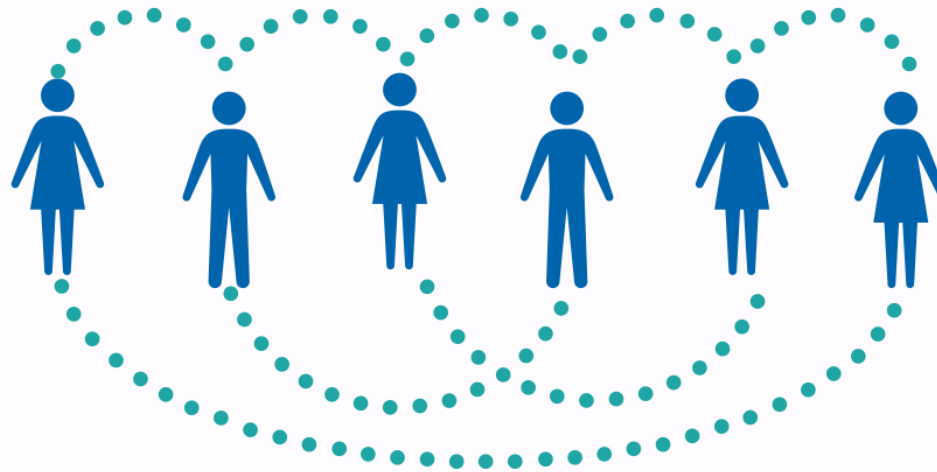
The UK needs innovation to help it meet its carbon targets



Successful innovation has several critical components: market confidence, finance, public policy and the capability to innovate



Successful innovation systems often involve open and iterative processes, which are complex



They depend on multiple interactions between different actors



Collaboration and shared understanding is required to help the innovation process



involving interactions across science, business and government to facilitate knowledge transfer and learning

it is easier to achieve a transition with a shared understanding of the drivers of new low carbon energy technologies





Registered Office
Energy Technologies Institute
Holywell Building
Holywell Park
Loughborough
LE11 3UZ



For all general enquiries
telephone the ETI on
01509 202020



For more information
about the ETI visit
www.eti.co.uk



For the latest ETI news
and announcements
email info@eti.co.uk



The ETI can also be
followed on Twitter
[@the_ETI](https://twitter.com/the_ETI)