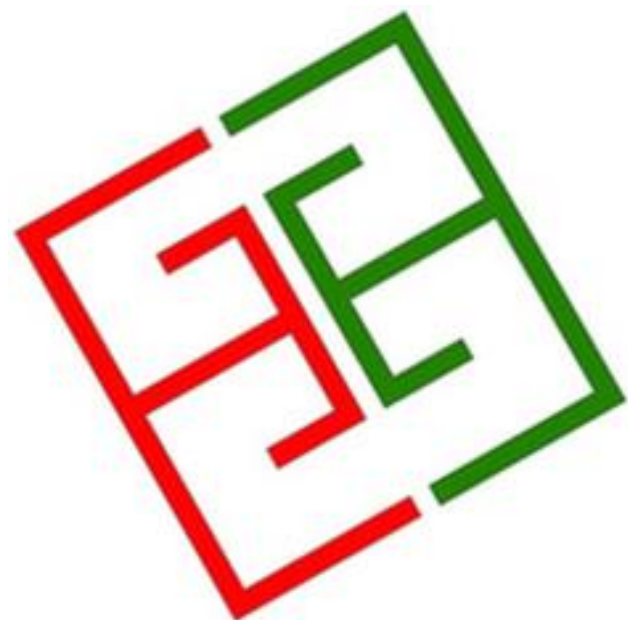
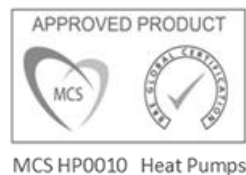




Global Energy

Systems



Agenda



- Who We Are
- Fuel Security
- How It Works
- The Market
- Blackpool & The Fylde College

Global Energy
Systems



Who We Are

A History of Technology

1880

The death of director of James Mills who was involved in major improvements made to the sewerage system and to the sewage treatment provision to substantially reduce pollution of the Thames Estuary and the North Sea between the years 1859 and 1865. Designed and manufactured 'The Moss Engine'.



1962

James Mills Morris, establishes in Lytham, Lancashire, Helical Springs which specializes in the design and manufacture of high performance valve and injector springs for customers that includes Rolls Royce



2012

Helical celebrates 50 year anniversary. Helical purchases its Warton, Lancashire based UK Test, Research and Development Centre.



1996

Helical Springs renamed Helical Technology to reflect the much wider range of products now manufactured.



1825

Matthew Mills founder of the Moss Iron Works and Mills engineering company in Heywood Lancashire.

1920

Matthew William Mills an engineer and inventor like his forefathers became a leading authority in the realms of sewerage machinery reviving the fortunes of the Mills engineering company also becomes a member of the institution of engineers established by Sir Thomas Holland.



1992

Turbocharger waste gate actuator production commences with lead customer Honeywell Turbo Technologies.



1987

First manufacture of valve rotators for supply to large diesel engine OEMs.

2002

Helical Funwick Engineering JV established in Kunshan, China.



2015

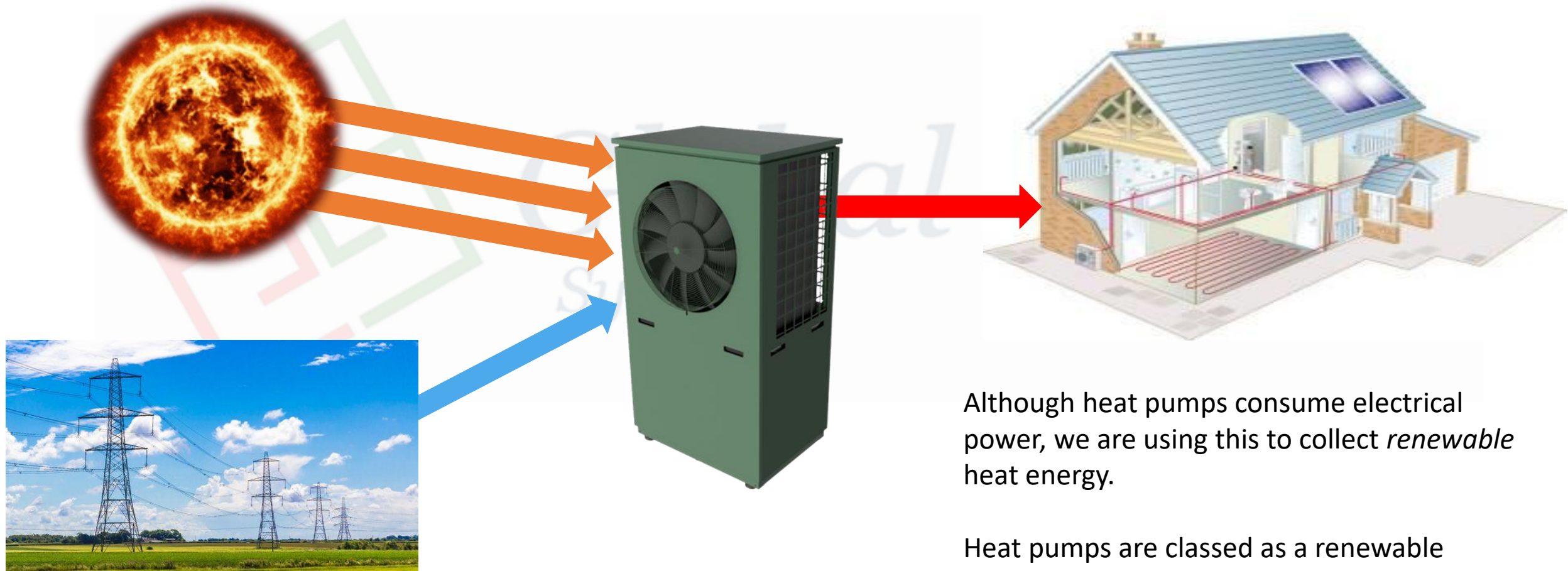
Helical's own Speed 12 supercar successfully trials at the Nürburgring





How It Works

How It Works



Although heat pumps consume electrical power, we are using this to collect *renewable* heat energy.

Heat pumps are classed as a renewable technology because they are *more* than **250%** efficient.

How It Works





Drivers for Change

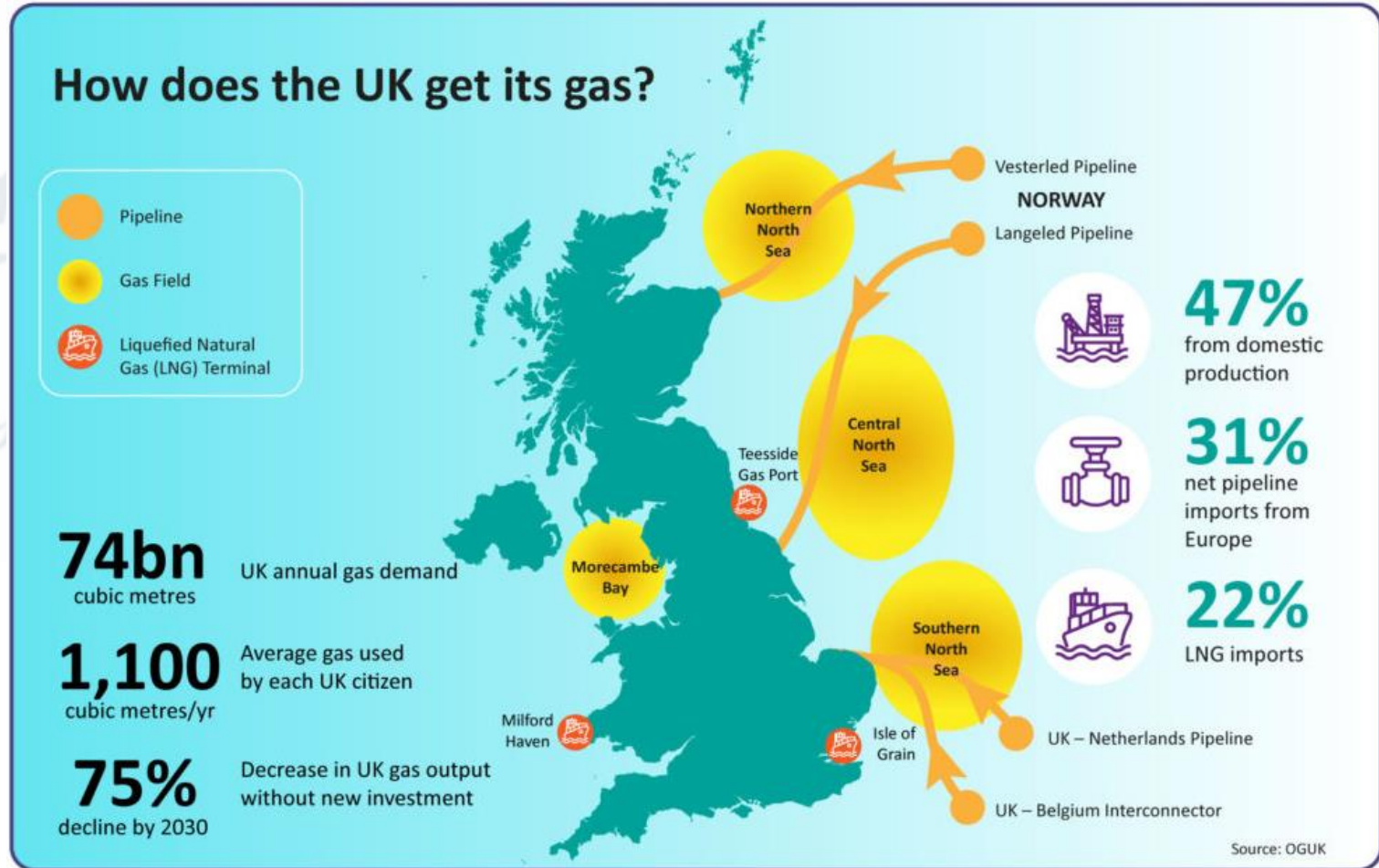
Drivers for Change



Fuel Security

“From self-sufficiency in 2004, the UK can now meet only half its own gas needs. Without investment, UK gas output will plummet another 75% by 2030.”

OGUK, October 2021





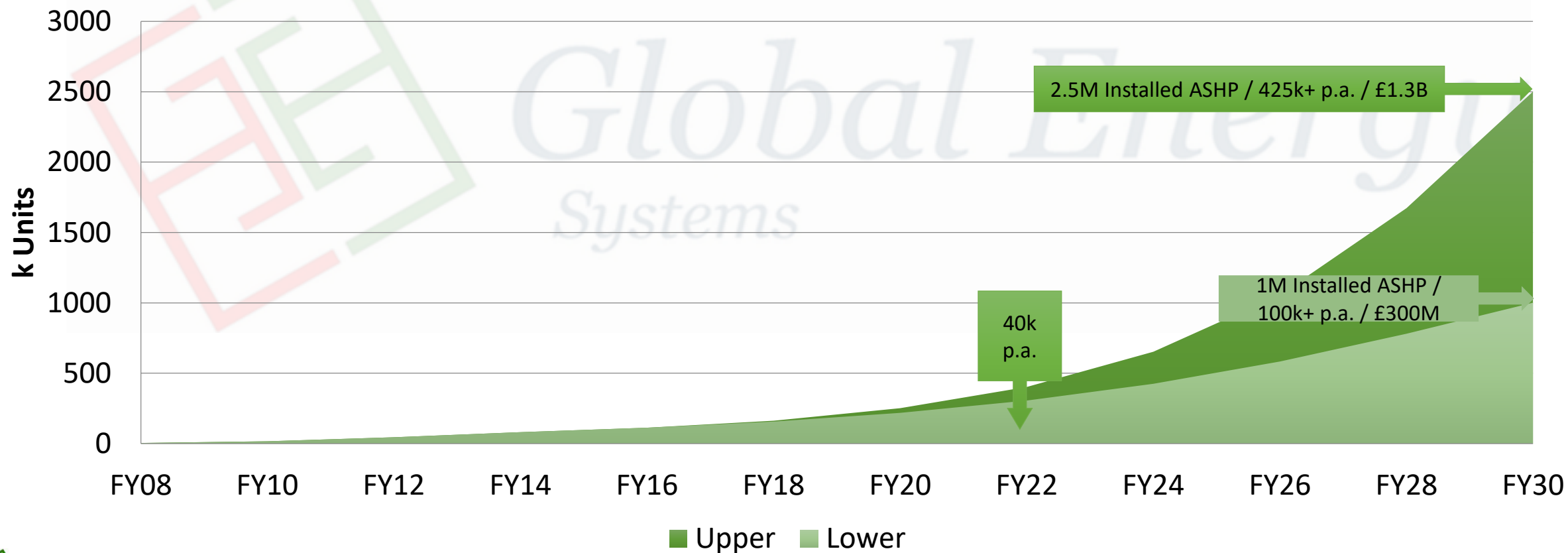
The Opportunity

Global Energy Systems

The Market – The Opportunity



Cumulative Quantity of Installed ASHP (UK)





Working in Partnership with Blackpool & the Fylde College

