

2020

2025

2030

2035

2040

2045

2050

UK decarbonisation target 57% reduction by 2030

UK net zero greenhouse gas emissions by 2050

HYDROGEN ROADMAP



Heat

Proof of concept hydrogen blending in gas grid (Hydeploy, Keele)

Industrial fuel switching to 100% hydrogen

City networks for hydrogen

8 million buildings use hydrogen

Proof of concept of 100% hydrogen in gas grid (Hydrogen 100 Project, Scotland)

Proof of concept for domestic appliances with 100% hydrogen

Awareness development programmes for general public gather pace

Establish social licence to operate

Establish regional hydrogen in gas grid

Regional conversion programme for hydrogen

10 million homes in conurbations use hydrogen



Hydrogen Infrastructure

Decision to proceed with CCUS investment

Design for industrial scale hydrogen production starts

Construction for industrial scale hydrogen production starts

Production of hydrogen at industrial scale commences

CCUS industrial cluster starts operation

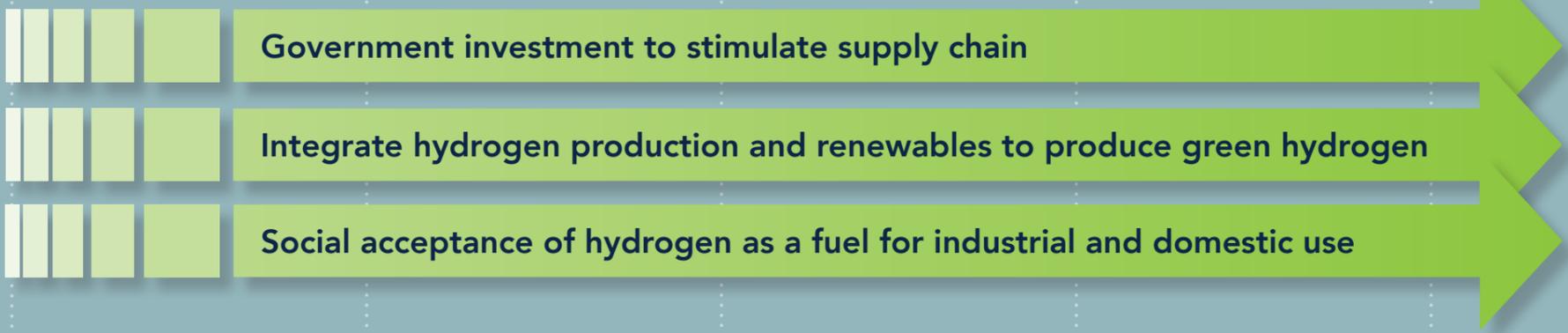
Further hydrogen production hubs increase capacity

Hydrogen from electrolysis grows significantly

Net-zero carbon industrial cluster operational

Global market for shipping hydrogen

- Enabling phase**
- Stakeholder engagement
 - Develop rigorous safety case
 - Select locations for industrial hydrogen production



TOWARDS 2050