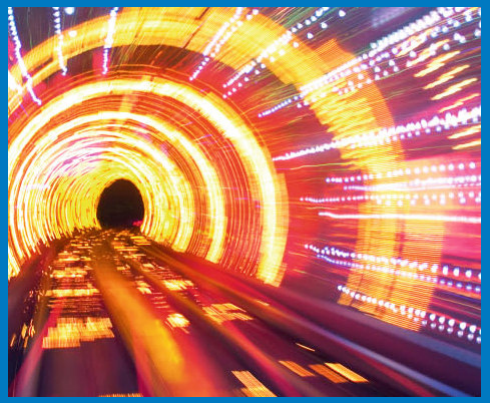
nationalgrid

UK Future Energy Scenarios 2013


Richard Smith
Head of Energy Strategy & Policy
National Grid

nationalgrid

Political uncertainty

nationalgrid

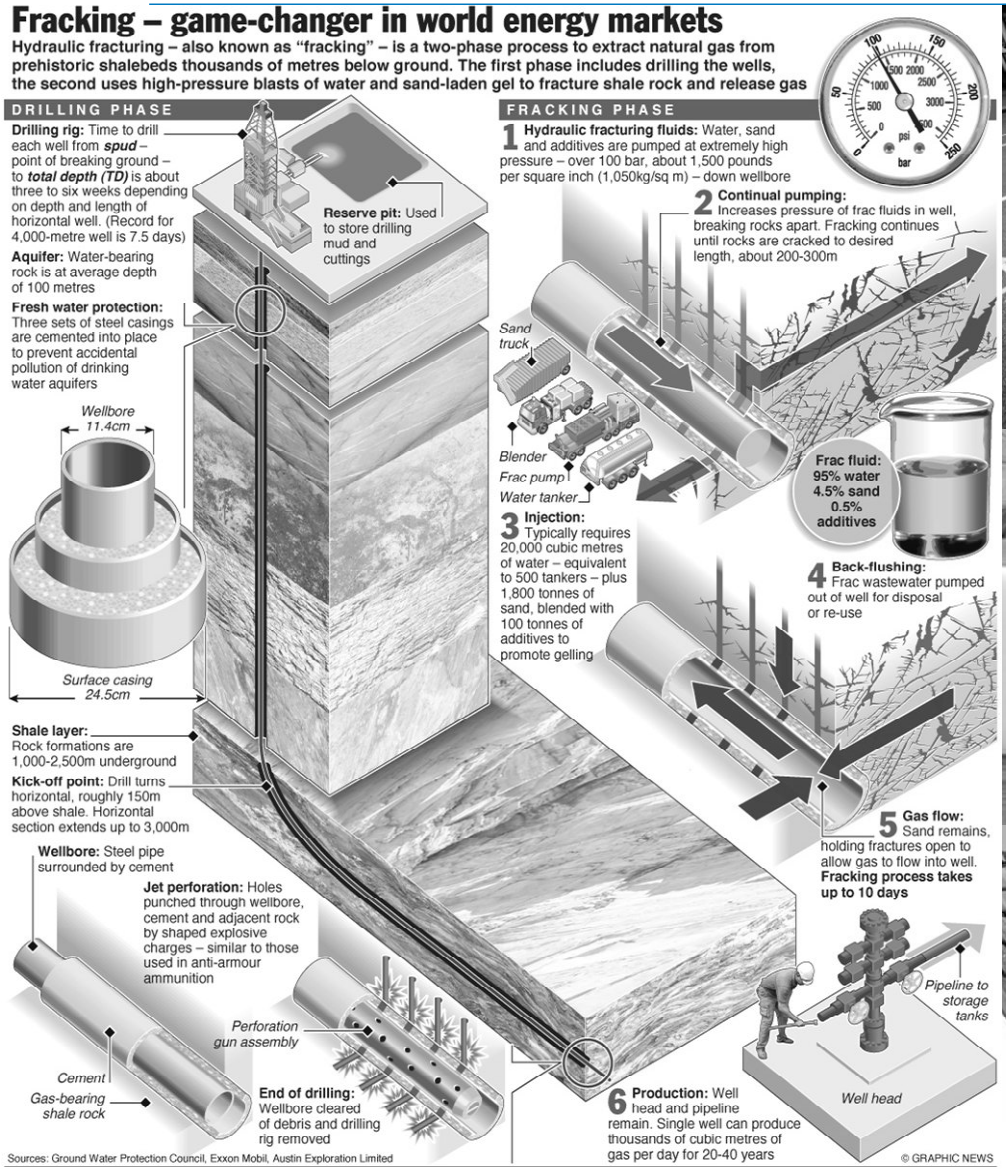
Economic uncertainty

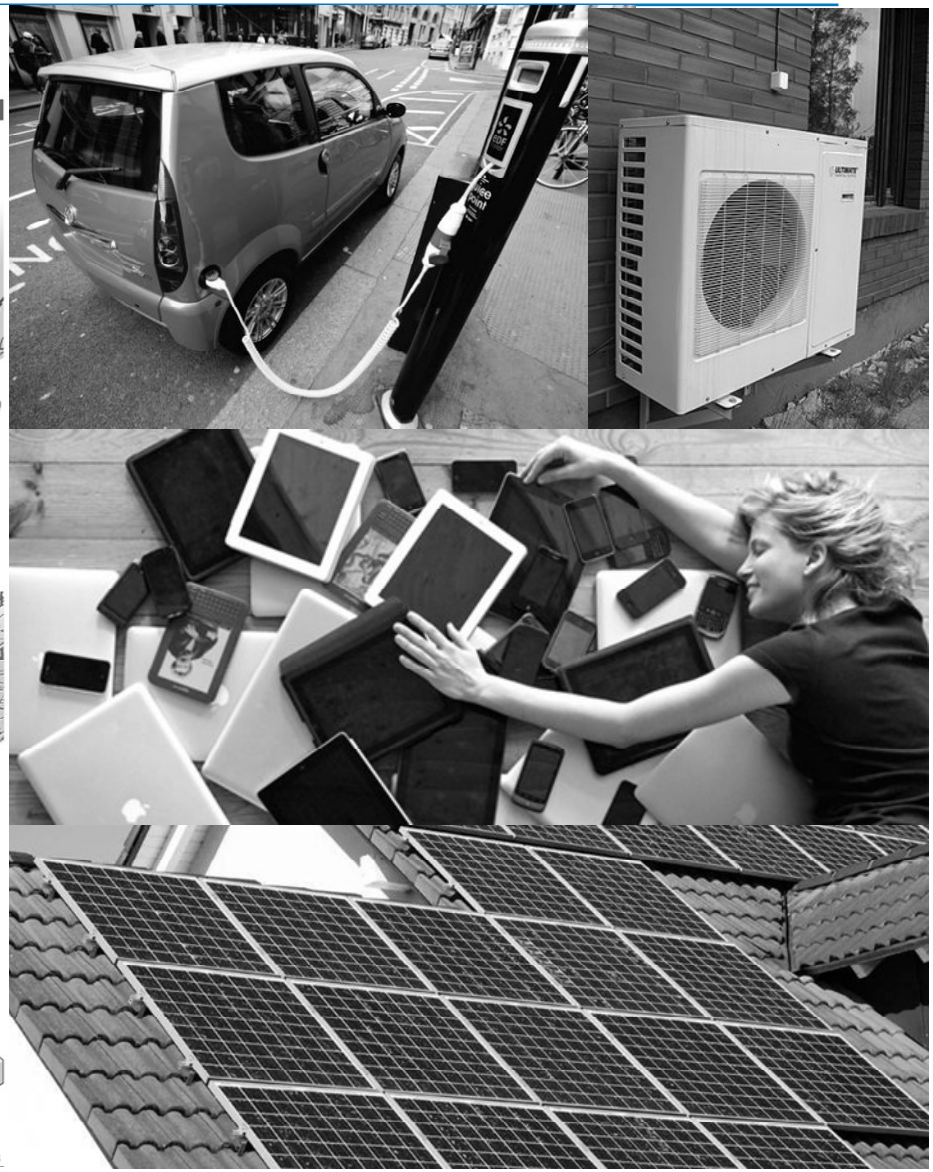
nationalgrid

Social uncertainty

nationalgrid

Technology uncertainty



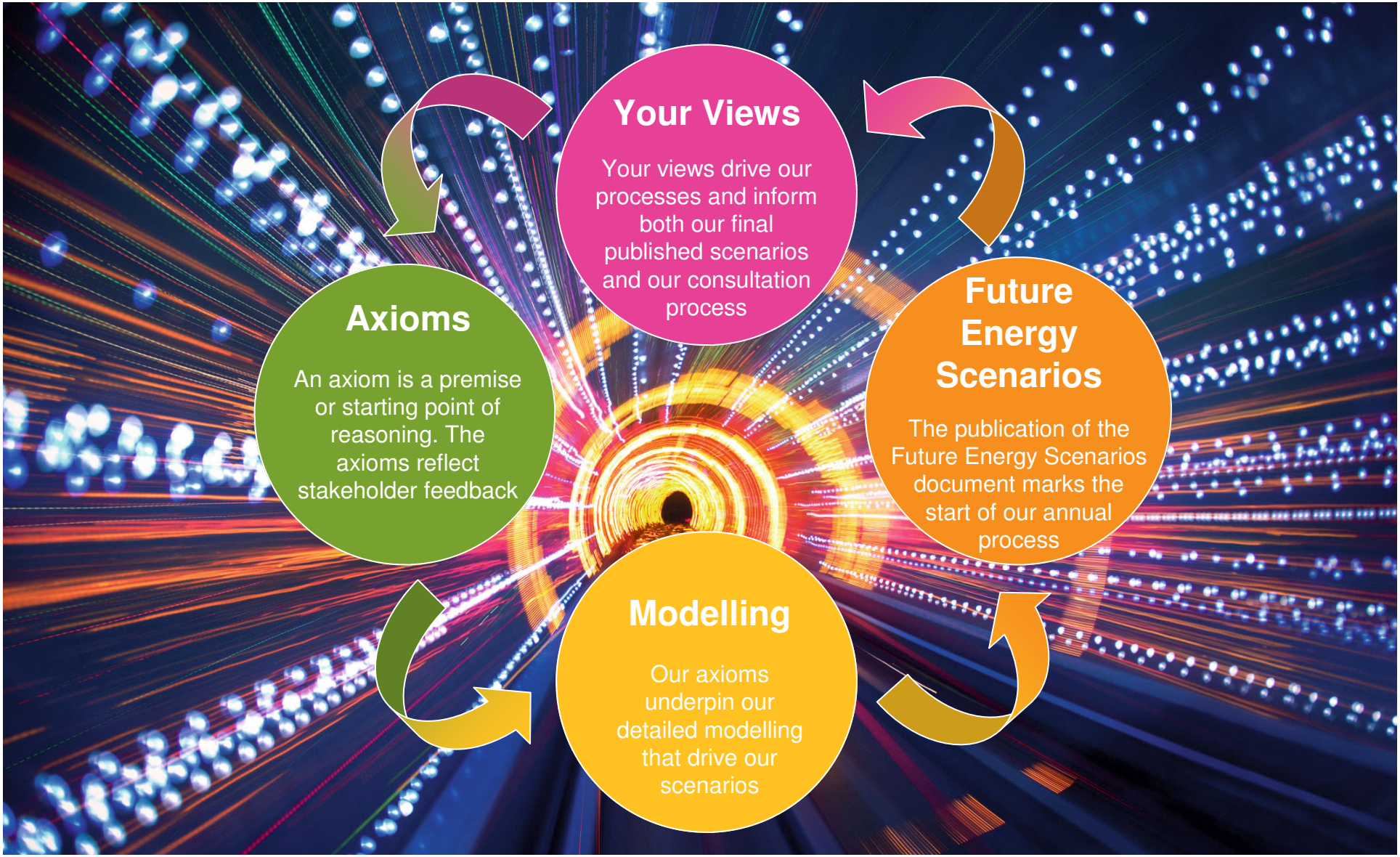


There are many possible future scenarios…

nationalgrid

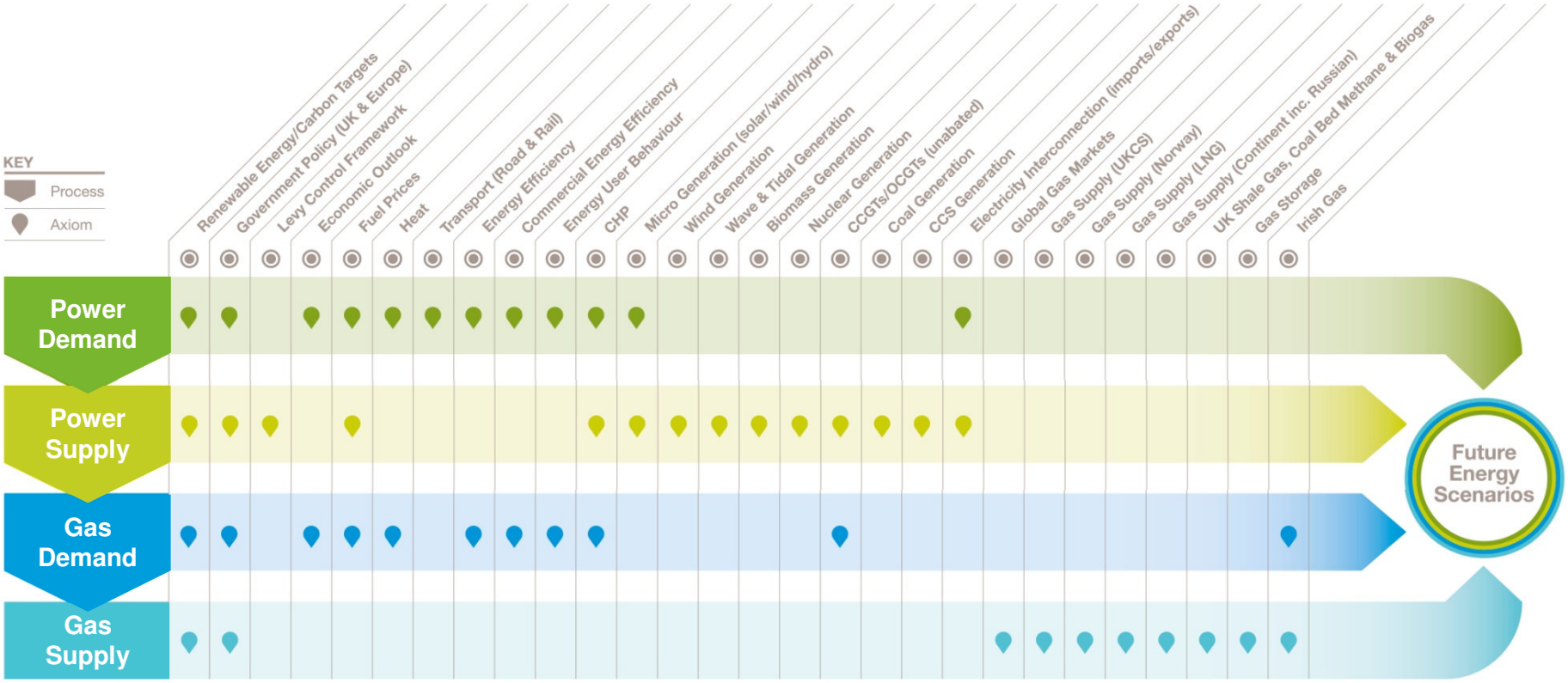
nationalgrid

So how do we create our scenarios?



nationalgrid

So how do we create our scenarios?



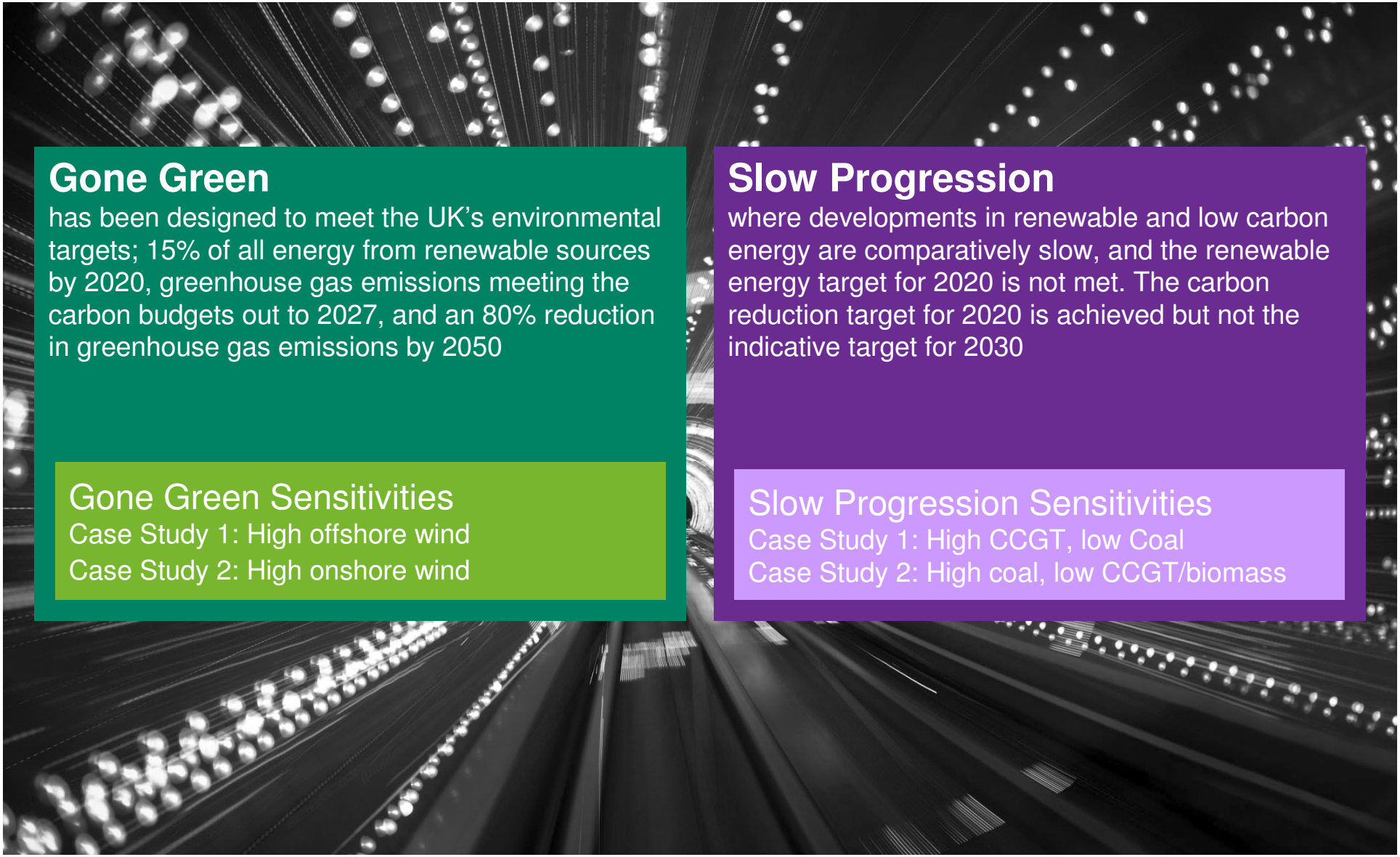
nationalgrid

What's changed?

- Accelerated Growth retired
- Axioms updated & amended
- Demand analysis improved
- New case studies

nationalgrid

Our 2013 Future Energy Scenarios…



Gone Green

has been designed to meet the UK's environmental targets; 15% of all energy from renewable sources by 2020, greenhouse gas emissions meeting the carbon budgets out to 2027, and an 80% reduction in greenhouse gas emissions by 2050

Gone Green Sensitivities

Case Study 1: High offshore wind

Case Study 2: High onshore wind

Slow Progression

where developments in renewable and low carbon energy are comparatively slow, and the renewable energy target for 2020 is not met. The carbon reduction target for 2020 is achieved but not the indicative target for 2030

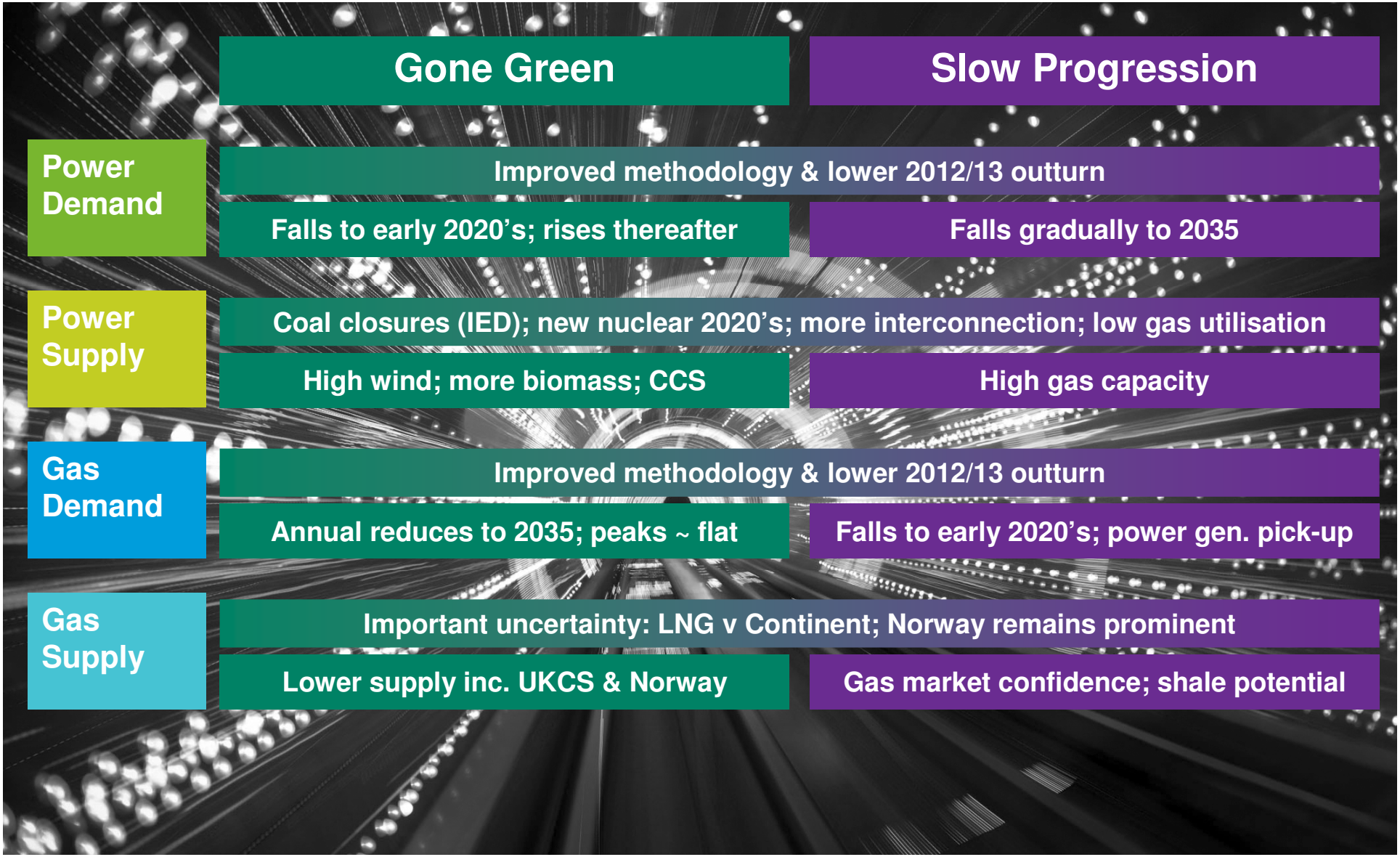
Slow Progression Sensitivities

Case Study 1: High CCGT, low Coal

Case Study 2: High coal, low CCGT/biomass

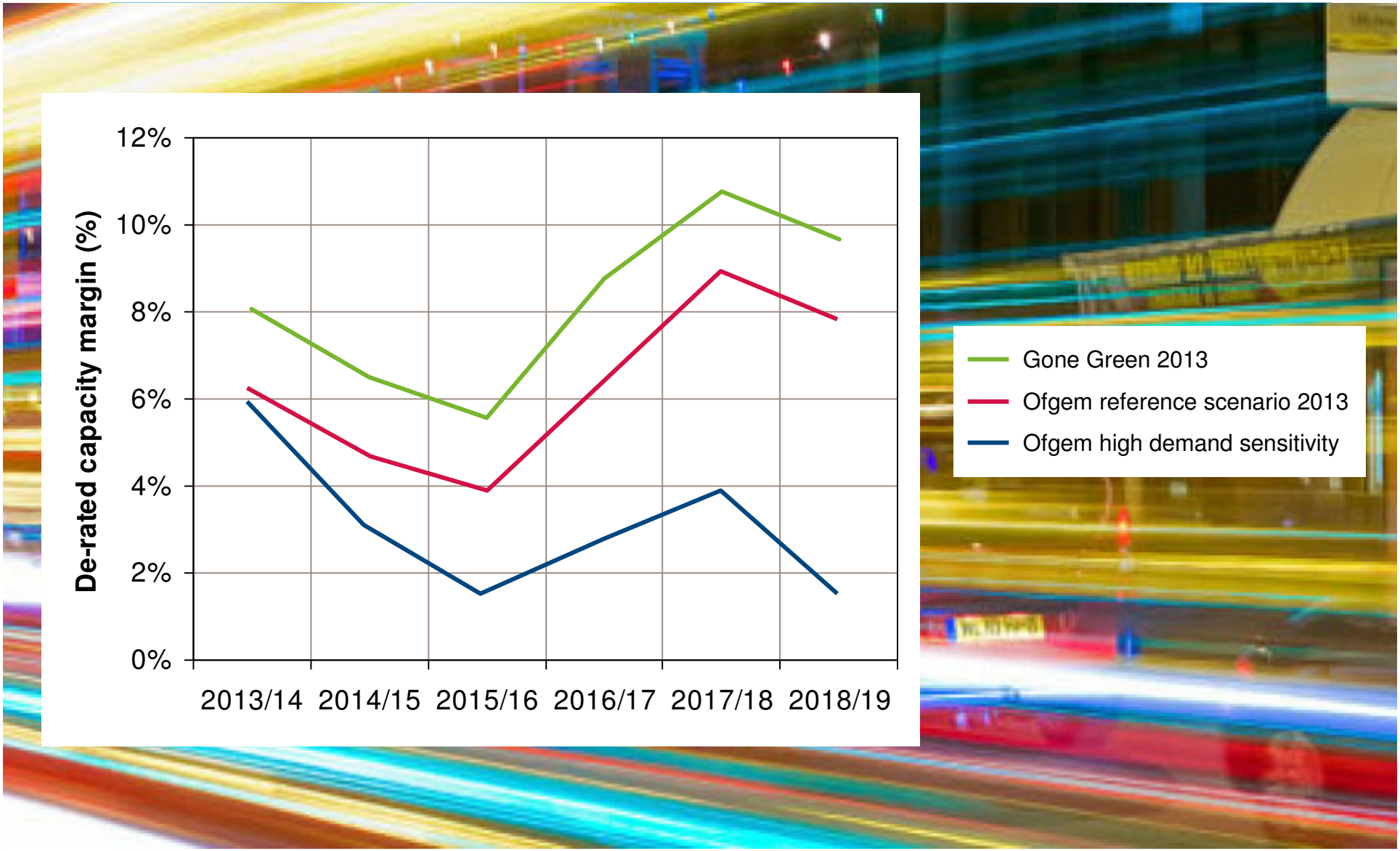
nationalgrid

Our 2013 Future Energy Scenarios…



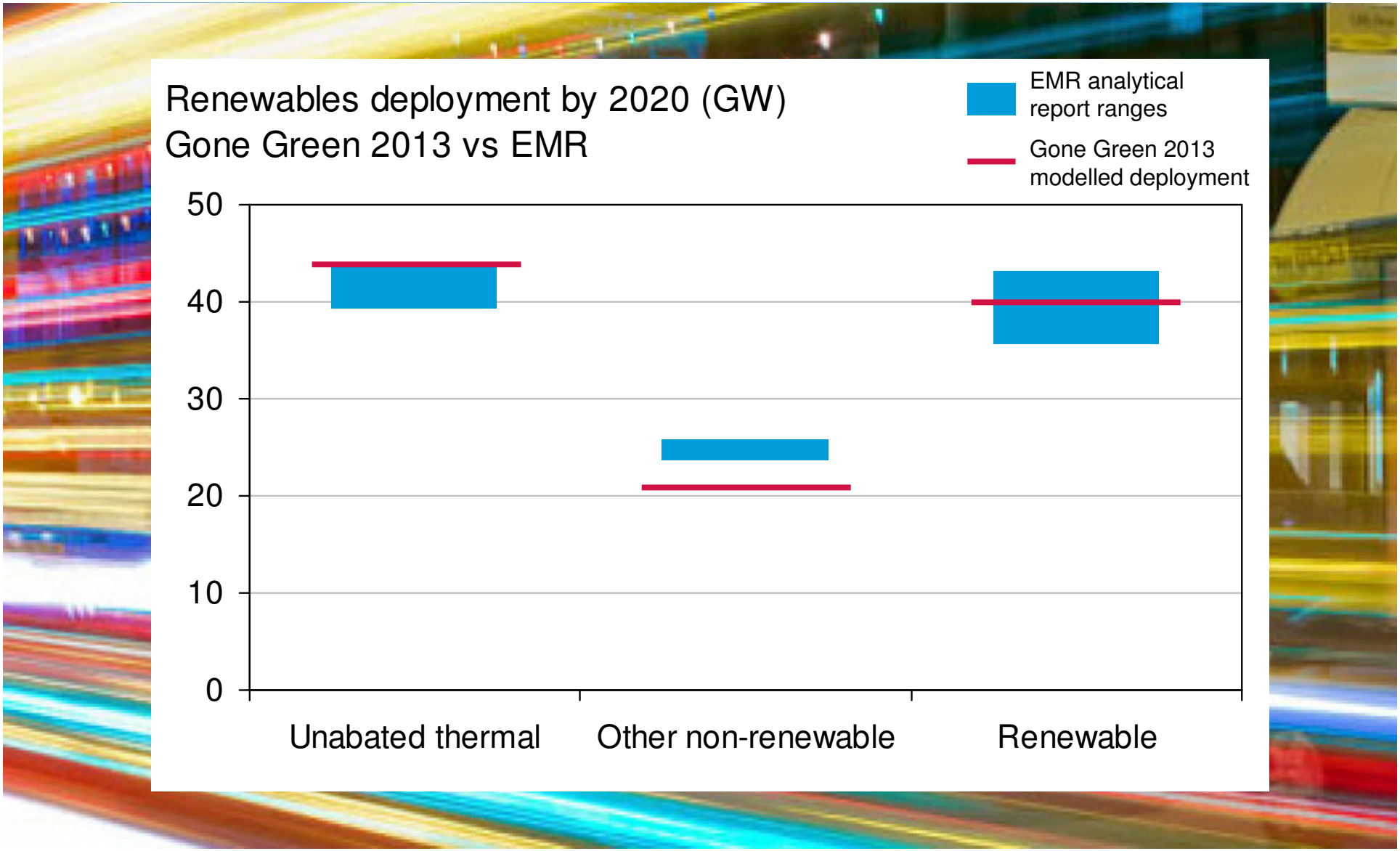
nationalgrid

Challenges in the shorter term…



nationalgrid

Confidence in the medium term…



nationalgrid

Summary