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# Region wide carbon capture and storage – initiating a network for Yorkshire and Humber

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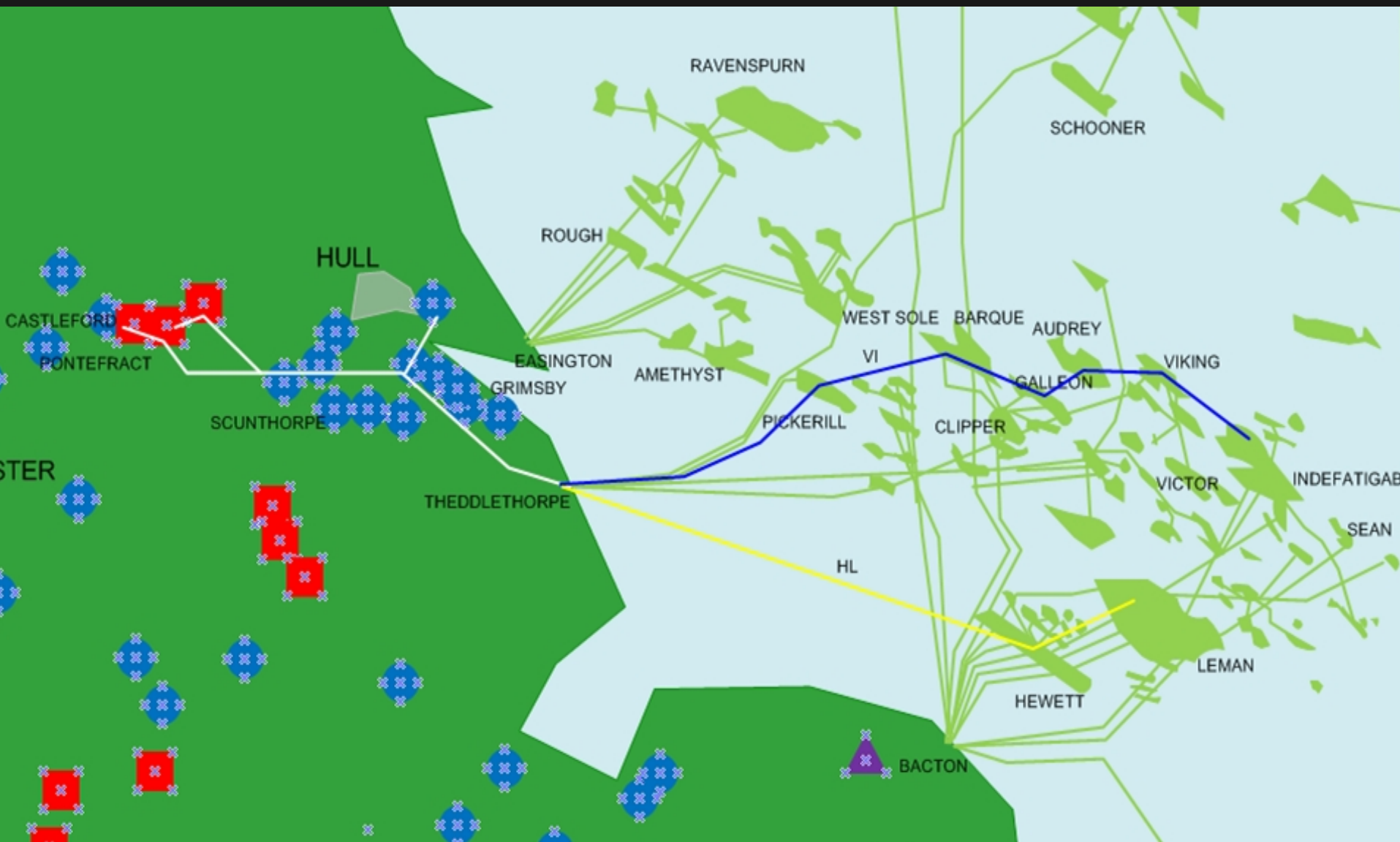
## Why CCS in Yorkshire and Humber

- ~ 60Mt of CO<sub>2</sub> emissions from single point sources
- Range of sectors – not just coal fired power generation
- Located in a relatively small geographic area
- Adjacent coastline to southern North Sea gas fields
- Considerable industry interest
- Opportunity to develop world class example of CCS



## Carbon Capture and Storage Partnership

- Original meeting of 19 stakeholders in June 2007
- Now 40 stakeholders in wider Partnership
- Undertook initial CO<sub>2</sub> transport network study
  - based on joint infrastructure that could serve all emitters
- Regional network more cost effective for each emitter than individual 'source to sink' projects
- CAPEX up to £4bn; 55,000 construction jobs; £30bn GVA
- CO<sub>2</sub> storage beyond 2050





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## Next Steps

- Steering group to develop business case for network initiation
  - Based on 'early movers' by ~2013
  - Develop commercial structure and financial model
  - Exploit funding opportunities
  - Engage local stakeholders
- Awareness raising activity
  - Engage at national level
  - EU Parliament & DG TREN Fossil Fuel Forum
  - Knowledge sharing with Rotterdam and others



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## Steering Group

- Yorkshire Forward (Chair)
- DECC
- ConocoPhillips
- Corus
- National Grid
- Powerfuel plc
- General Electric
- Air Products
- AMEC



## Conclusions

- Region uniquely placed to exploit CCS
- Coincidence of:
  - Cluster of large single point CO<sub>2</sub> sources
  - Proximity to depleting gas fields
- Potential to store up to 60mt CO<sub>2</sub> per year
- Network approach is more cost effective than individual 'source to sink' projects
- Opportunity to initiate in next five years through partnership
- Meet UK energy, climate change and low carbon industrial goals