

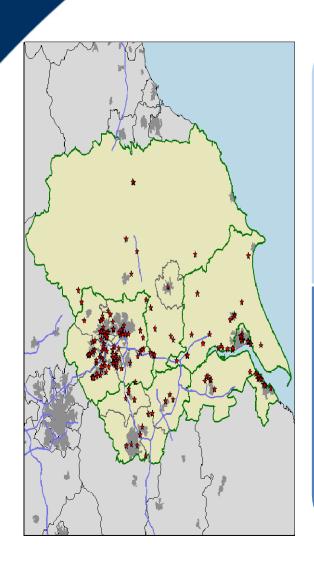


What I'd like to cover today

- v Introduction
- V Brief Overview of Humber Scale Industrial Development
- v Transition to Renewable Process & Power Sector
- V HCF Work and Partnering Model
- v Questions



Our Region



As a region £80 billion GVA

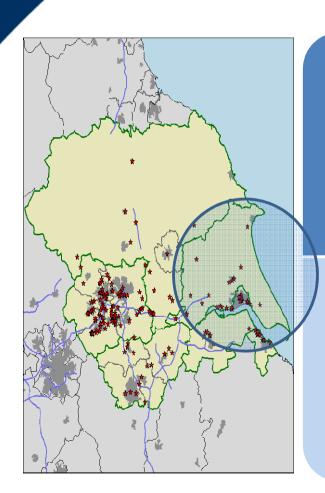
Population 5 million

Yorkshire & Humber

Chemicals 10% UK Output Energy
15%+ UK
Generation &
Distribution



Focus Today: The Humber Estuary Area



Maritime & Estuary Location

UK's Largest Ports Infrastructure

The Humber

Chemicals
€8 billion Output

Energy
15%+ of UK's
Generation & Fuels



Developing A Humber Renewables Network



90's

Port Infrastructure CHP's Corridor 00's

Polymers
Pipelines
Ports Development
New CHP's
Off-shore Gas

2010's.....

Bio-Fuels
Bio-mass to Energy
Food waste to Energy
South Bank
Gas Pipelines
CHP Expansion
Oleochemicals
Energy Integration
Wind
Carbon Capturing & Storage

80's

Gas Power
Stations
Refinery
Expansions
Polymers
Specialty Gases
Specialty Chems

Industrial Development in the Humber's Process and Energy Industries

70's

Off-On Shore Gas
Energy
Specialty Chemicals
Drax

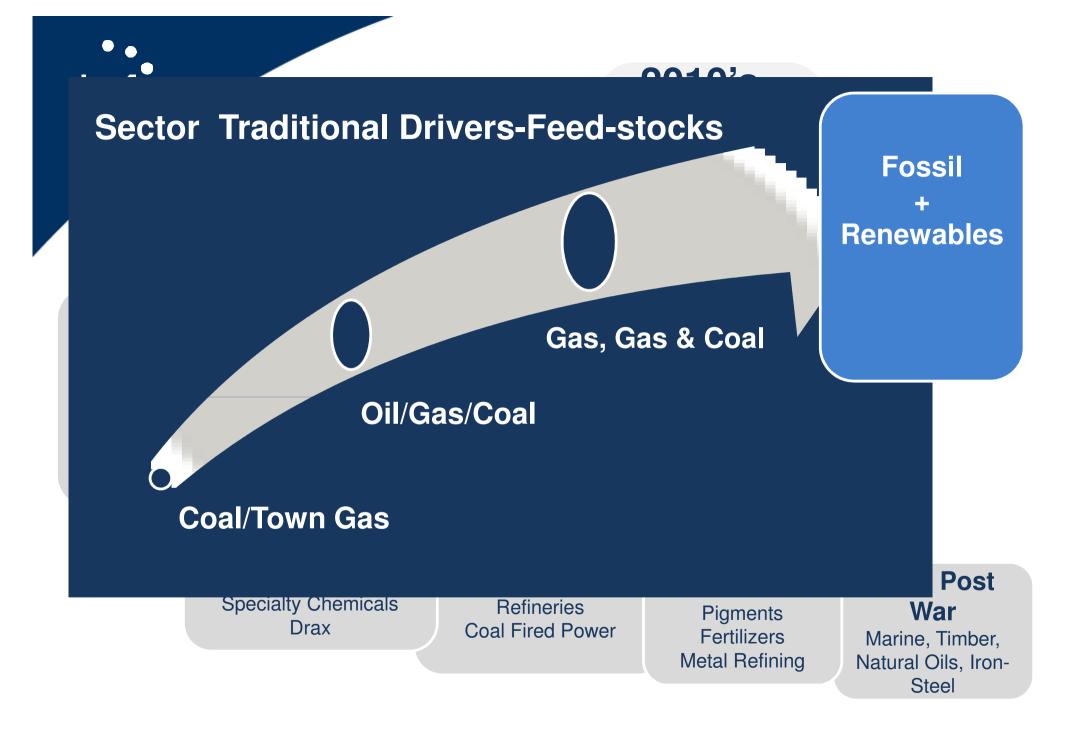
60's

Commodity Chemicals
N Sea Gas
Refineries
Coal Fired Power

50's

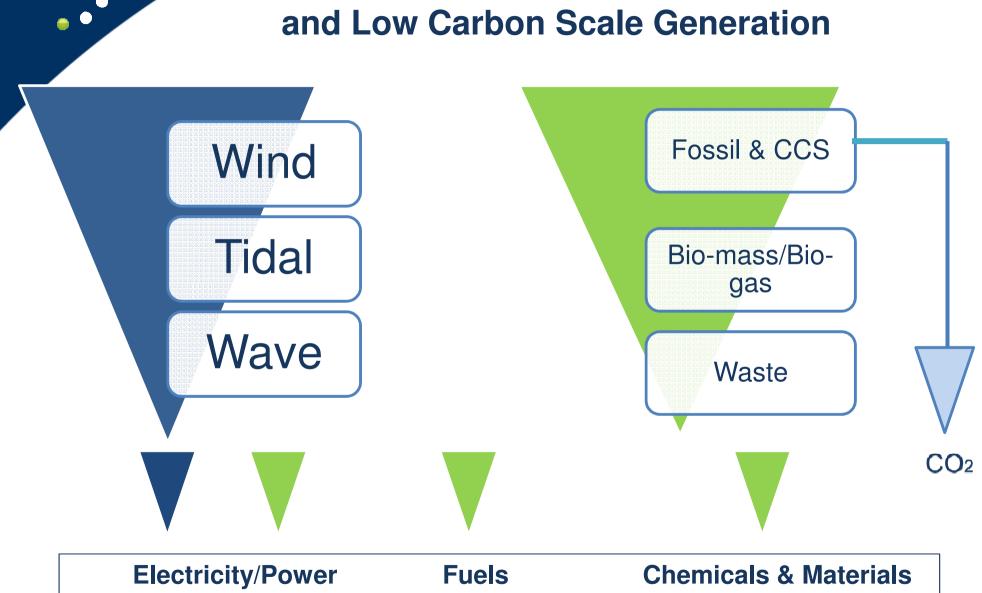
Pigments Fertilizers Metal Refining 40's

Marine, Timber, Natural Oils, Iron-Steel





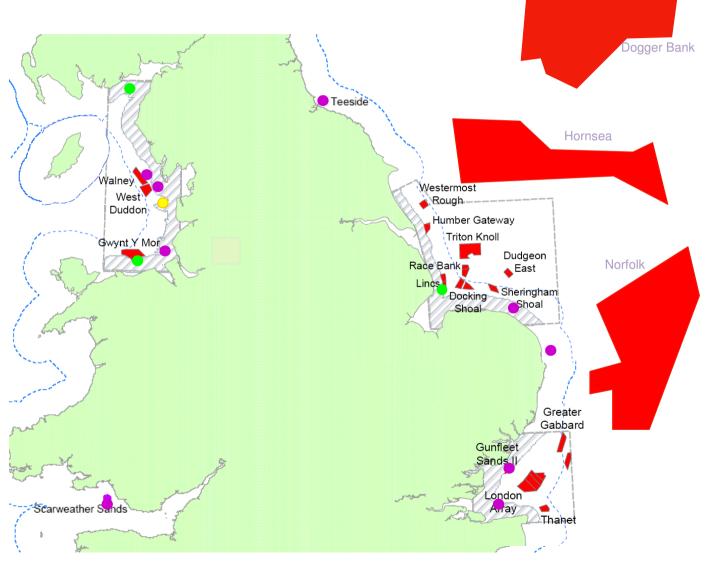
Humber: A Natural Location for Renewable and Low Carbon Scale Generation



UK New Wind Energy Developments:
Crown Estate Offshore Wind
Licensing Rounds

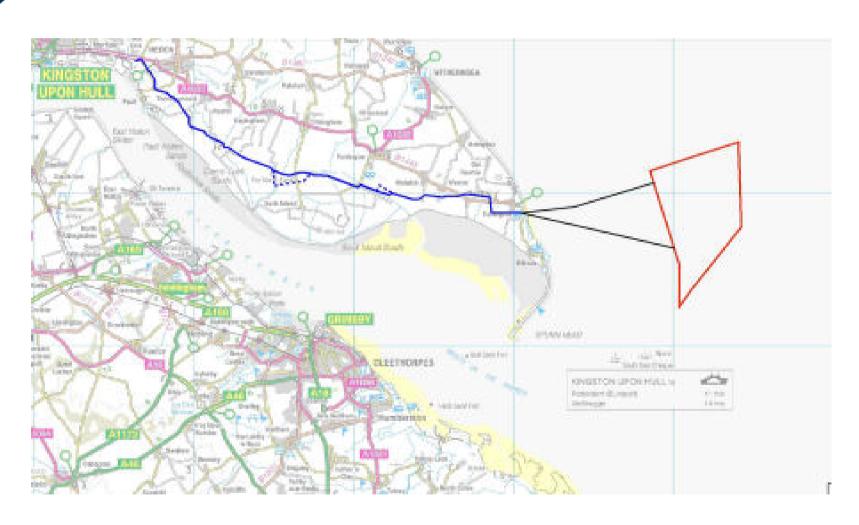
- 1. ~1500 MW
- 2. ~7100 MW
- 3. ~ 32,000MW

Just the 3 East Coast English Zones shown ~ 20,000MW





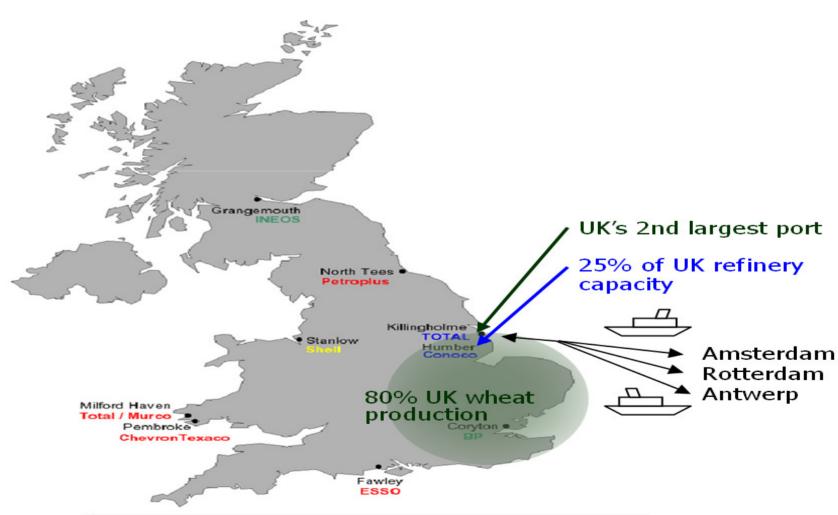
Wind Power Investment



E.ON



Renewable Clean Fuels Humber Bio-fuel Manufacturing, Storage & Distribution



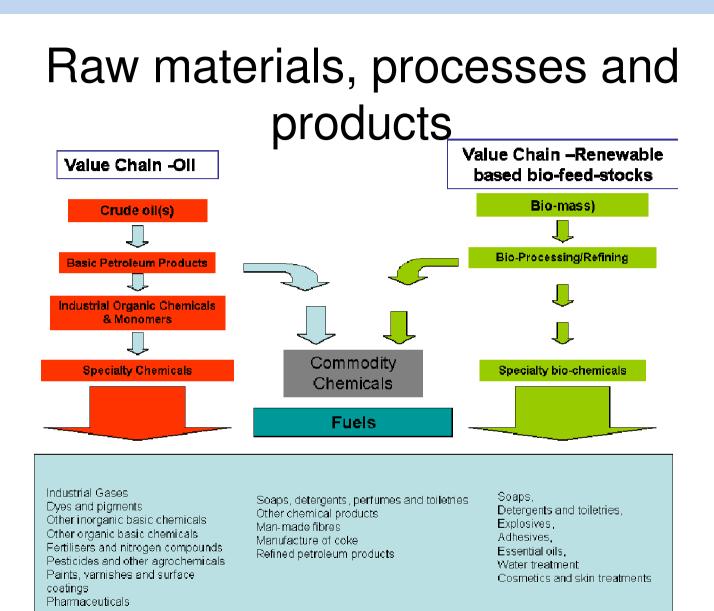


Bio-mass to Energy



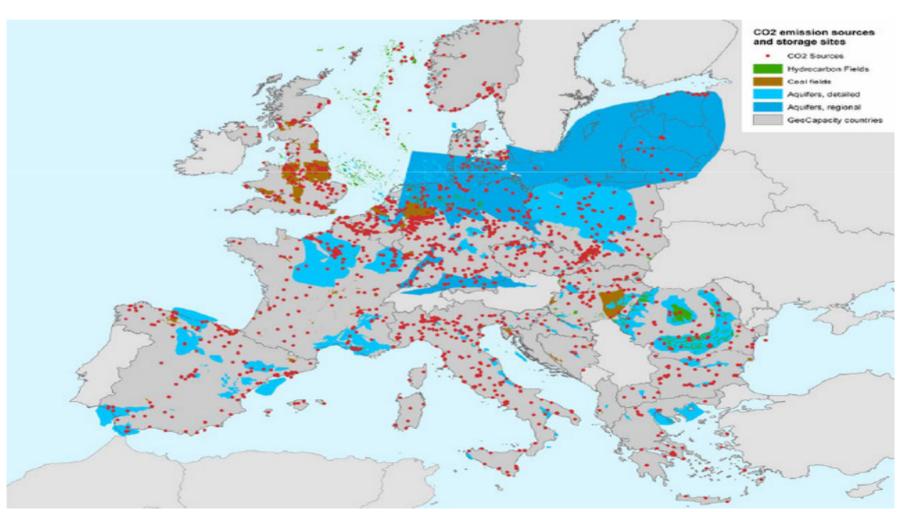


Drax



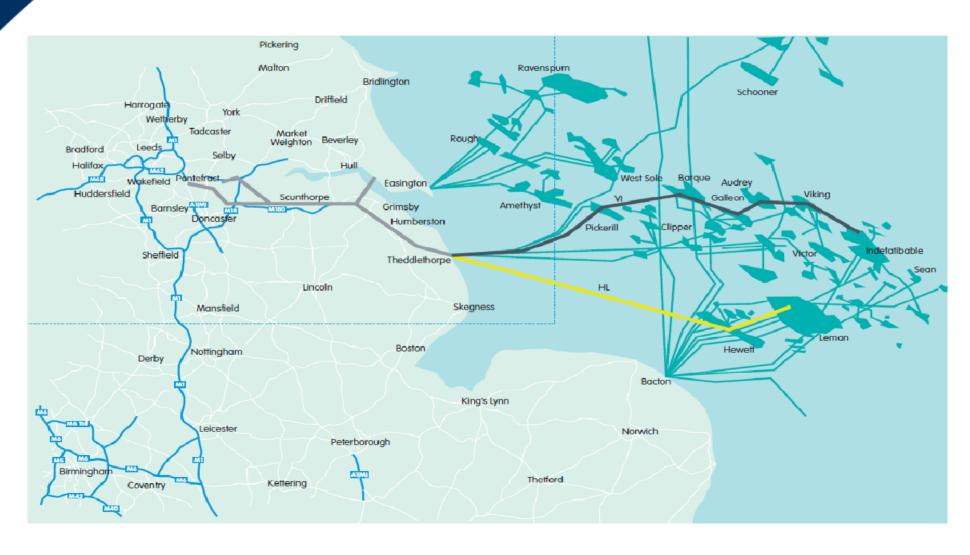


Yorkshire & Humber and Low Carbon Agenda CO₂ Emissions and Strategic Storage Potential



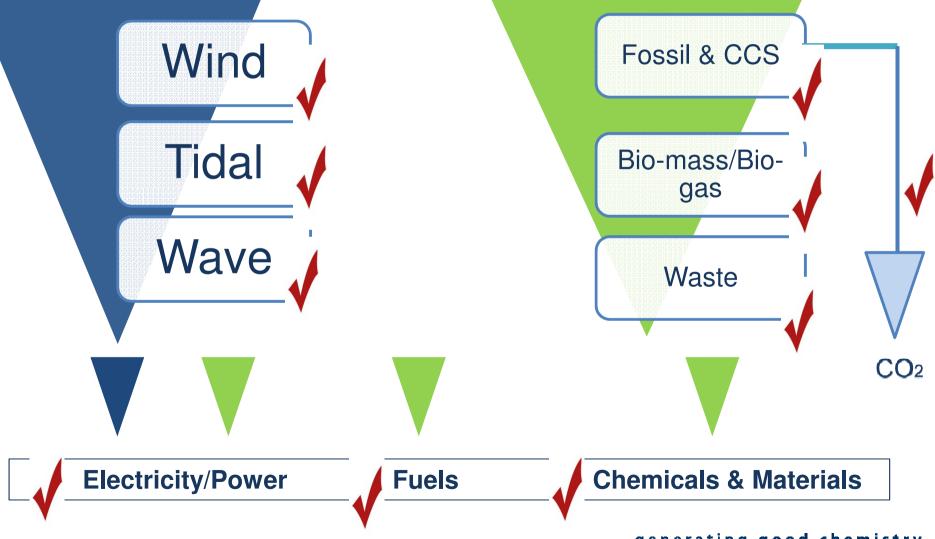


Regional Carbon Capture & Storage Development-Proposal





Humber: A Renewable & Low Carbon Future!





About HCF

Private-Public Sector Business Partnership

100 members 5 Staff

£300 k turn-over

Serving:

£6 billion process sector

The Humber Region

USP's

Publicprivate sector interface

CATCH Training Facility

USP's

Local Economic Sector Knowledge

Network Development



The Networks Business Focus

Reducing costs

Workforce development

Investment in assets and productivity

Engage local Communities



Our Humber Membership & Network Focus

Growth and Economic Development

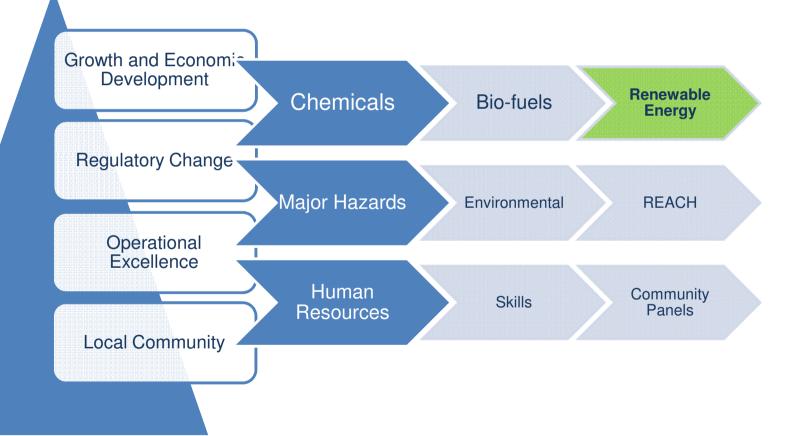
Regulatory Change

Operational Excellence

Local Community



Our Humber Network(s) Focus



Humber Renewable Network

2006 IBM Research

2007/9 Hull Forward Development & Leadership

Pan-Humber

40+ Members/Attendees

Marketing

2009 - HCF Acquired Network Responsibility

Survey

Expanding membership

New Marketing Materials

Briefings

Research

Supporting a new energy cluster approach

Strategic Influence to UK Government



Humber Renewables Network

Focus:

Scale & Strategic Industrial Developments

Participants:

Companies, Government Agencies, NGO's, Community

Activity:

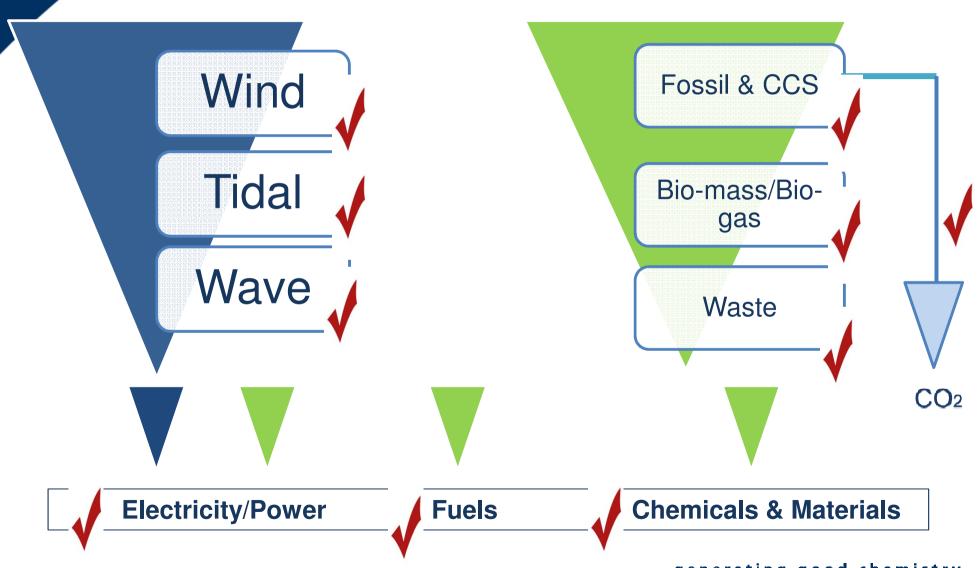
Information & Knowledge Exchange

Strategic Influencing

Building local 'scale' to make a difference e.g interventions



We will have all this!



generating good chemistry



Summary



Renewables

A new and key economic sector for the Humber



Our Role

Leveraged as a proven cluster vehicle to build new relationship group





Strategic Outcomes
Economic Development

Performance



generating good chemistry

Thank You