Humber Nature Conference 26th November 2019

Alex Codd, Assistant Director Economic Development & Regeneration

Hull: A City at the front of responding to a changing climate

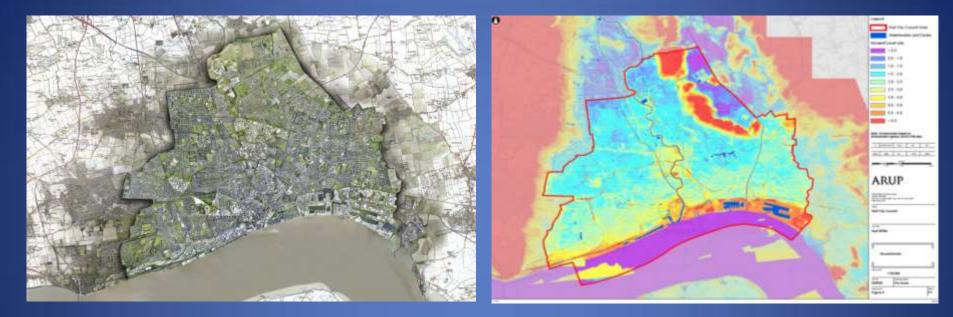


Overview

- Significance of Water to Hull
- Action Already taken
- Local Industrial strategy and focus on decarbonisation
- Offshore Wind
- Zero Carbon Motion
- Autumn 2019 Floods



Flood risk: from marshland to City of Culture



Types of flood risk in Hull:

Fluvial Sewer Tidal Groundwater Surface water

















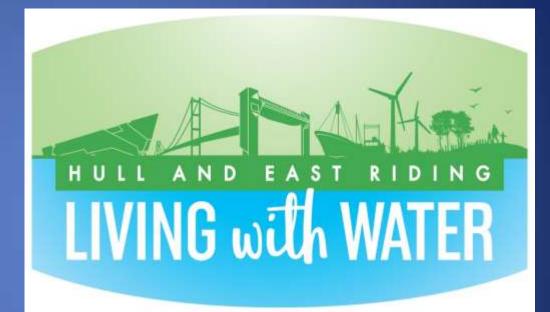






Action Already Taken

- Covers Hull & the west Hull villages
- A partnership of Hull & the East Riding of Yorkshire Councils, the Environment Agency and Yorkshire Water
- Total investment of over £250 million
- (80%) Defra Flood Defence Grant
- (10%) Humber Local Enterprise Partnership Growth Fund
- (10%) European
 Regional Development
 Fund Priority Axis 5





Environment Agency Schemes

- River Hull defences:
- £60 million (for phases 1 and 2 and River Hull+)
- Better protects around 6000 properties
- Due for completion in March 2021





Environment Agency Schemes

- Tidal barrier:
- Built in 1980
- Had a £10 million refurb in 2009-2010
- Protects around 17,000 properties
- Replacement £50-100 million
- Nationally Listed in 2017 alongside Humber Bridge





Environment Agency schemes

- Albert Dock flood wall:
- £6million
- Completed in 2015
- Emergency works after 2013 tidal surge
- Better protects 150+ properties and 150+ businesses
- Safeguarded jobs at Smith and Nephew





West Hull Flood Alleviation Schemes





Cottingham & Orchard Park FAS

- Total Project Costs £22 million
- AEP 1.33%
- 5741 residences
- 333 businesses
- 233 Ha land
- Started on site June 17
- Completion due December 2019





Willerby and Derringham FAS

- Total Project cost £14m
- AEP 1.33% (inc. climate change)
- 8,000 residential properties
- Started in 2014
- Completed in 2017
- Can hold 232,000m³ of water





Anlaby and East Ella FAS

- Total Project Costs £21m
- AEP 1.33%
- 4495 residences
- 74 businesses
- 87Ha land
- Started on site June 2016
- Completion due March 2020





Hull and Holderness FAS

- Total Project Costs £5 million
- AEP 0.5%
- 600 properties
- Started on site May 2016
- Completed March 2018



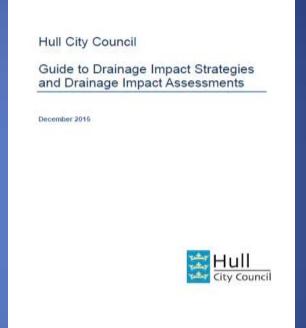






Drainage Impact Assessment

- Required for all major applications
- Must demonstrate how surface water will be retained within the development and only discharged at an appropriate rate
- Encourages the use of SuDS
- Sets out maximum discharge rates





Local Industrial strategy and focus on decarbonisation

- Energy Estuary
- Strategic Importance of Hull and the Humber
- Focus on decarbonisation
- Climate change opportunity
- University and Knowledge key
 - Project Aura
 - Arc Project

















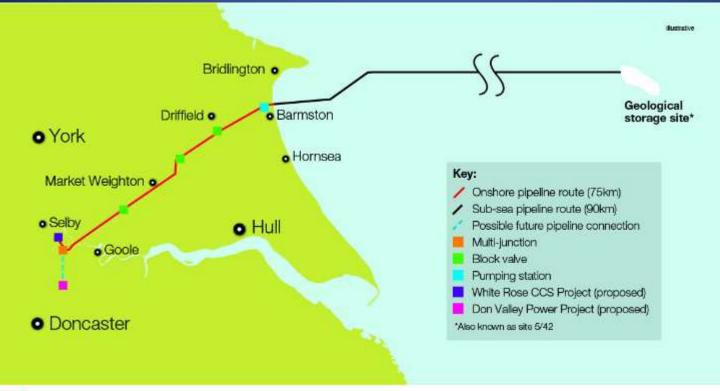














Co-financed by the European Union's European Energy Programme for Recovery.







Northern Powerhouse Energy Conference









Alexandra Dock from carbon...





Alexandra Dock to clean...





Siemens







Zero Carbon Motion

- Climate Emergency declared Feb 2019
- Action Plan being prepared for Feb 2020
- Funding for climate change team agreed
- Key focus area:
 - Transport
 - Energy Generation
 - Building design
- Business Advisors
- Affordable Warmth Strategy
- Updated procurement processes
- 2022 update of Local Plan



Challenges EV

- 8,000 on street residential EV connections
- Location of EV energy hubs
- Who pays for EV retrofit into existing developments
- Plug and play or wi-fi
- Grid Capacity
- Rapid charge points & locations



Autumn 2019 Floods

- The rainfall totals we have seen recently are:
- Sept- 97.4mm (normal monthly average 35mm)
- Oct-141mm (normal monthly average 46mm)
- Nov up until 14th- 113mm (normal monthly average 60mm).





Hull KR Stadium SuDS – August 2013





Hull KR Stadium SuDS – March 2014





Hull KR Stadium SuDS – July 2014







Gleneagles FAS







Howdale Road FAS







Lambwath Stream FAS, Bellfield Avenue





Willerby Carr Daylighting









Work underway at Field Bridge and Sydney Smith Lagoon, AEEFAS (£22m)



Leven Carr Wetland





Even with the high levels of rain, there's still the potential for more storage.





Carr Lane Lagoon, WADFAS







Carr Lane Lagoon, WADFAS (£16m)





Carr Lane Lagoon, WADFAS





Thank You

