

Renewable UK: Regional Planning Seminar – Yorkshire and Humber

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Project Part-Financed
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Who we are

- Wholly owned subsidiary of Yorkshire Forward
- Not for profit
- We've been doing this for over 3 years
- Four key areas of intervention:
 - Resource Efficiency - CCS
 - Renewable Energy - Top 100 engagement
- Funded by Yorkshire Forward, commercial income and some other public funding

The aim...

- Reduce carbon emissions by 80% (90%?) by 2050
 - That is not far away!
 - Near total de-carbonisation of electricity
 - Large contributions from heat and transport
 - Is there a silver bullet?
 - Nuclear
 - Biomass
 - Wave/Tidal
 - Solar
 - Carbon capture and storage
 - Wind
 - Energy efficiency

Situation in Yorkshire and Humber

- No nuclear (current or next generation)
- Highly active in biomass
 - Around 2 GW in pipeline
 - RHI will make a difference
- Wave
 - Little resource here
 - Will develop elsewhere first
- Tidal
 - Some in Humber
 - Not best resource in UK

Situation in Yorkshire and Humber

- Solar
 - Now viable with FIT
 - Demand matching problem
 - Potential 4% of electricity demand?
- Carbon capture and storage
 - Huge potential: large emitters + storage sites
 - Project developing
- Wind
 - Large potential in “short” term
- Never forget energy efficiency

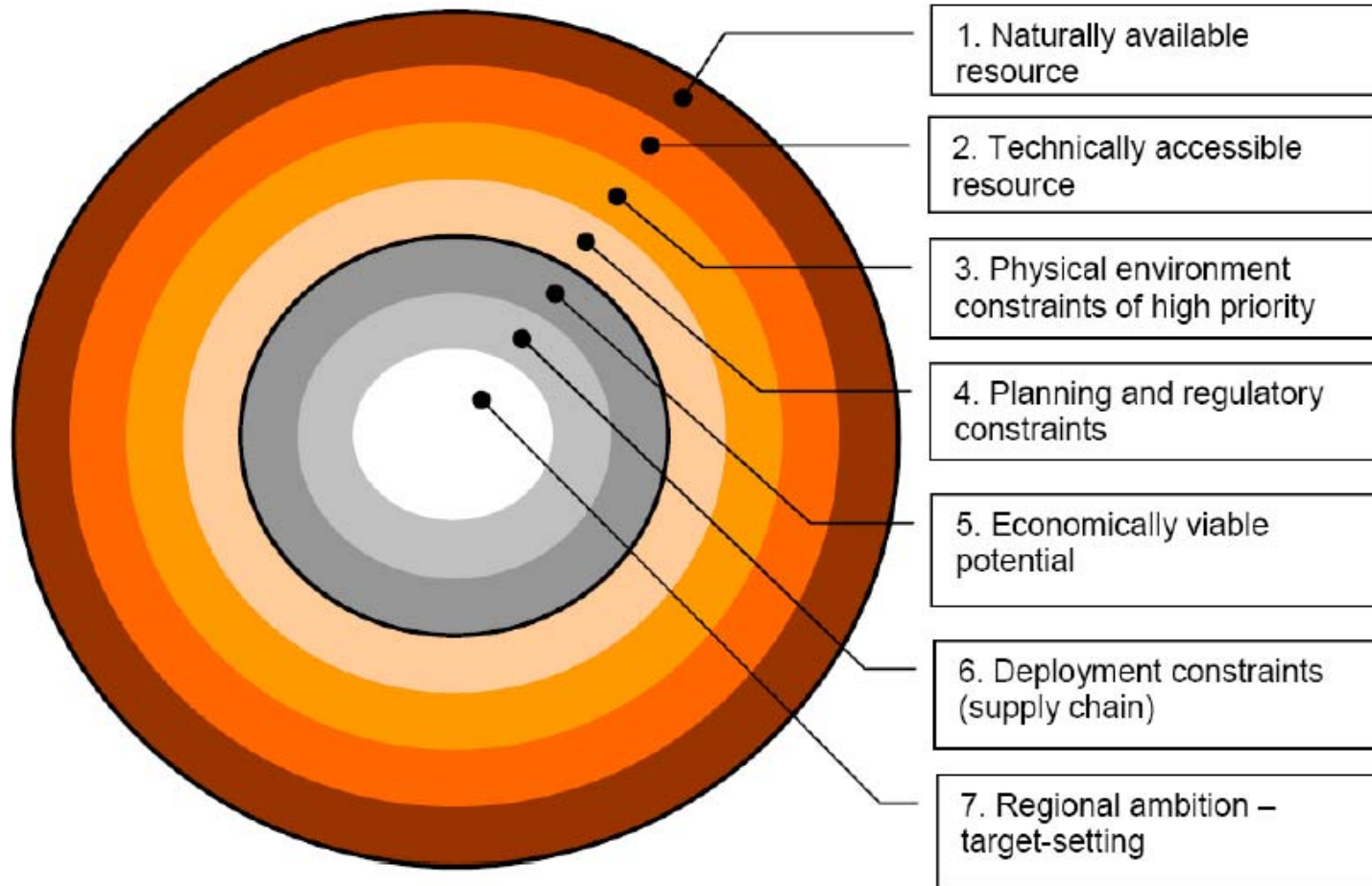
Low carbon energy capacity study

- Commissioned by Local Government Y&H
- Carried out by AECOM
- Intended to provide evidence base for Integrated Regional Strategy
- Helps LAs identify strategic energy development sites
- Follows standardised DECC methodology
- First part draft complete
- **Doesn't include offshore wind**

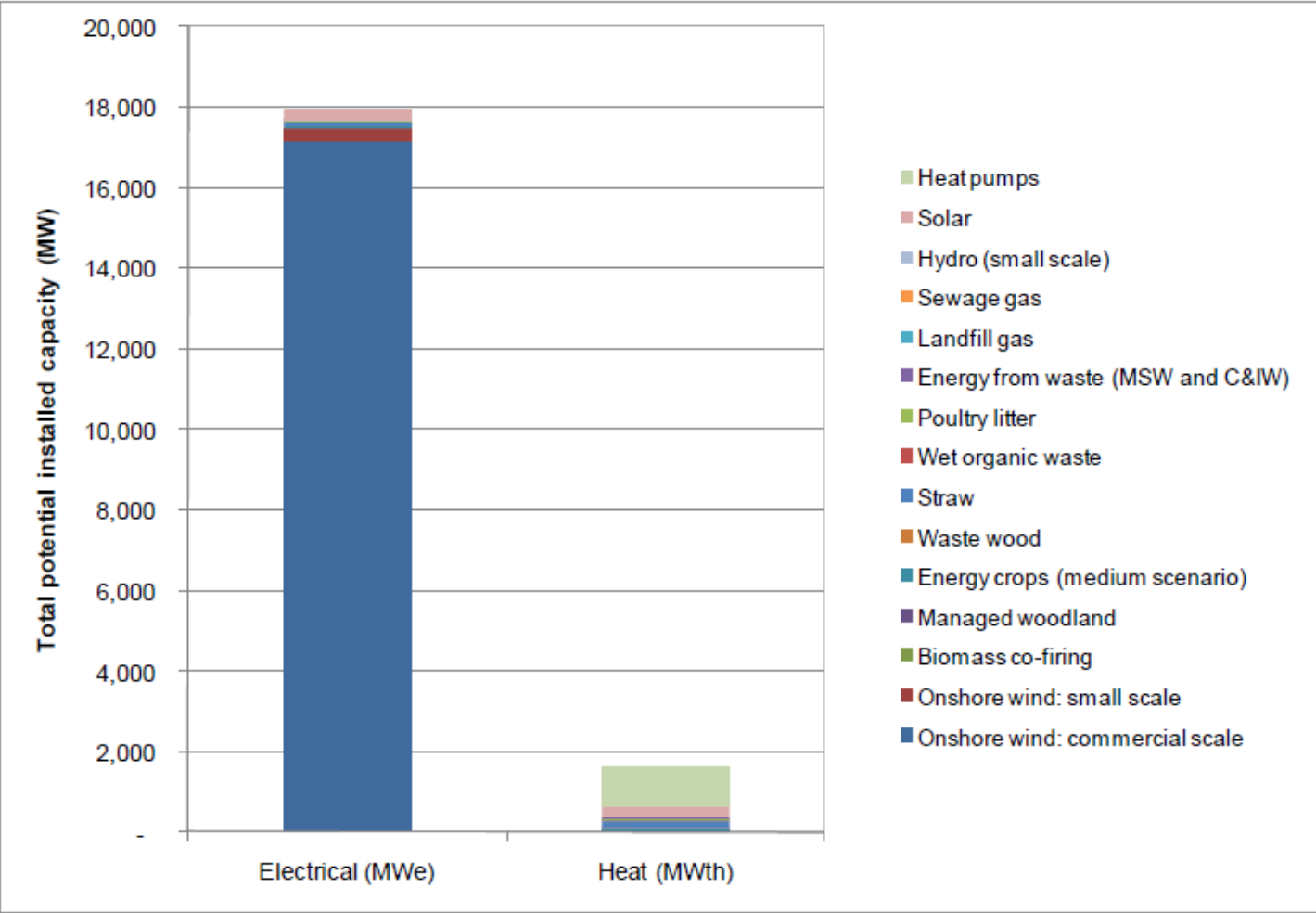
Study methodology

- “Physically available and practically viable” resource. Takes into account:
 - The extent of the naturally occurring resource
 - The ability of the available technologies to harness this
 - High priority physical constraints
 - Some planning and regulatory constraints
- Assessment **has not** yet accounted for:
 - Commercial viability of large scale schemes
 - Deployment constraints, affecting rate of installation
 - Uptake of building integrated technologies

Study methodology



East Riding/N. Lincs. potential



Summary

- Capacity study is a useful resource
 - Is there funding/responsibility to carry it on?
- Until other technologies develop, only wind can contribute large quantities of renewable electricity