

# Shared Energy Opportunities

NEPIC Meet the Members 2016

22<sup>nd</sup> June 2016

Nick Booth Ltd.

# Agenda – am I going to say anything interesting ?

- How you can save money
- Reduce your Carbon Footprint
- Working together – helping other companies
- Working together – helping the local community

# NB background

1989 ICI

Graduate C/E Engineer

Wilton Power  
Station Manager

1999 Enron

Business Devt Manager

2003 Sembcorp

Vice President  
-Teesside Utilities Business

Senior Vice President  
- Group BD

2013 Independent  
Consultant



P&L accountability for UK's largest private wire & industrial heat networks



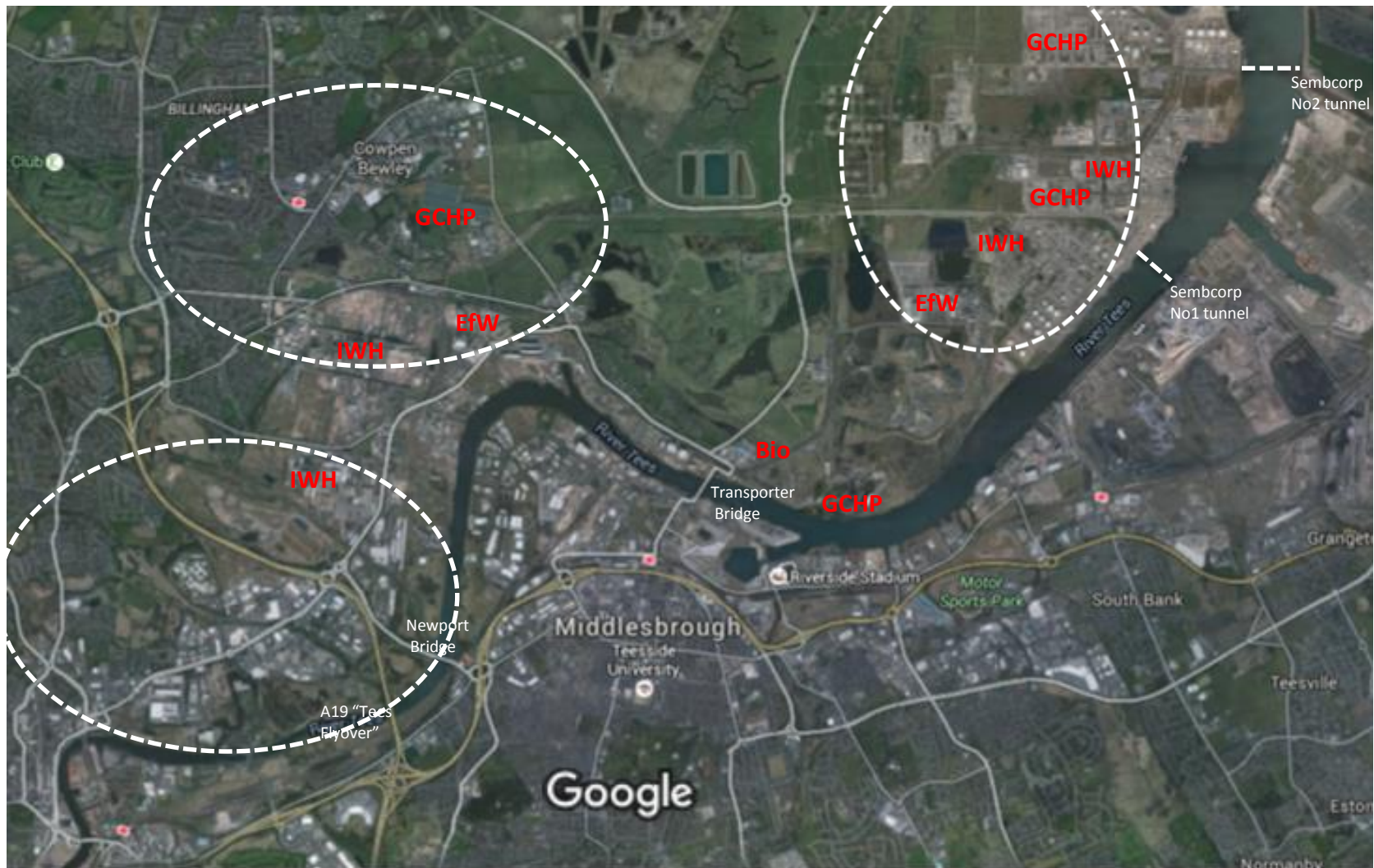
Developed over 200MW / £500M of power plant inc renewables & EfW

# Project overview

- Two district energy studies underway
  - “North Tees” @ £1.27M budget managed by Stockton Borough Council / N Booth Ltd
  - “South Tees” @ £0.52M managed by TVU / Energis (John Bone) on behalf of R&CBC / MBC
- Overseen by DECC Heat Network Delivery Unit (part of DECC “Heat” Strategy)
- Large CO2 reduction potential given concentration of EII on Teesside
- £20M+ p.a. GVA identified with relatively short leadtime
  - In addition to the CO2 and individual economic benefits the sponsors want to promote synergy between the companies and other stakeholders in the region (i.e. its also about jobs).
- In the longer term the initiative may provide heat to social housing & help address fuel poverty.

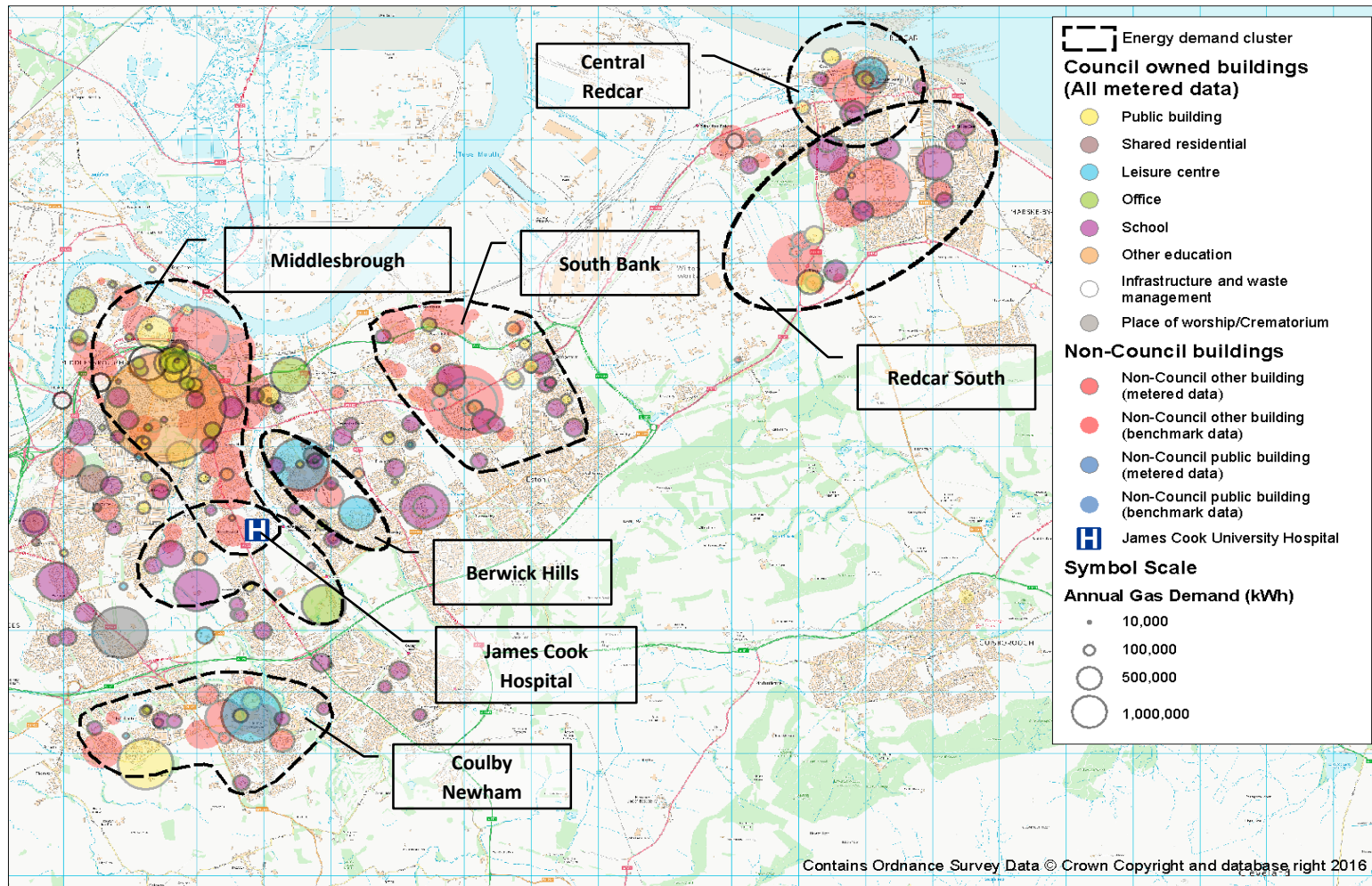
# North Tees Study Area

(enough waste heat available to heat every property on Teesside)

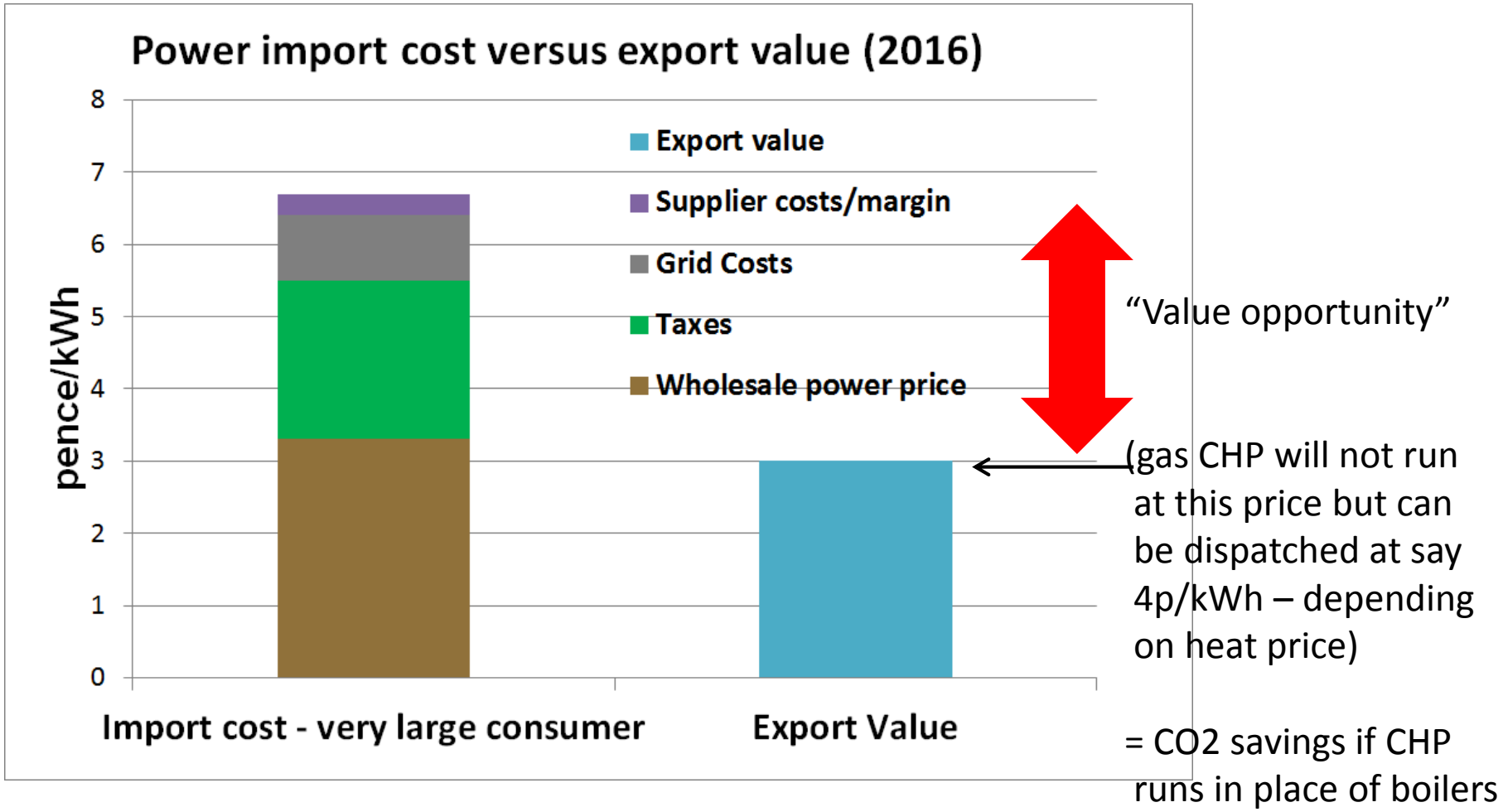




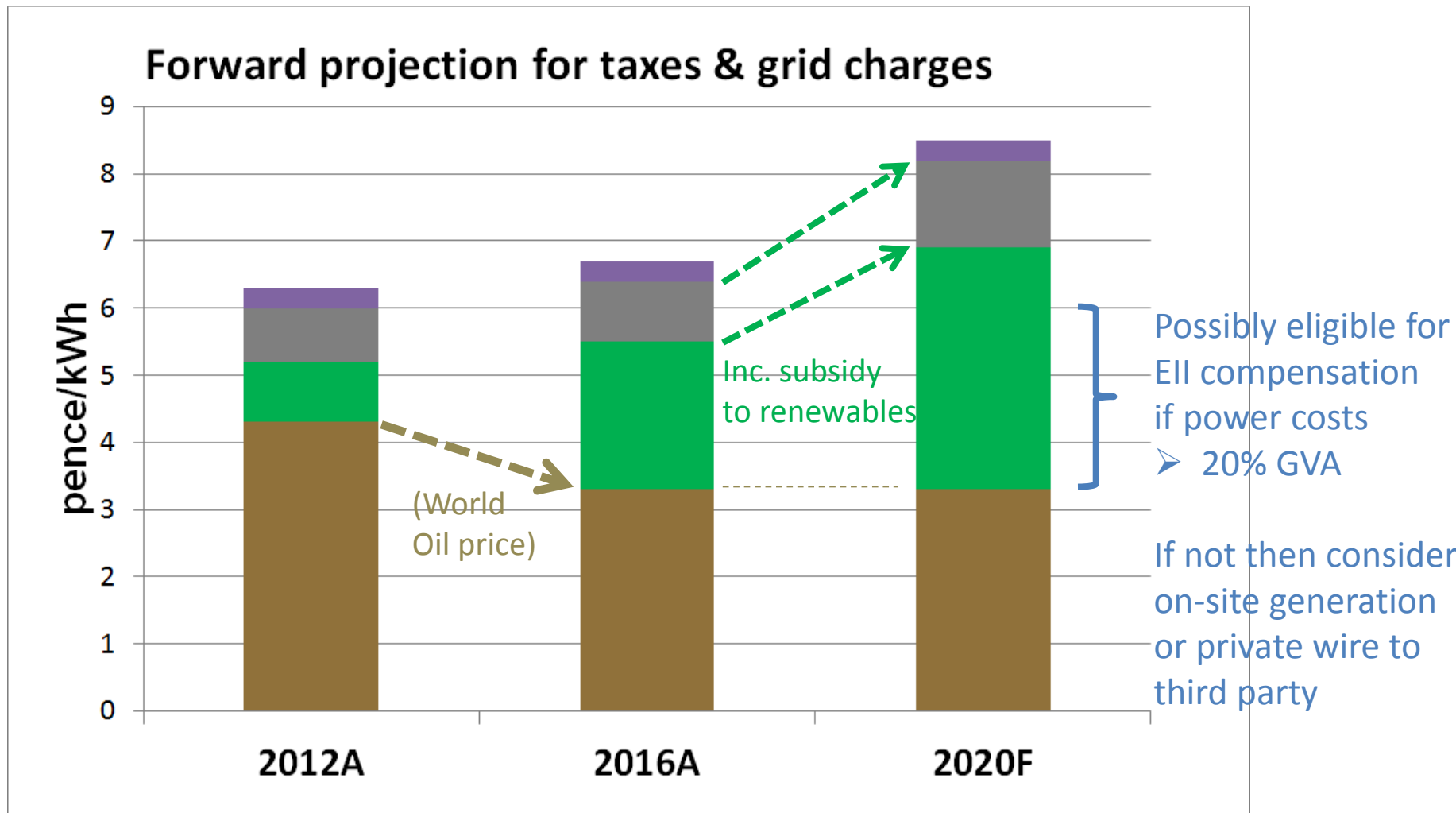
# South Tees Study Area



Significant value opportunity for local generators & consumers to work together



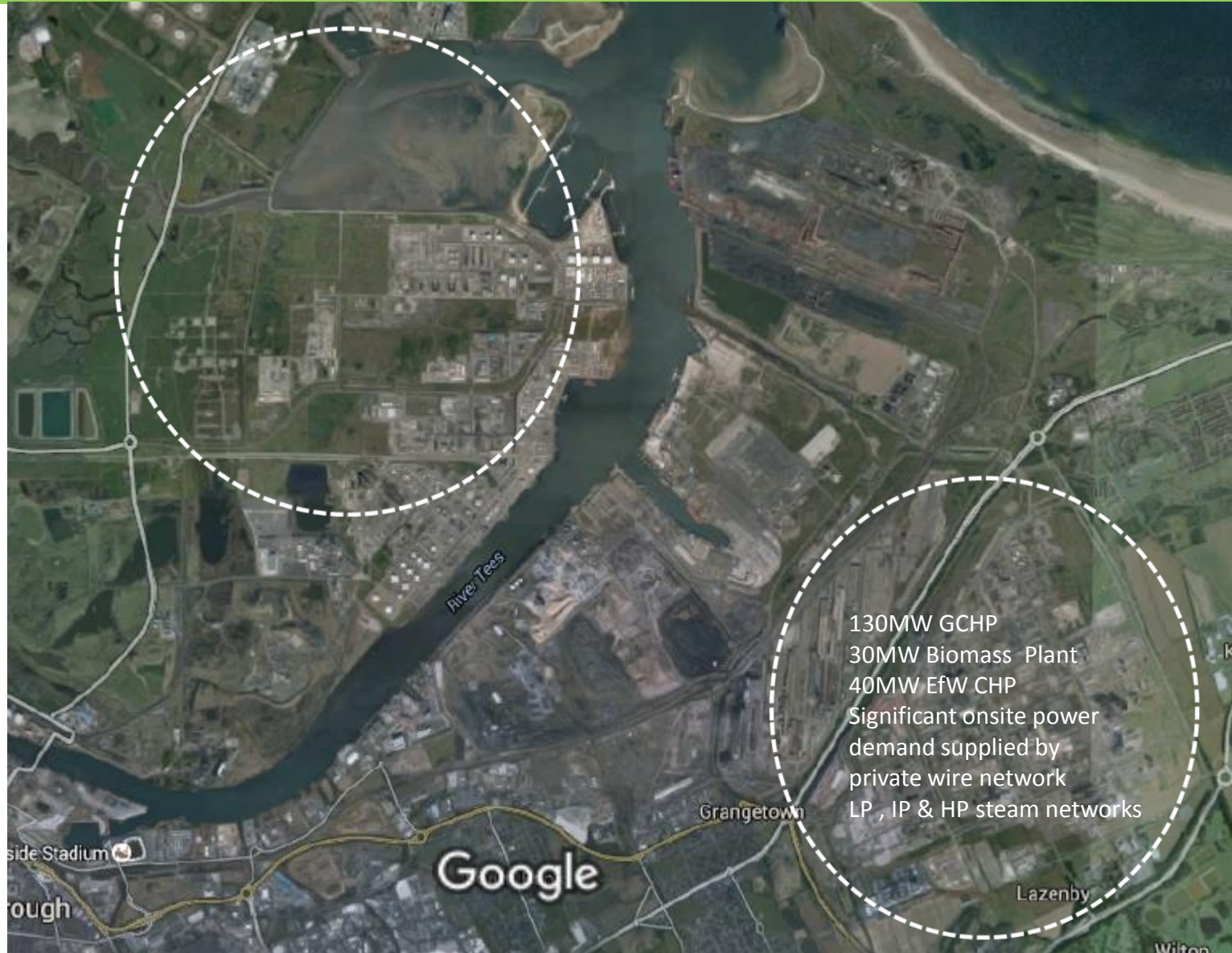
# Opportunity is going to increase





# Wilton as a case study

Seal Sands energy integration concept is not new but this time we need to make it happen !!!!!



# Joining the dots – where could we end up ? ....

- 100 → 200,000 tpa reduction in CO2 emission at low cost to government
- £50-80M of network investment over next 5-10 years
  - 70%+ of that could be spent in local economy in form of wages
- £15- £25M pa. of economic value created for local companies
  - 1000's of local jobs supported amongst some of biggest companies
  - Business rates from existing companies protected
- Infrastructure to attract future investment & promote further regeneration
- 10-15% reduction in heat costs for municipal buildings now + protection from future rises
- Mechanism to address fuel poverty through lower cost heat (marginal cost very low)

# Contacts

North & South Tees project teams interested to talk to all large energy users or generators .....

## **Nick Booth**

**District Energy Project Manager  
Stockton-on-Tees Borough Council**

**Direct Line: 01642 – 524442**

**Mobile: 07803 706964**

**Email: [nick.booth@stockton.gov.uk](mailto:nick.booth@stockton.gov.uk)**

## **John Bone**

**South Tees District Heat Project Manager  
Tees Valley Combined Authority**

**[john.bone@energiconsulting.com](mailto:john.bone@energiconsulting.com)**

**Mobile: 07960 875731**