District Heating in Small Communities –

Levenmouth (Fife) Case Study

Ken Brady

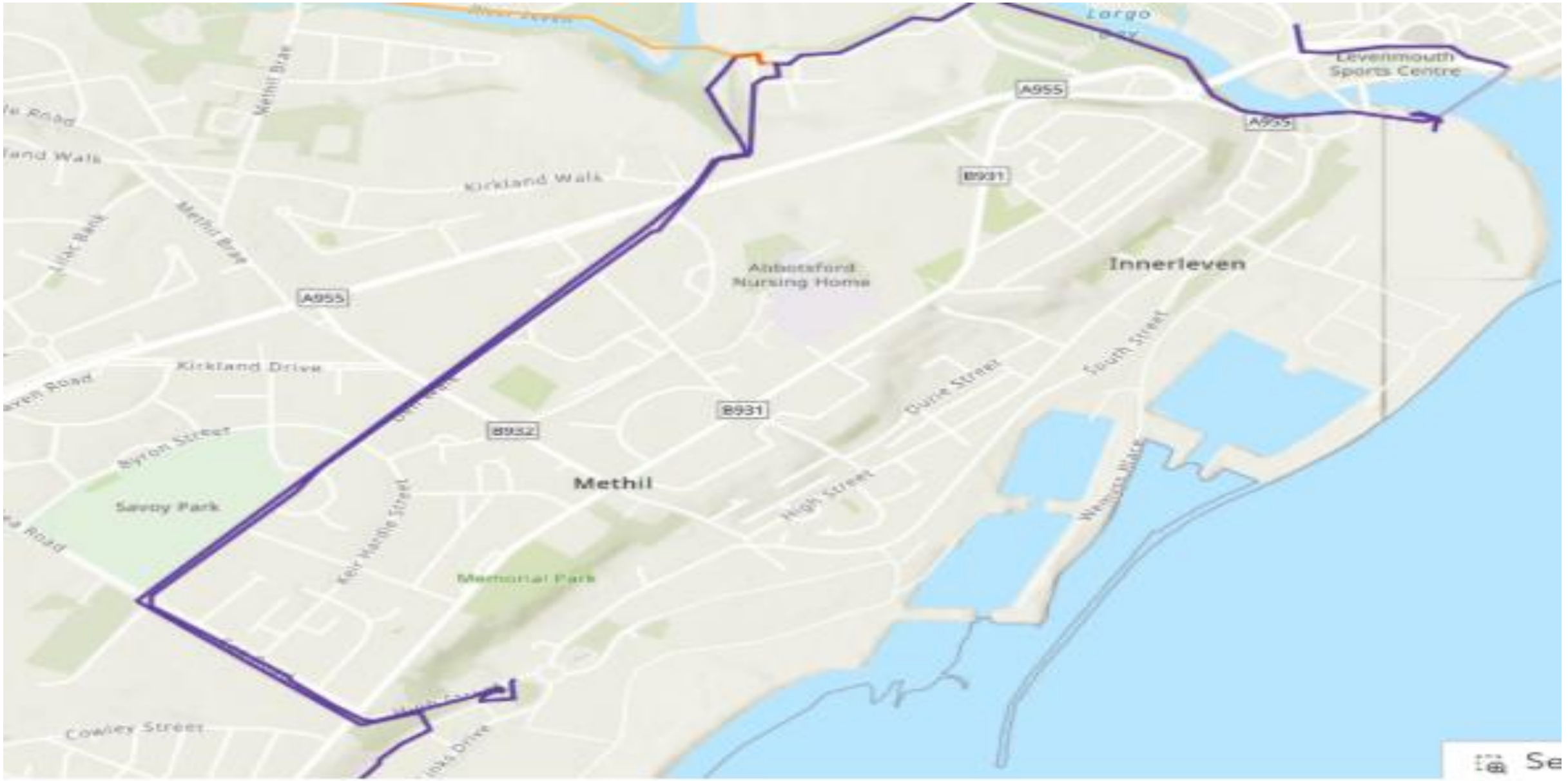
Danish Energy Agency



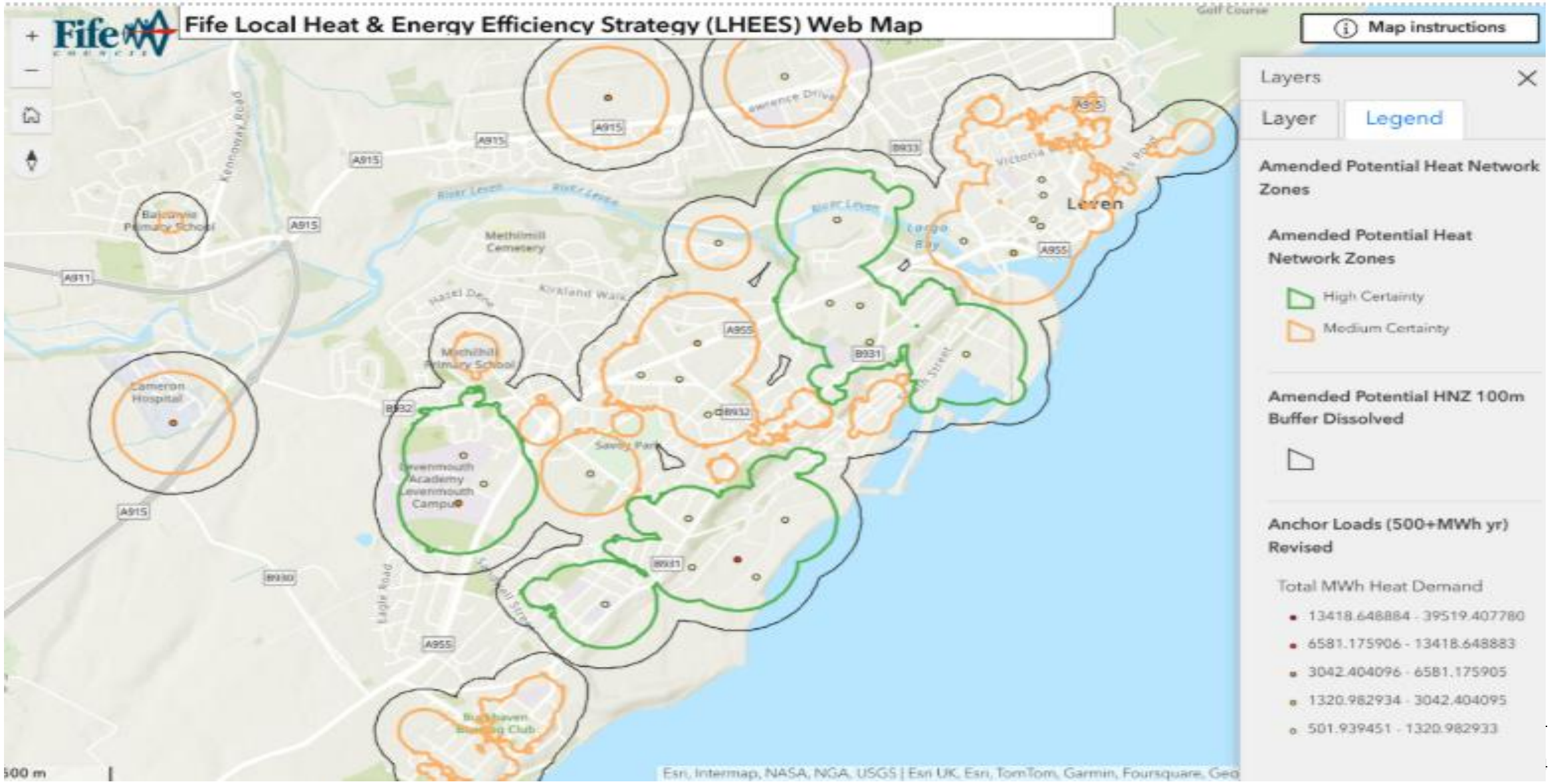
Levenmouth study area (Leven/Methil/Buckhaven)



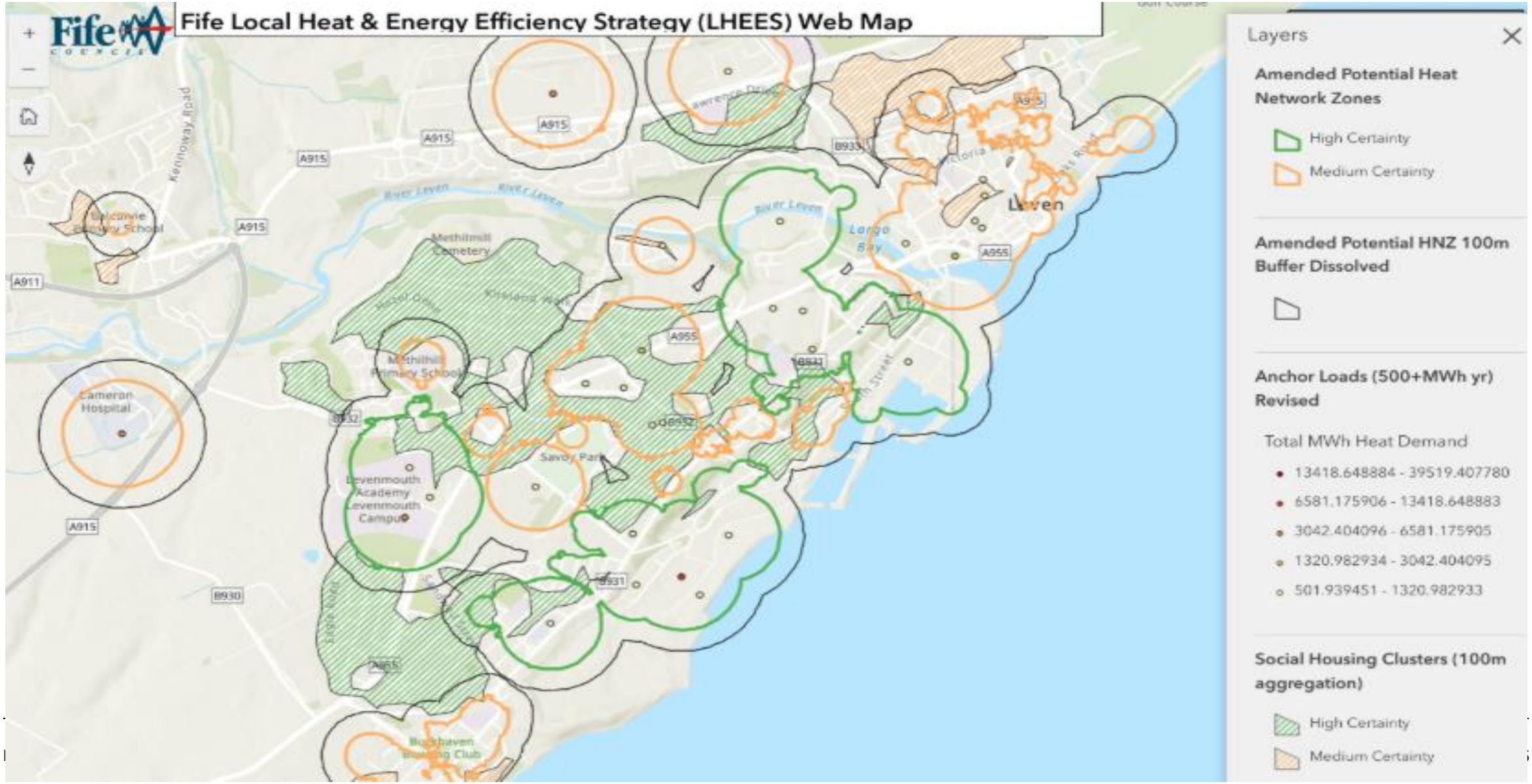
Additional heat source - sewage mains pipe



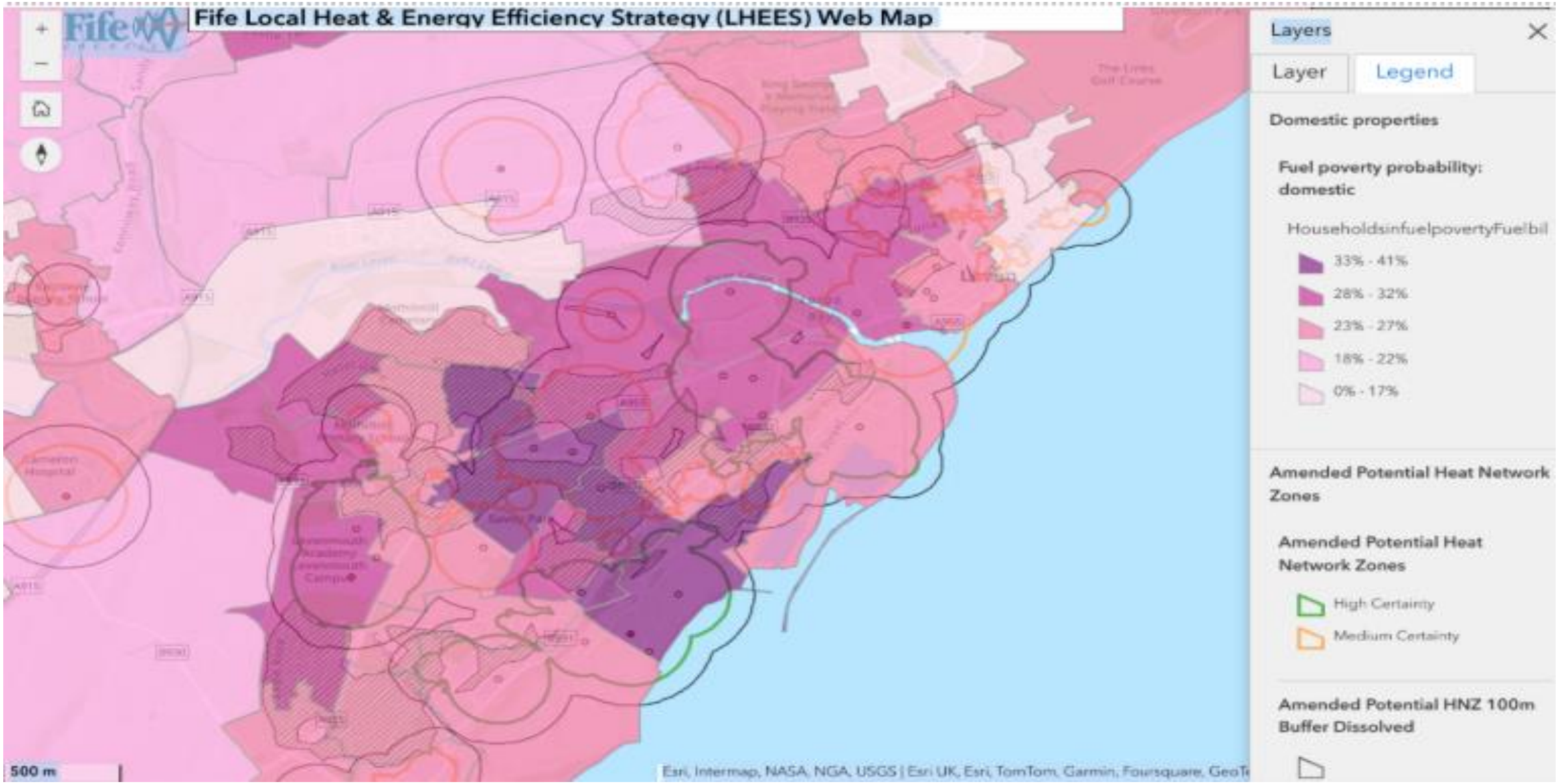
Revised heat network zones



Revised heat network zones – social housing



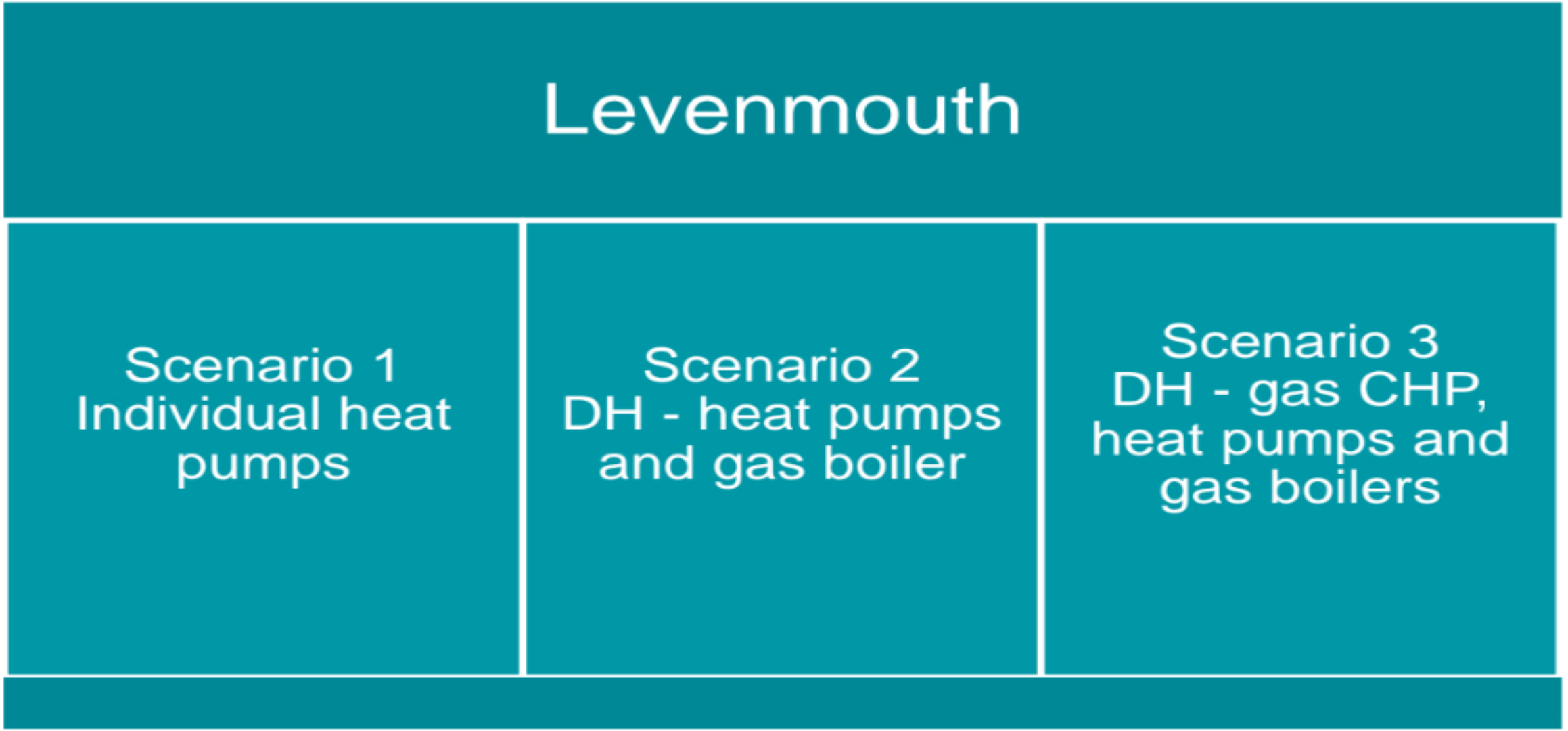
Revised heat network zones – fuel poverty



Scenario mapping – the Danish approach

- What is scenario mapping?
  - It is to investigate the different scenarios that could be relevant in a given area.
- Why do scenario mapping?
  - To create an overview of the different possibilities
- What is scenario mapping based on?
  - The scenarios that has been mapped is based upon the local situation – what is relevant in the local context. It will be based upon existing technologies and the lifetime and cost of these.
  - It is further affected by policy goals, technological possibilities, provision of affordable heat, and more.

Modelled scenarios for Levenmouth



Modelled scenarios – scenario 3 (best cost option)

