

Securing feedstock for biomethane production in Norfolk

European Workshop on Biomethane

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James Thorpe, Norfolk County Council

Outline

Overview of feedstock and how this impacts on AD

- Background to Norfolk
- NCC's role in the project
- What work has been undertaken on feedstock
- Our plans for an AD facility
- Key outcomes of the project
- Future work

Norfolk

- A largely rural county in the East of England with a population of around 850,000
- Main economic sectors are agriculture, tourism and energy
- Made up of 7 district authorities and 1 strategic authority
- 3 main population centres- Norwich, Great Yarmouth and Kings Lynn



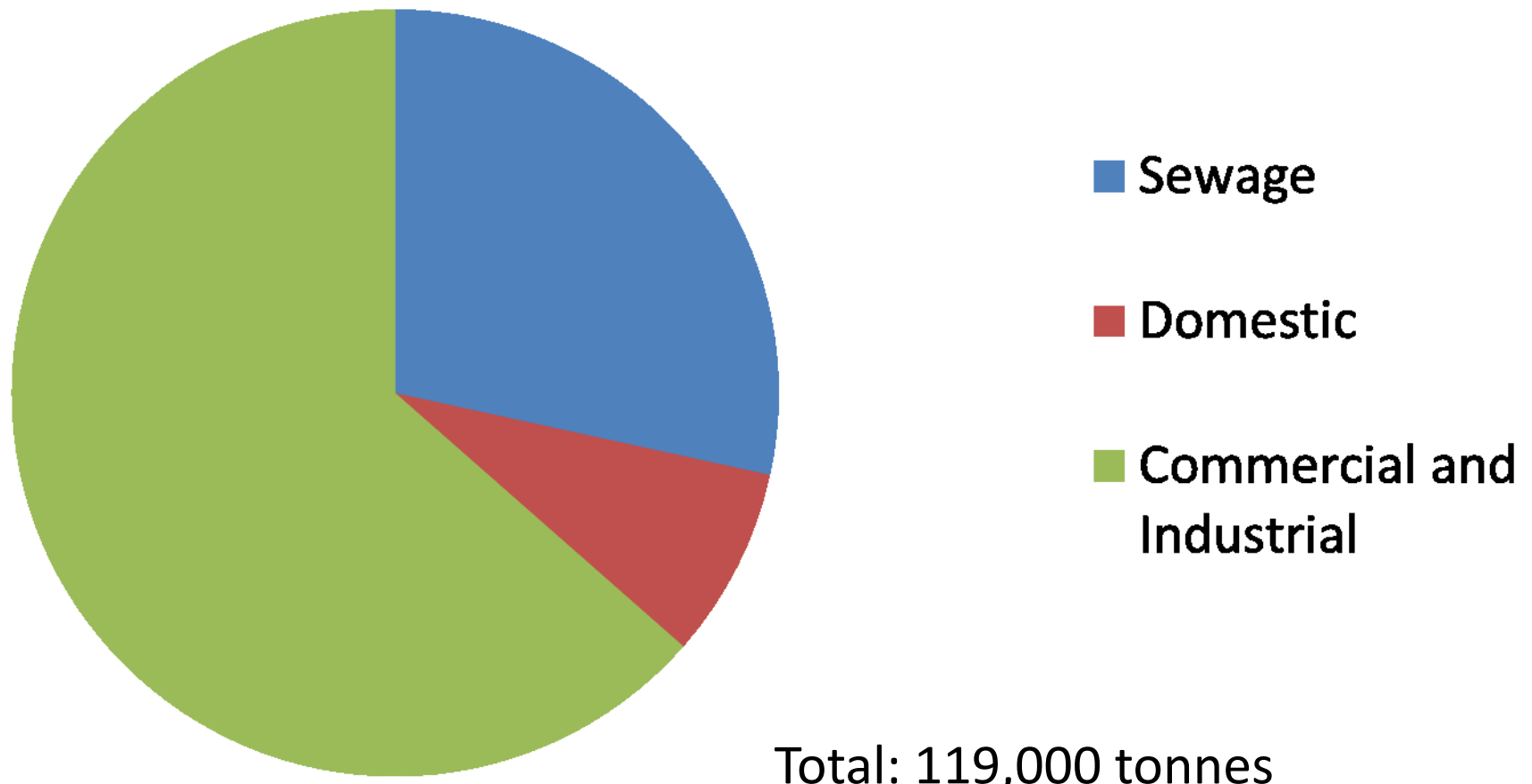
Norfolk County Council

- Regional local authority responsible for everything from Schools to the Fire Service to waste disposal
- Site leader for the UK as well as lead on biogas production and upgrading work across European partners
- Other partners included National Grid Gas and Norse
- Focus on feedstock

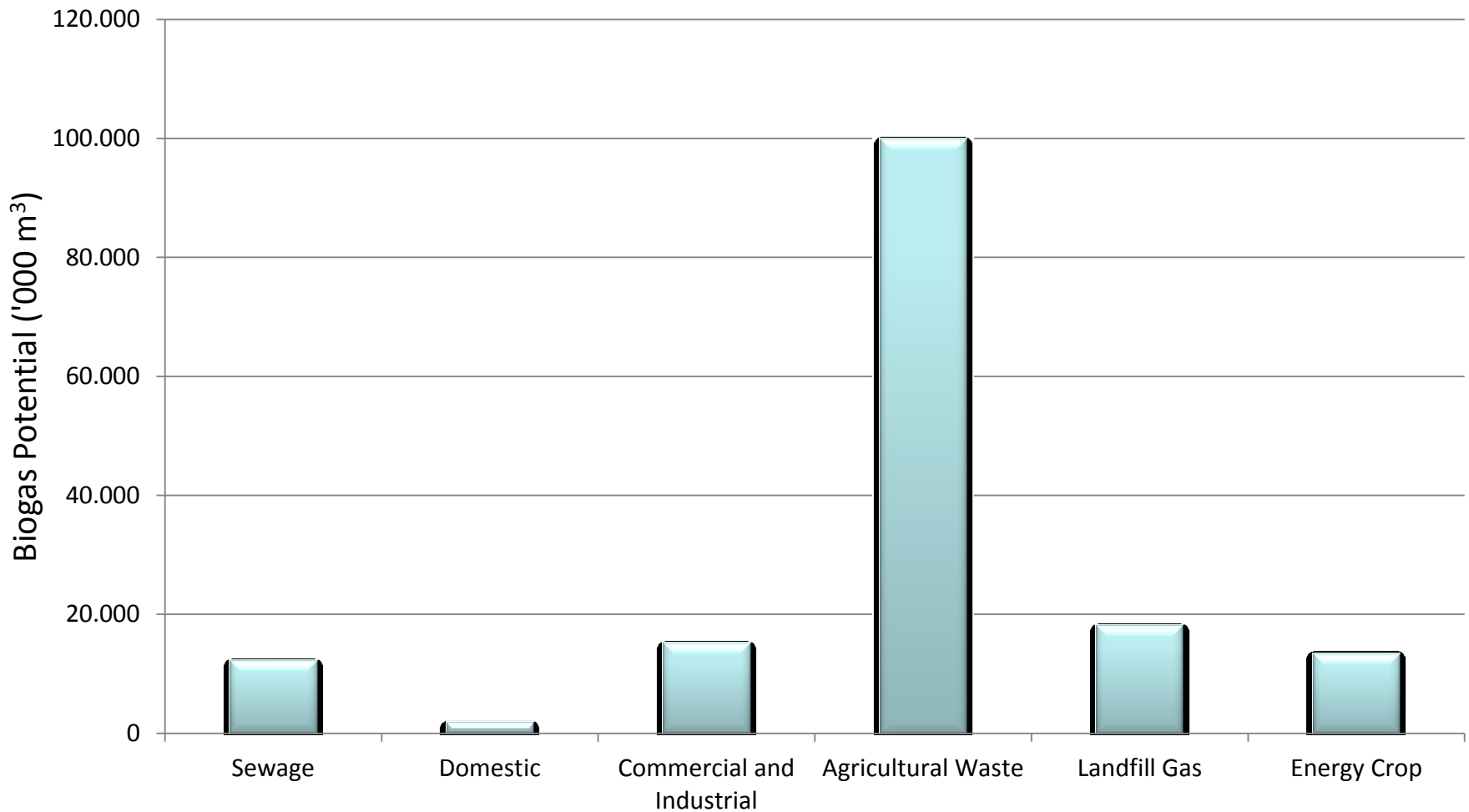
Feedstock Analysis

- Undertaken a detailed report on available feedstock in Norfolk
- Looked at domestic, commercial, agricultural, sewage
- Went on to commission detailed commercial study which included questionnaires and follow up phone calls

Norfolk feedstock potential in tonnage



Biogas Potential of Feedstock in Norfolk



Challenges in Securing Feedstock

- We don't collect waste – only responsible for disposal
- Political considerations
- Many small businesses geographically spread
- Competition

Our Plans for an AD facility

- Norfolk Energy Futures (NEF) set up by council to deliver renewable energy projects
- Support from council to use NEF to build a facility either alone or in partnership.
- Keen to use some of the councils assets; county farms, planning expertise and waste information
- Feedstock could be a variety of sources

Key Outcomes of the project

- Added value from building a successful network
- Learning from other regions of Europe has been vital
- Great potential for AD in Norfolk with its large agricultural and tourism sectors

Innovative feedstocks for Norfolk

- Large coastline means a large marine resource
- Started work with the Centre for Environment, Fisheries and Aquaculture Science to investigate opportunities
- Macroalgae recognised in UK Algal Roadmap as a potential feedstock for AD
- Could have large implications for across Europe

Thank you for your attention!

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