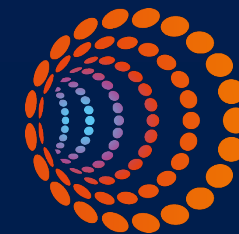


# SGN and Green Gases

UK Green Gas Day 2024

Antony Green, Future of Energy Director



**SGN**  
Your gas. Our network.

# The SGN network at a glance

SGN has been involved in the biomethane market since 2010 with ambitious plans to grow

**6 million customers**

...Over our Scotland, Southern & NI networks

**35 biomethane connections**

...Having delivered the UK's 1<sup>st</sup> G2G plant at Didcot in 2010

**317,000 homes supplied with green gas**

...Over 3.5TWh of biomethane injected and distributed

**630,000 tonnes of fossil CO2 abated**

...Avoiding fossil carbon emissions equal to 450,000 cars



# Pioneers in biomethane since 2010



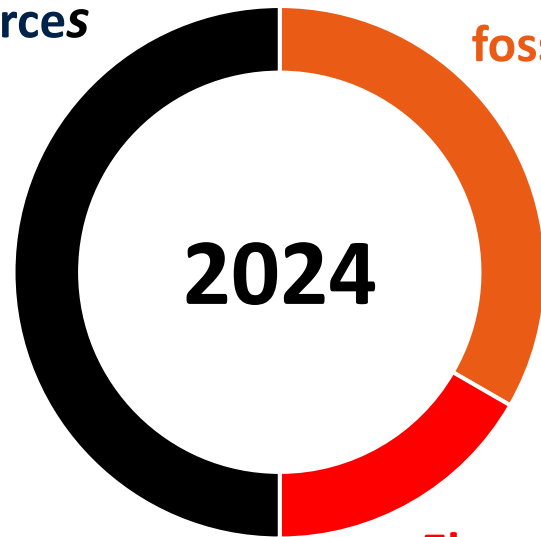
- First UK gas to grid biomethane plant injecting into SGN distribution network
- 2010 innovation project at Didcot wastewater treatment plant with Thames Water and British Gas

»»» Didcot wastewater treatment works, biomethane gas to grid plant

# The energy transition & the value of networks

Green gas can play a key role in the energy transition as part of a whole-systems approach

Oil  
Predominately  
fossil sources



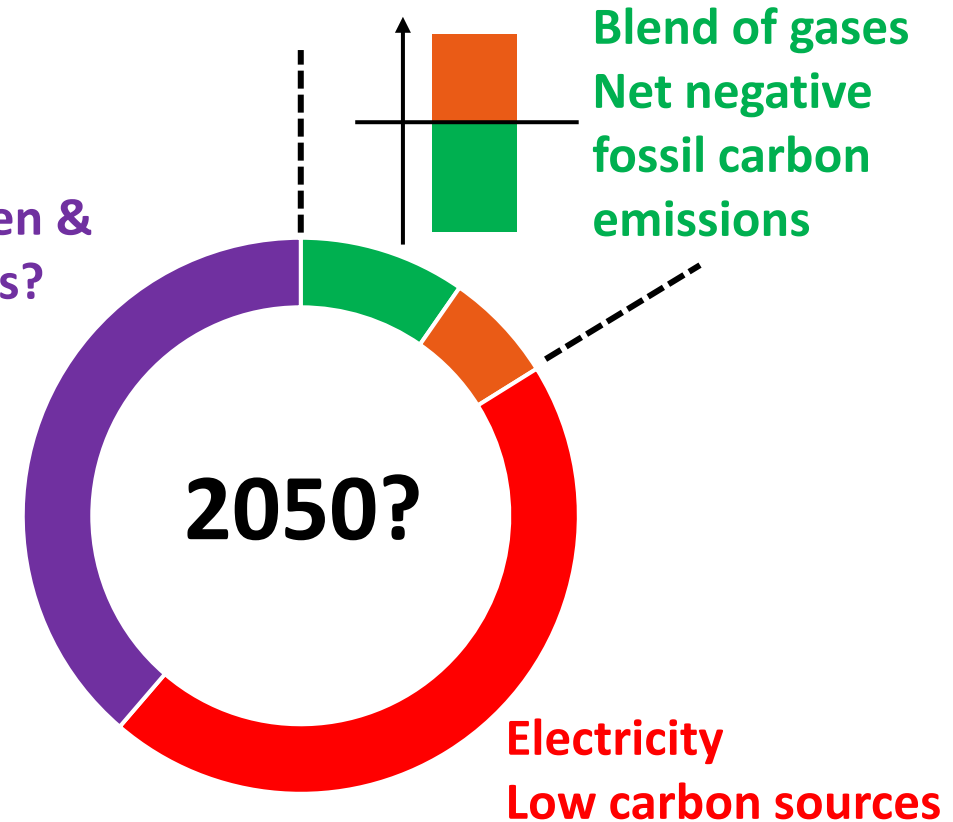
2024

Natural gas  
Predominately  
fossil sources

Electricity  
Increasing low  
carbon sources



Hydrogen &  
eFuels?

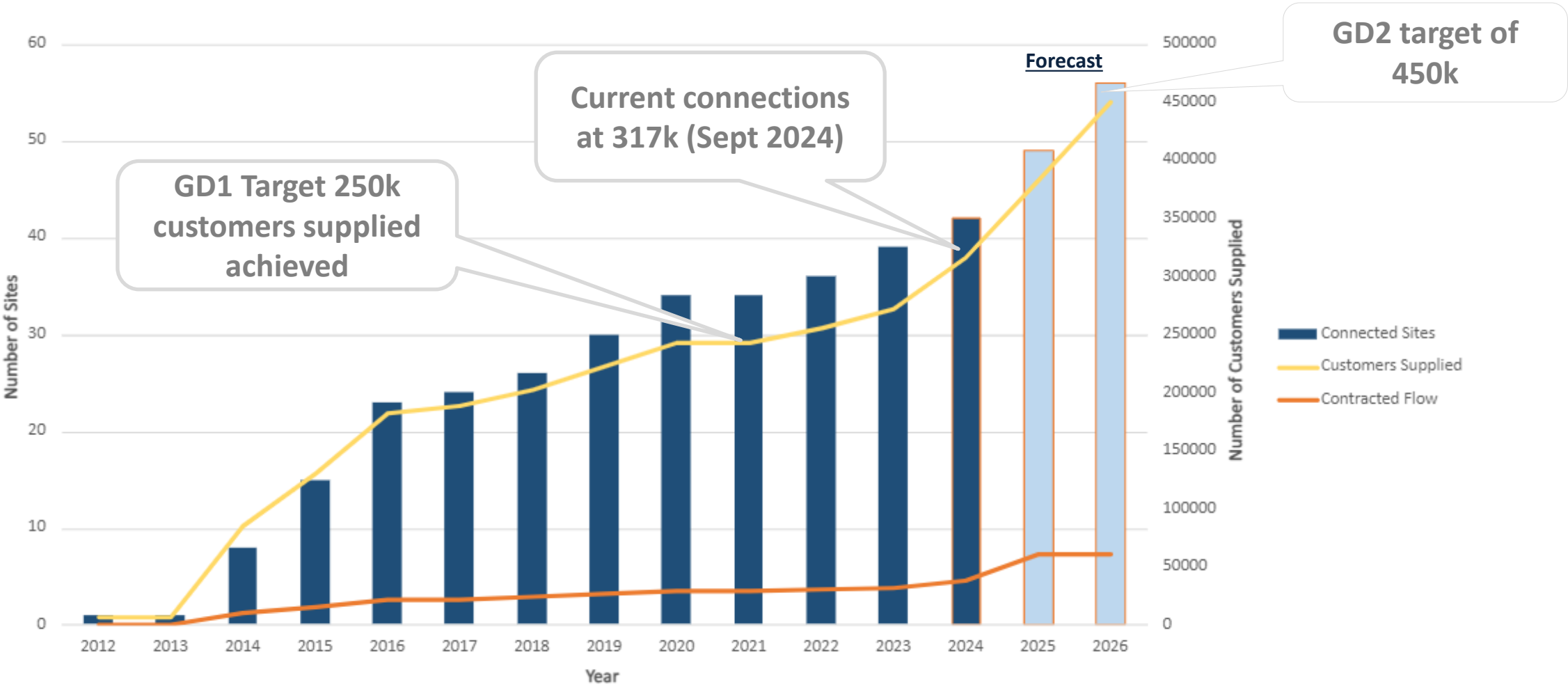


2050?

Electricity  
Low carbon sources

# Progress & lookahead on connections

GD1 target achieved and strong progress towards GD2; but more opportunity to further green the network

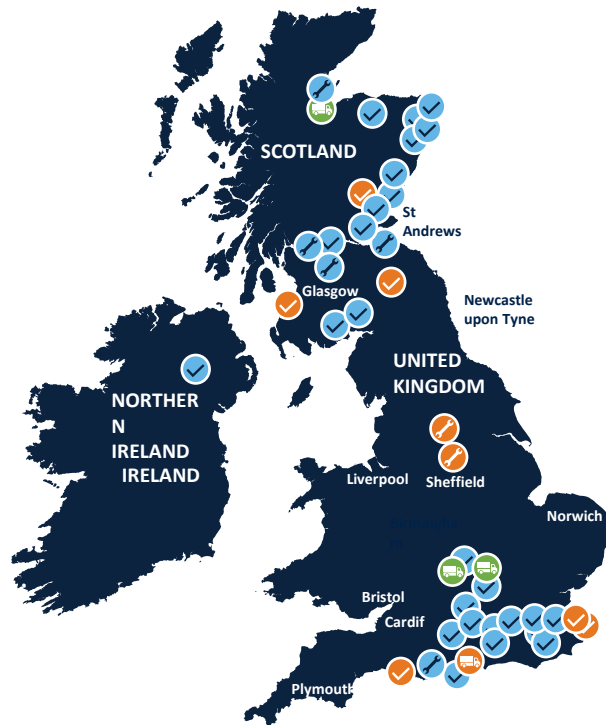




# Setting ambitious targets for the future

GD3 for gas networks provides opportunities to continue to promote and develop biomethane injection

Increasing biomethane connections

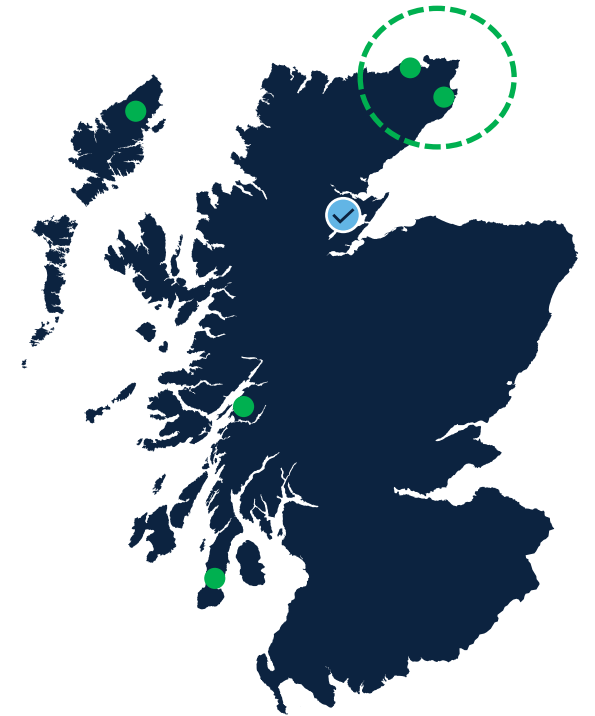


450,000 by 2026

1 million by 2031

Equivalent homes on the SGN network heated with biomethane

Scottish Independent Undertakings Sustainable biomethane solution



# Greening our network & improved network access

Focusing on a range of themes that could support increased biomethane injection on the network



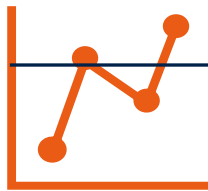
**Advocacy**



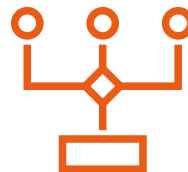
**Engagement**



**Innovation**



**Enhanced Analysis**



**Standardisation**



**Investment**

# Wastewater AD: Converting from CHP to biomethane

Plants completed at Thames Water and underway with Yorkshire Water

170

AD plants across UK wastewater sector



Feedstock is 100% waste product

100%

29

Potential GtG projects over next investment period (2025-30)



Est green gas potential across the sector

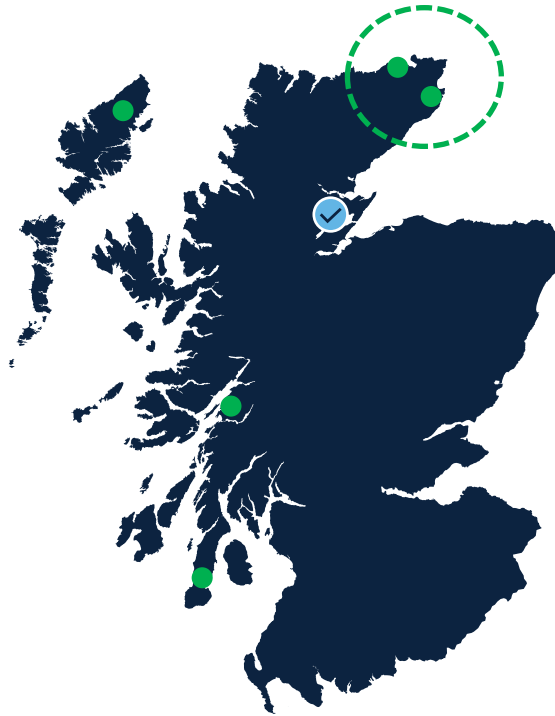
5Twh



# Strategy for securing a sustainable supply to our SIUs

## Greening our SIUs is an opportunity to showcase what can be achieved with biomethane

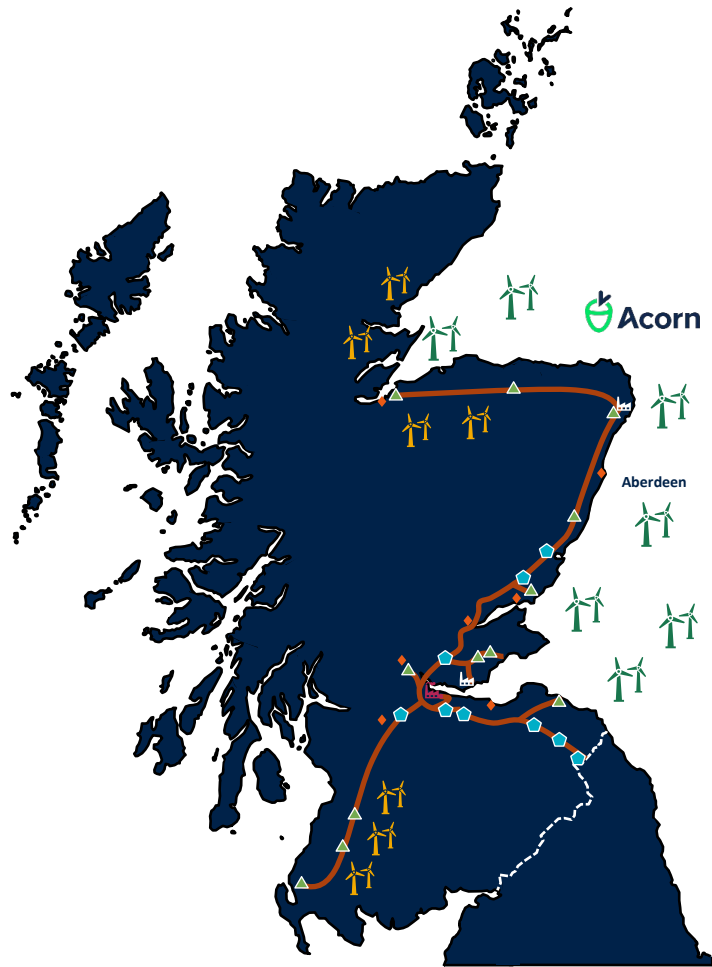
- Biomethane produced from whiskey waste at Invergordon to supply 80% demand for Wick & Thurso
- Feasibility study already completed with tender for FEED ongoing
- Plan now to deliver as (c.£15m) named project in GD3, reducing overall SIU LNG demand by 50%
- Option to consider a re-opener to replicate for Oban & Campbeltown



- ✓ A full-Scale 'biomethane islands' proof of concept
- ✓ Genuine green solution
- ✓ Increases security of supply
- ✓ Protects against price volatility
- ✓ Potential longer-term removal of LNG entirely

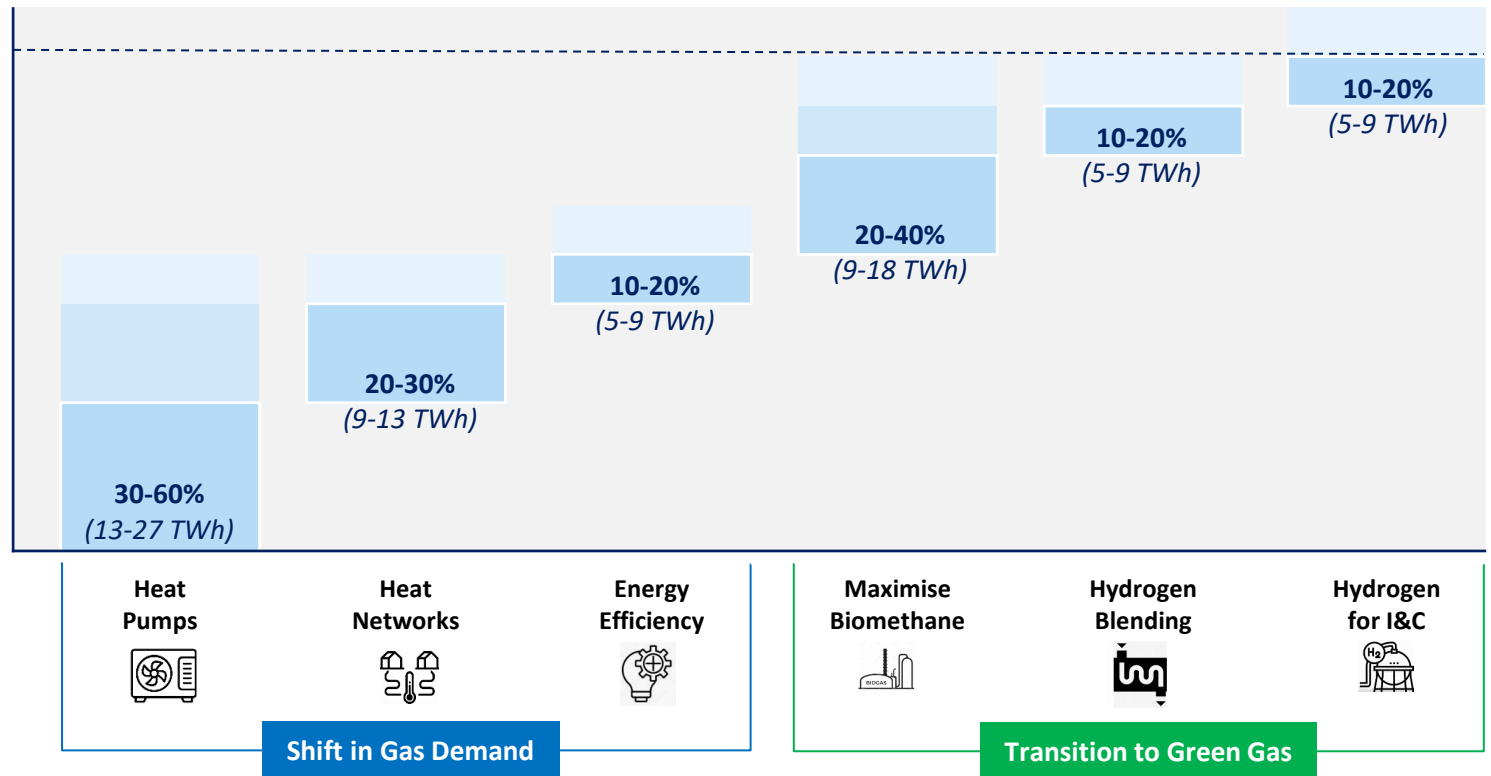
# Meeting the gas network energy demand in Scotland

Reduced gas network demand enables a transition towards green gas and achieving a Net Zero gas grid



Estimated potential to meet today's energy needs from Gas Distribution Network

45TWh



**Thank you**



**SGN**  
Your gas. Our network.