

## Renewable gas potential in the UK

Renewable gases represent a great opportunity to deliver 'green fuel' for heating and transport in the UK. Renewable gas is produced from wastes, residues or energy crops, known as feedstocks. The gas is produced close to feedstock sources, delivered to homes using the existing gas network and used by customers in exactly the same way as fossil gas. Renewable gases can also be used in lorries and buses to deliver significant emissions reductions compared to diesel.

As part of our wider effort to support a low-carbon future for the UK, Cadent commissioned an independent study to estimate how much of our energy demand can be met by renewable gas\*.

It reviews and updates estimates of bioenergy potential published in a 2011 report by the Committee on Climate Change. It considers all of the potential feedstocks, including waste and sustainable energy crops.

This study looks at renewable gas potential based on today's sustainable feedstock availability. It also explores the likely changes in availability over time. The full report can be found at [www.cadentgas.com/rgp](http://www.cadentgas.com/rgp).

\*Renewable gases take the form of biomethane from anaerobic digestion (AD) and Bio-Substitute Natural Gas (BioSNG).



# Renewable gas on the network today

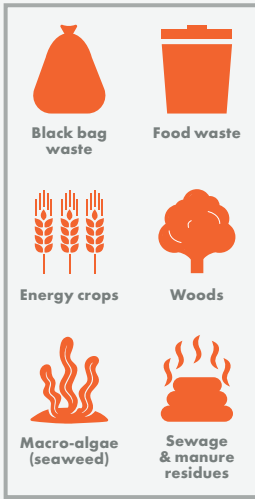


More than 80 anaerobic digestion plants are already connected to the UK gas distribution network.

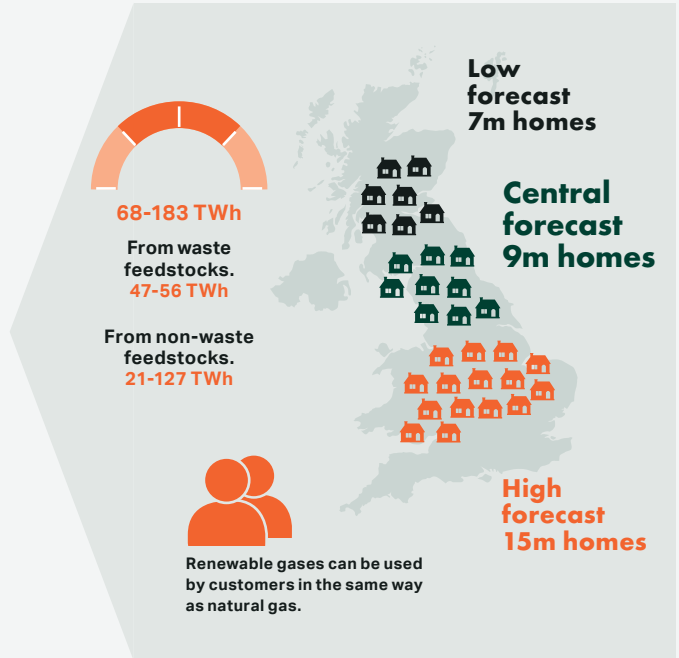


In 2017, for the first time, 250,000m<sup>3</sup> of renewable gas was produced and delivered through Cadent's network, enough to heat all the homes in Liverpool.

## Potential to 2050



Converted to BioSNG\*



## A significant future contribution

There are sufficient feedstocks available now for renewable gases to make a significant contribution to the UK's carbon reduction targets and clean air ambitions.

With the right government policies and support, renewable gases could eventually supply more than 100TWh of energy – enough to heat one third of the UK's homes or fuel all of the heavy goods vehicles.

\*You can find out more about how BioSNG technology produces renewable gas from black bag waste at [www.gogreengas.com](http://www.gogreengas.com).