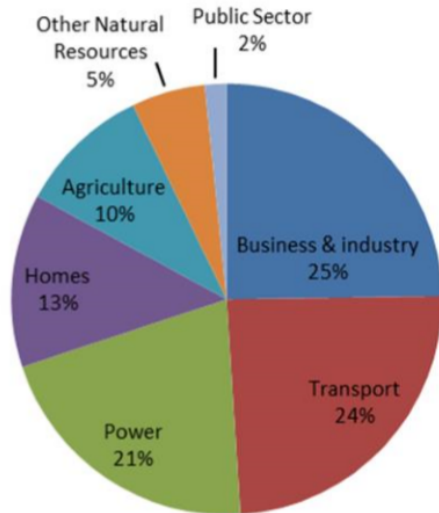


Uses of UK Energy

FIGURE 4: UK GHG EMISSIONS BY SECTOR IN 2015



North London people can help

	MtCO ₂ e	%
Business & industry	123	25
Transport	120	24
Power	104	21
Homes	64	13
Agriculture	49	10
Other natural resources	27	5
Public sector	8	2

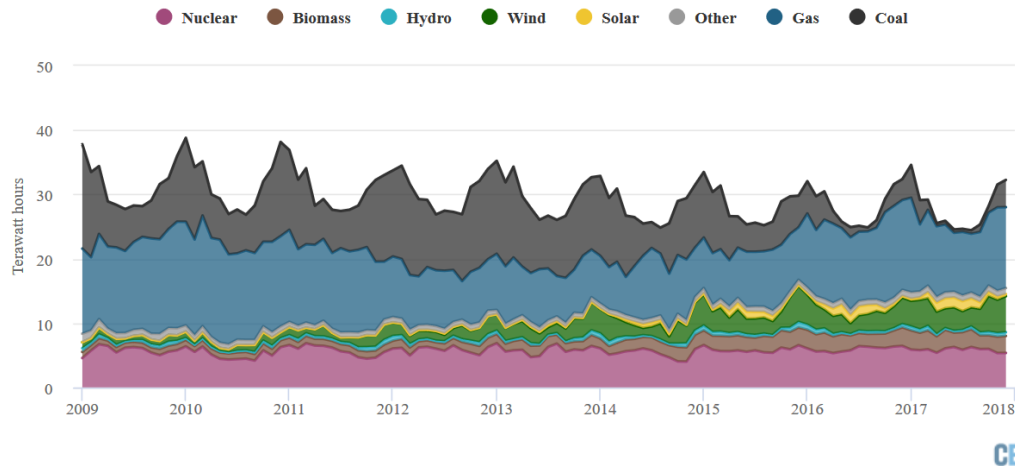
Source: BEIS (2017), Final UK greenhouse gas emissions national statistics, 1990–2015, <https://www.gov.uk/government/statistics/final-uk-greenhouse-gas-emissions-national-statistics-1990-2015>.

Note: 'Other natural resources' covers land use, forestry, waste and fluorinated gases.

Sources of UK Energy

more than 50% of UK energy in 2017 from low carbon

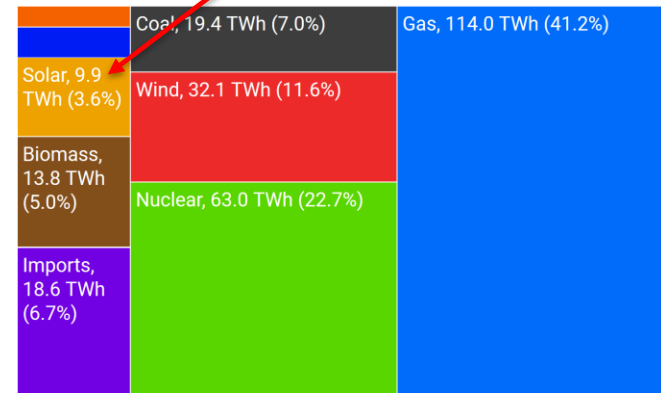
Monthly UK electricity generation 2009-2017



Monthly electricity generation in the UK, by source (terawatt hours). Source: Carbon Brief analysis of data from [Electric Insights](#) and the Department for Business Energy and Industrial Strategy (BEIS). Chart by Carbon Brief using [Highcharts](#).

Solar PV

GB electricity generation over 12 months from the beginning of January 2017 to the end of December 2017



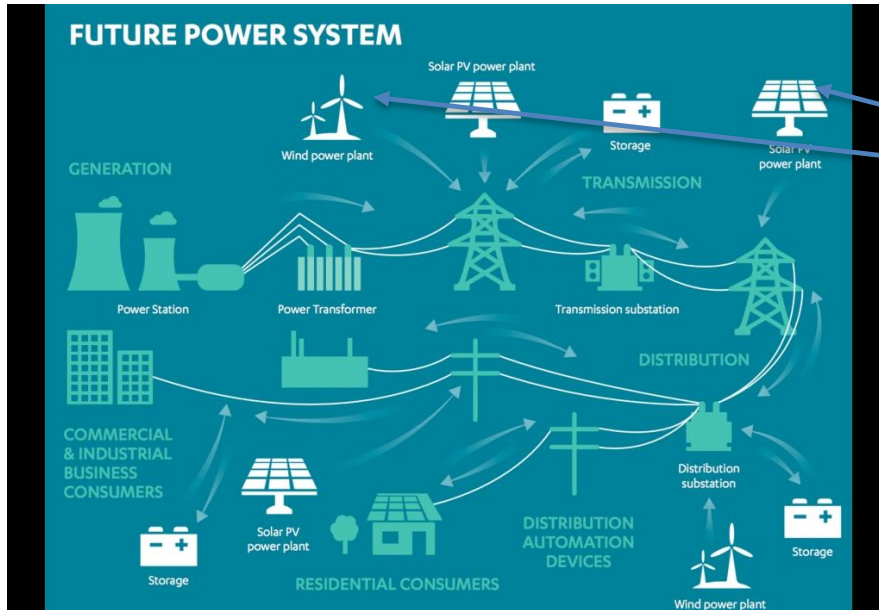
Source: MyGridGB, BM Reports

<http://www.mygridgb.co.uk/>

between them, nuclear and renewables generated more electricity in 2017 than all fossil fuels combined (inc nuclear)

<https://www.carbonbrief.org/uk-low-carbon-generated-more-than-fossil-fuels-in-2017>

Transformation of UK energy - electricity



The **UK electricity grid** needs to be upgraded and to cater for **local generation into the grid** instead of just central power out to customers

[Greenpeace](#) (Feb 2017) is confident that only a small percentage of roof/land coverage would be needed to power every home with Solar PV to provide this “*we’d need to devote about 0.34% (or 0.3%, if rounded to one decimal place) of total UK land to match the power used by homes in a single year.*”

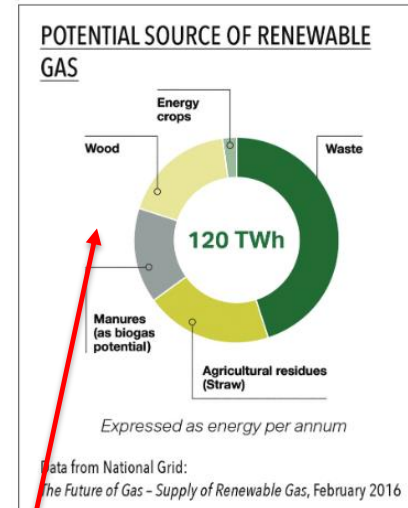
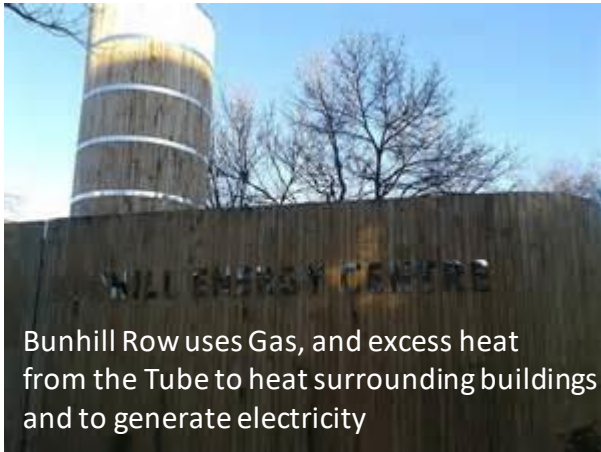
the Greenpeace video demonstrating solar coverage
<https://www.facebook.com/greenpeaceuk/videos/10153687631229229/>

The **UK electricity grid**

- It needs even more smart monitoring and levelling (currently mainly dams for quick power)
- It needs more Solar PV – personal, community, corporate, municipal
- It needs more storage, and Electric Vehicles have a big role here [Next Green Car](http://www.nextgreencar.com/electric-cars/environmental-benefits/)
<http://www.nextgreencar.com/electric-cars/environmental-benefits/>



Transformation of UK energy – gas and heat



<https://www.youtube.com/watch?v=SuBa9qYQ9VM>

UK Heating infrastructure needs to be upgraded and innovative to supply most heating and hot water.

- We need more communal heat networks, using waste wherever possible
- The Gas grid needs gas from waste, manure biofuel, syngas
- More heat needs to come from other sources eg Geothermal, Heat pumps etc
- We need more Solar Thermal for hot water on homes and other buildings

ANAEROBIC DIGESTION



During decomposition, organic wastes (food, manure, non-woody green waste etc.) emit CO₂ and methane. Methane is a greenhouse gas 20-30 times more potent than CO₂. Anaerobic digestion simultaneously captures these gases for use as a clean fuel and produces fertiliser and soil conditioner.

Community by Design is spearheading **London local waste to power schemes.**

To get involved email:

info@leapadventure.co.uk

Or phone 020 8888 6293

Or 07864 002189

<http://communitybydesign.co.uk/pages/anaerobic-digestion>

Transformation of UK energy

- use less

