



Battery storage replaced diesel engine at Dyke Golf club

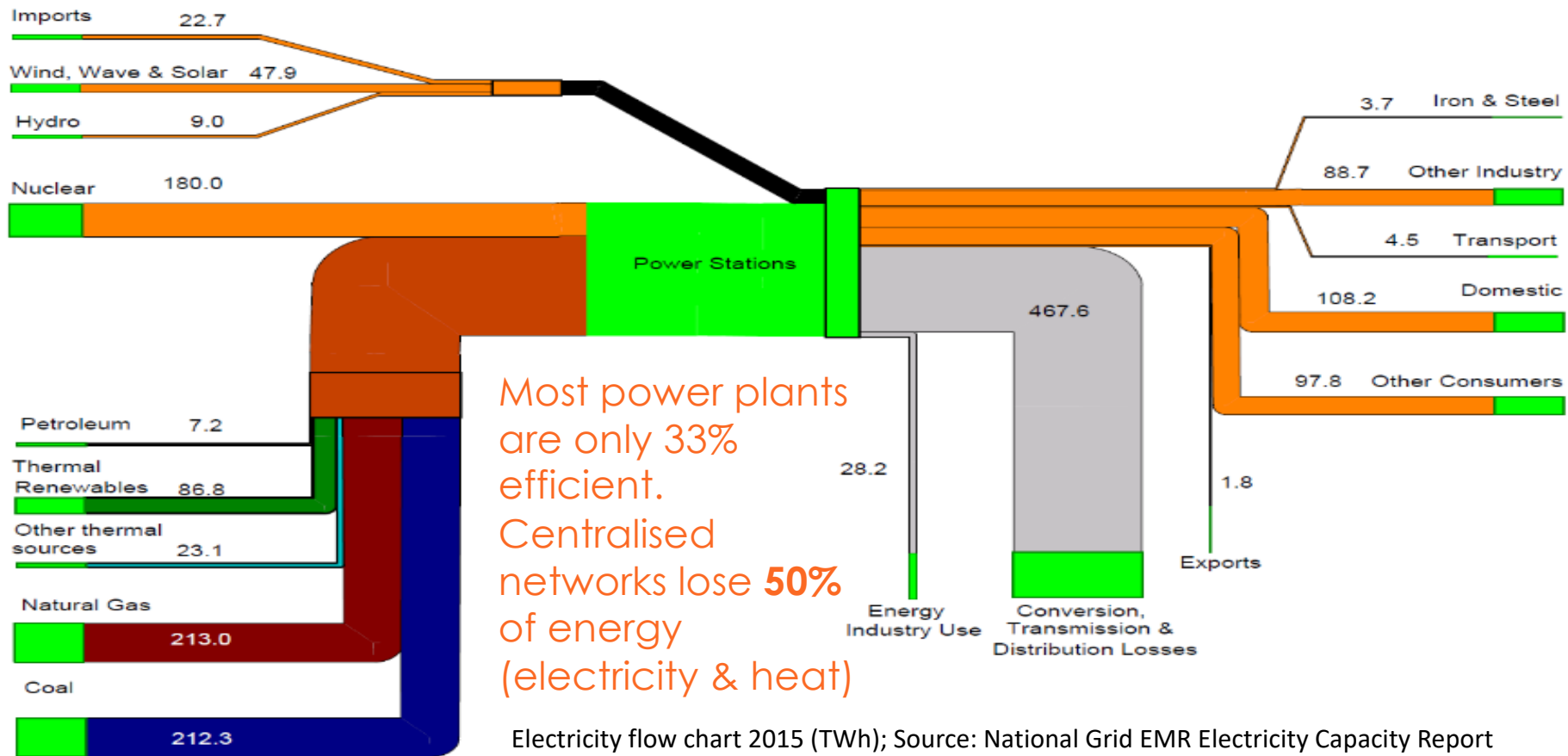
Brighton & Hove  
Energy Services Co-operative



# About BHESCo

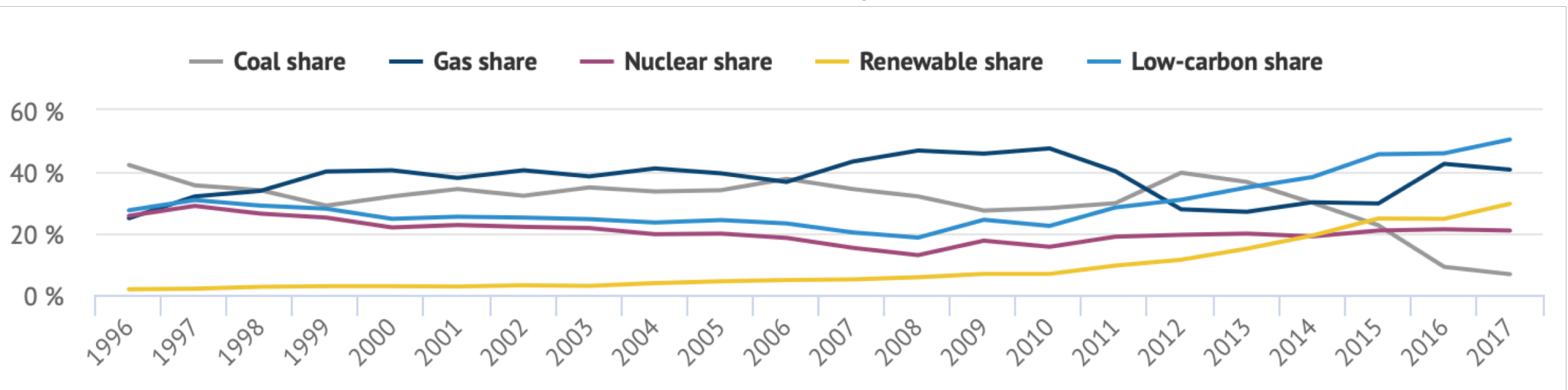
-  37 community energy projects completed
-  168 shareholder members
-  £500,000 investment raised
-  500 energy surveys conducted
-  £152,000 saved on bills annually

# Existing Inefficiency



# Sector Growth

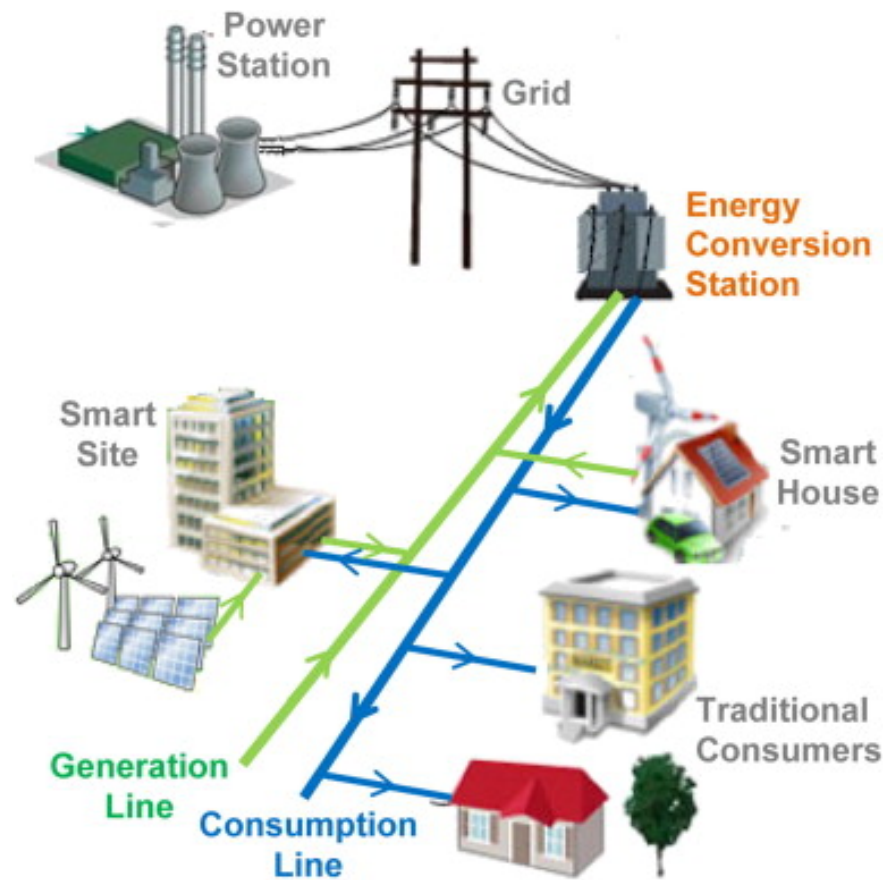
Renewables share from 2% to 30% in 8 years



UK electricity generation by source, terawatt hours (TWh), 1996-2017. Shares of UK electricity generation (%). Source: [DUKES 2018](#) Table 5.6. Chart by Carbon Brief using [Highcharts](#).

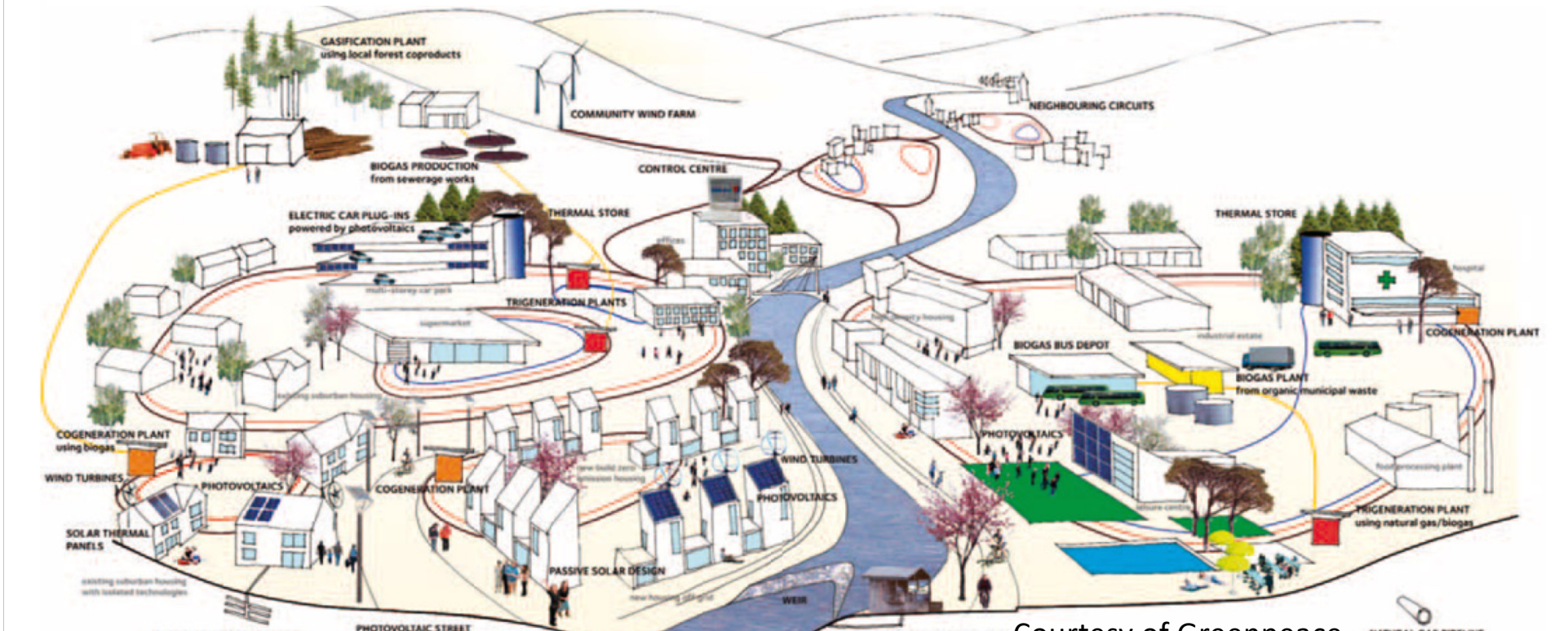
# A New Model

Changing the model of energy delivery from centralised to distributed generation



# The Future

Our energy future optimizes the output of nature through technology



Courtesy of Greenpeace

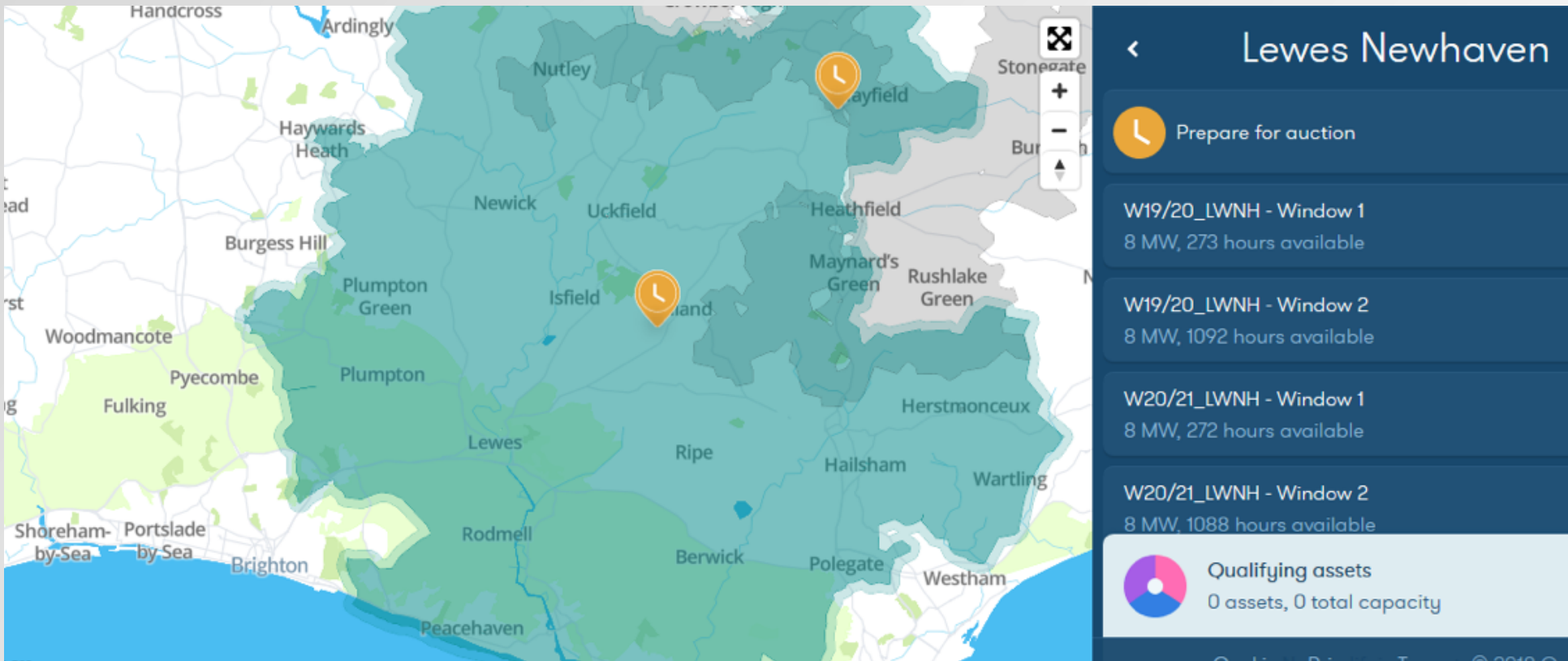
# Battery Storage



6MW  
battery  
storage  
facility at  
Leighton  
Buzzard



# Peer-to-Peer Trading



Courtesy of Pico



# Case Study 1- heat networks new developments



Shared ground  
loop heat  
pump system

£4,200 annual  
savings

86 tonnes CO<sub>2</sub>  
annual savings

## Case Study 2 – urban office premises



4kW rooftop solar PV +  
LED lighting – ASHP and  
roof insulation



£240 annual savings

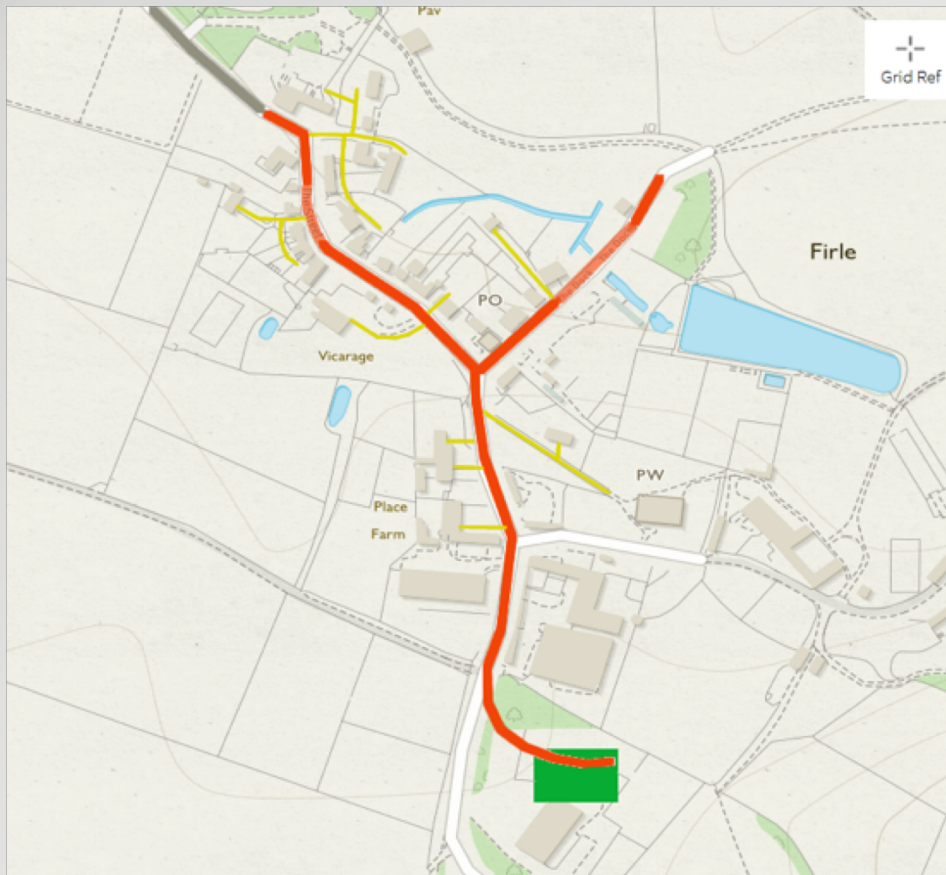


3.8 tonnes annual  
CO<sub>2</sub> savings



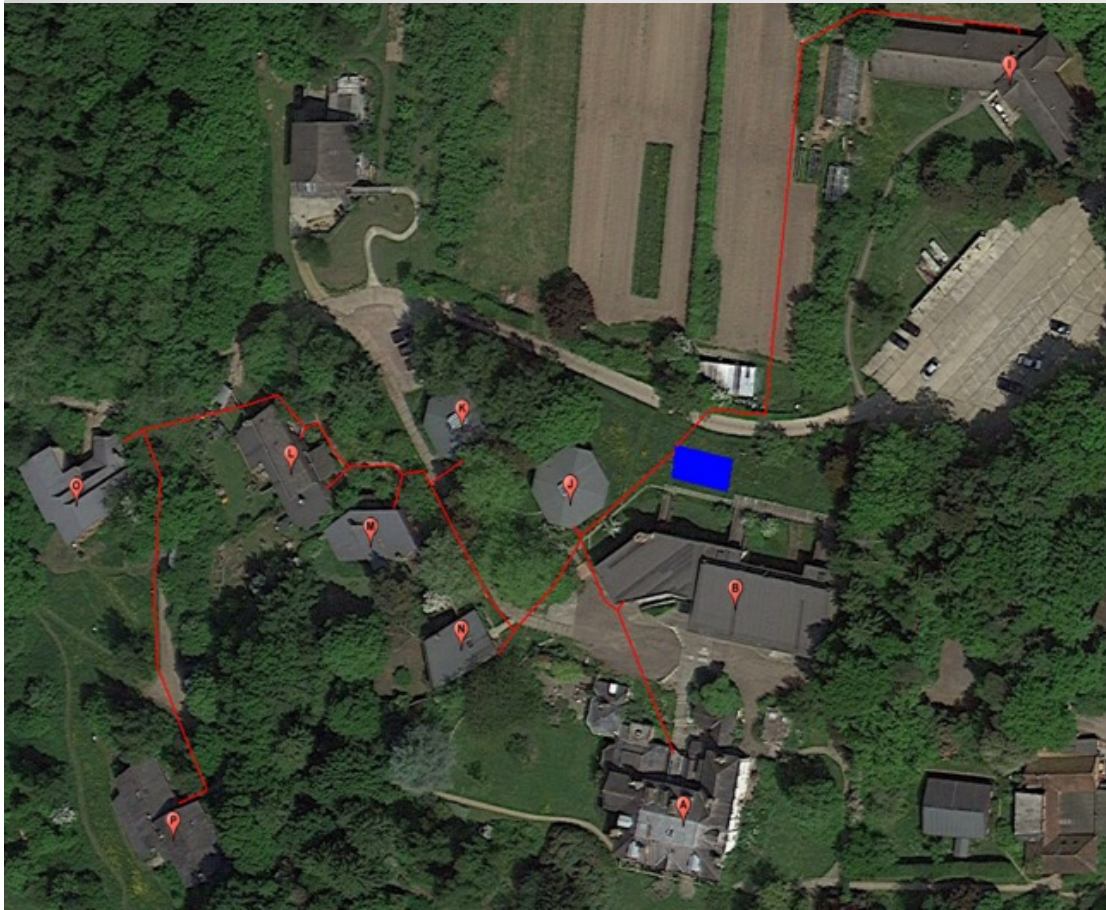
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# District Heating



- 💡 Low carbon heat network for an off-gas rural community
- 💡 5-10% annual bill savings
- 💡 1,770 tonnes annual CO<sub>2</sub> savings

# College Campus – East Sussex



heat network:  
biomass for winter,  
solar thermal for summer

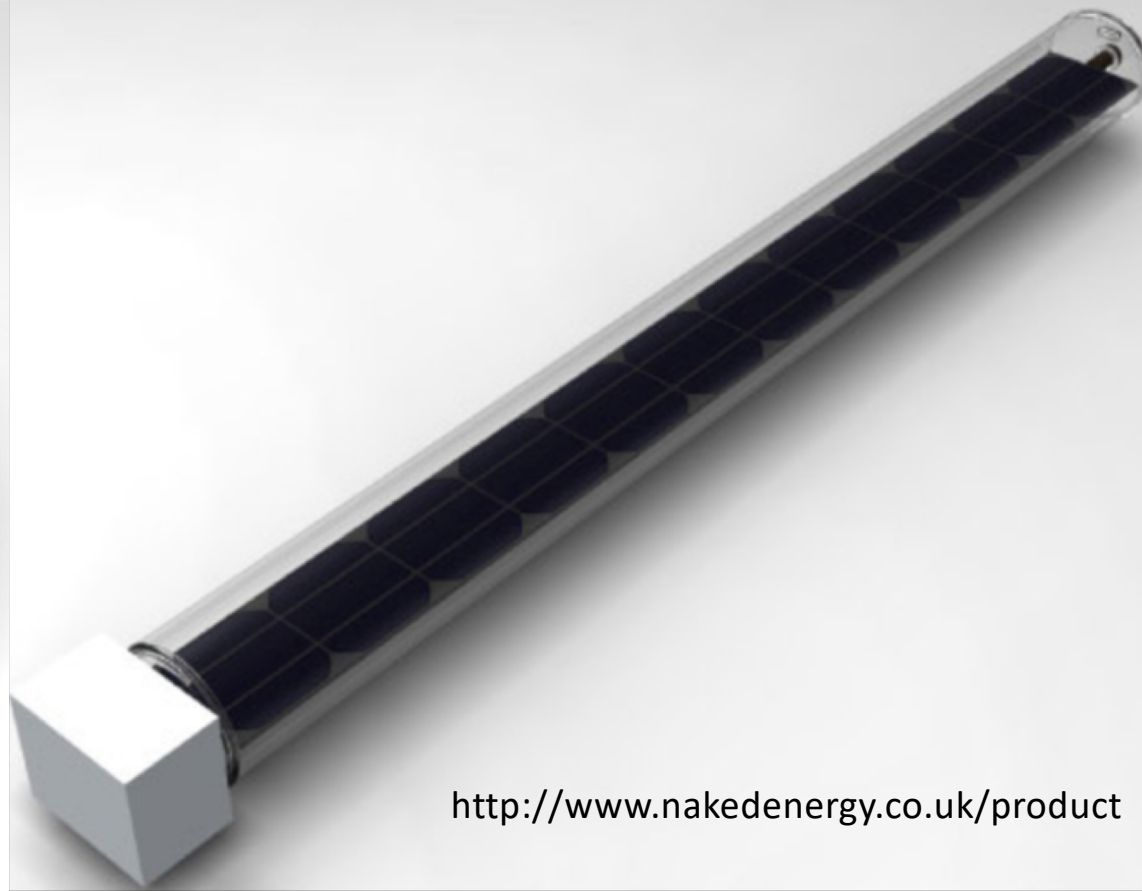


Savings £11,360/year



160 tonnes annual CO<sub>2</sub>  
savings

# Which is better???



<http://www.nakedenergy.co.uk/product>

**PVT**

Naked  
Energy  
Virtu



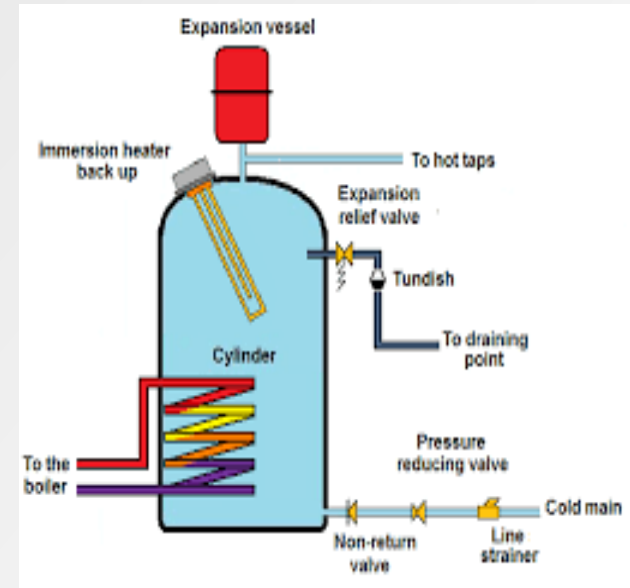
# Which is better???



+



+



Solar monocrystalline silicon + power diverter + immersion water cylinder.



ofgem

future  
insights



BHESCO named  
Local Energy  
Archetype

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