

# Cornwall's energy future

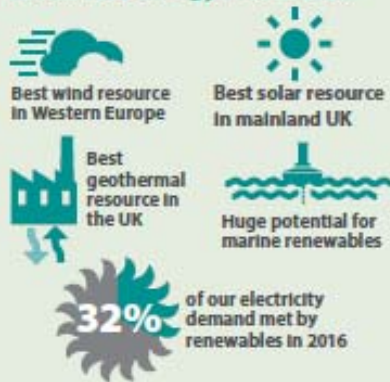
We will create an energy future that is cleaner and more affordable, retaining the social and economic benefits in Cornwall.



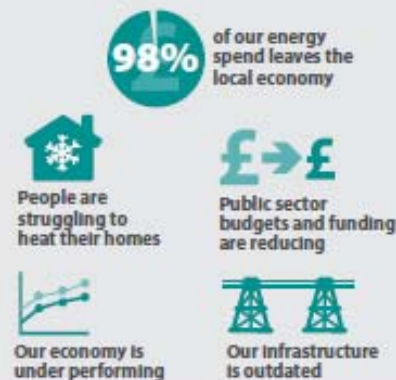
CORNWALL & ISLES OF SCILLY  
LOCAL ENTERPRISE PARTNERSHIP



## Cornwall has a wealth of renewable energy resources...



but Cornwall is not benefiting and we currently spend £1bn a year on our energy



## We will exploit this unique opportunity to...

### Tackle energy inequalities

Making our homes, businesses and transport greener and more affordable.



### Take local control of our energy

Generating, owning and using our energy locally to reduce bills.



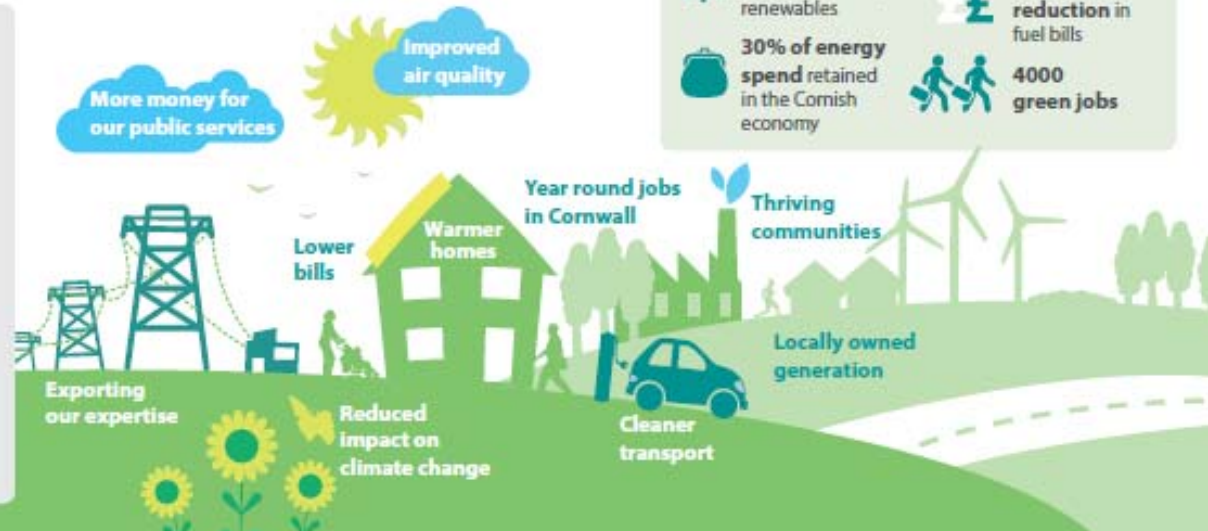
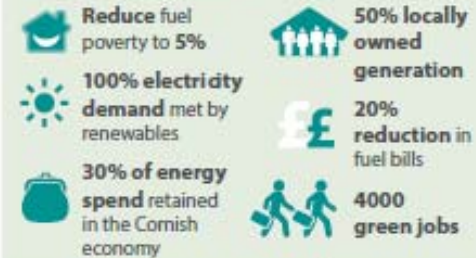
### Become a world-leading green economy

Retaining benefits in our communities and securing year round jobs.



## We will create an energy future that is cleaner and more affordable, retaining benefits in Cornwall

### 2030 outcomes







# ERDF Low Carbon Investments

## £68m total funding contracted

- Local Energy Market £18.7m
- Cornwall New Energy £6.5m
- Jubilee Pool Geothermal Heat £1.8m
- Smart Islands £10.8m
- Wave Hub cable extensions £3.2m
- Marine Technology RD&I Hub £9.3m
- United Downs Deep Geothermal £18m

## Another £27.6m allocated

- Low carbon transport systems £7.2m
- Energy Efficiency £1.95m
- Low Carbon £9m
- Geothermal £8.7m

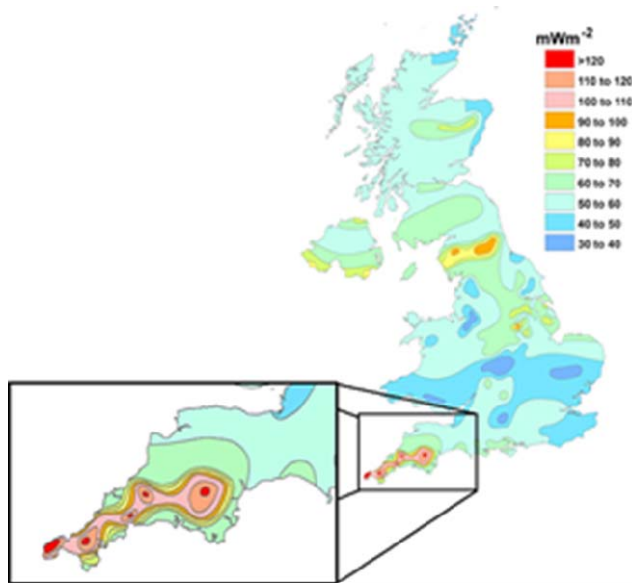
**Totalling circa £107m of investment into low carbon across CloS  
(£34m of match funding)**

# Why geothermal?

'Hot Dry Rock's' test site

- 1970-80's 2km boreholes 79°C
- 2014 extracting 60°C from 1.8km

160-180°C at 4-5km



Renewable Energy Agency report  
4GWe (SKM 2012)

**DECC report 100MWe based on  
heat load demand(Atkins 2013)**

£500m investment

Power to > ½ Cornish homes

c. 20% Cornwall's emissions

Base load or flexible power

Small footprint on the landscape

Affordable warmth

Jobs and research



# Eden-EGS Energy and Jubilee Pool



Eden-EGS Energy

£8.7m ERDF

£1.4m Cornwall Council

£5.3m private sector

Jubilee Pool heat only project

£1.4m ERDF

£300,000 private





# United Downs Deep Geothermal

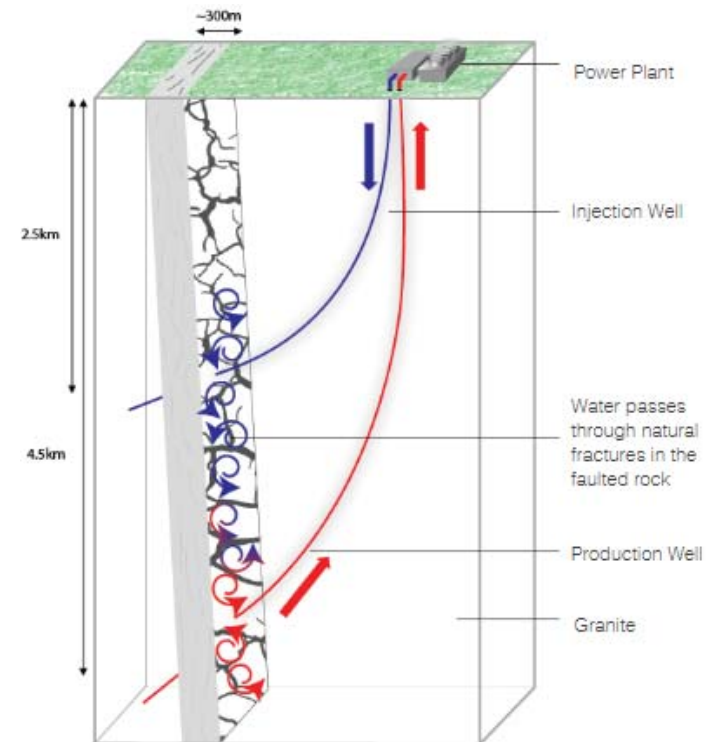
£10.6m ERDF

£2.4m Cornwall Council

£5m private sector

Drilling in July 2018

Rig currently in Espoo



# Geothermal and valuable minerals



- Devolution Deal 2
- Investment Programme
- Industrial Strategy Challenge Funds
  - EV battery technologies
- Local Industrial Strategy
  - Strength in Places
- Post Brexit
  - ESIF – Shared Prosperity Funds



Cornwall Council  
County Hall  
Truro **TR1 3AY**

Caroline Carroll  
Innovation Lead  
[caroline.carroll@cornwall.gov.uk](mailto:caroline.carroll@cornwall.gov.uk)

