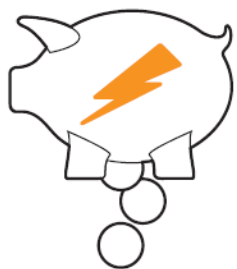


Cornwall's Deep Geothermal Vision

Caroline Carroll
Geothermal Policy Officer
Cornwall Council

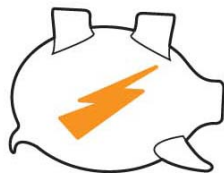
Cornwall



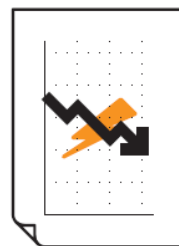
lost revenue



off grid gas



fuel poverty



low investment



fuel security

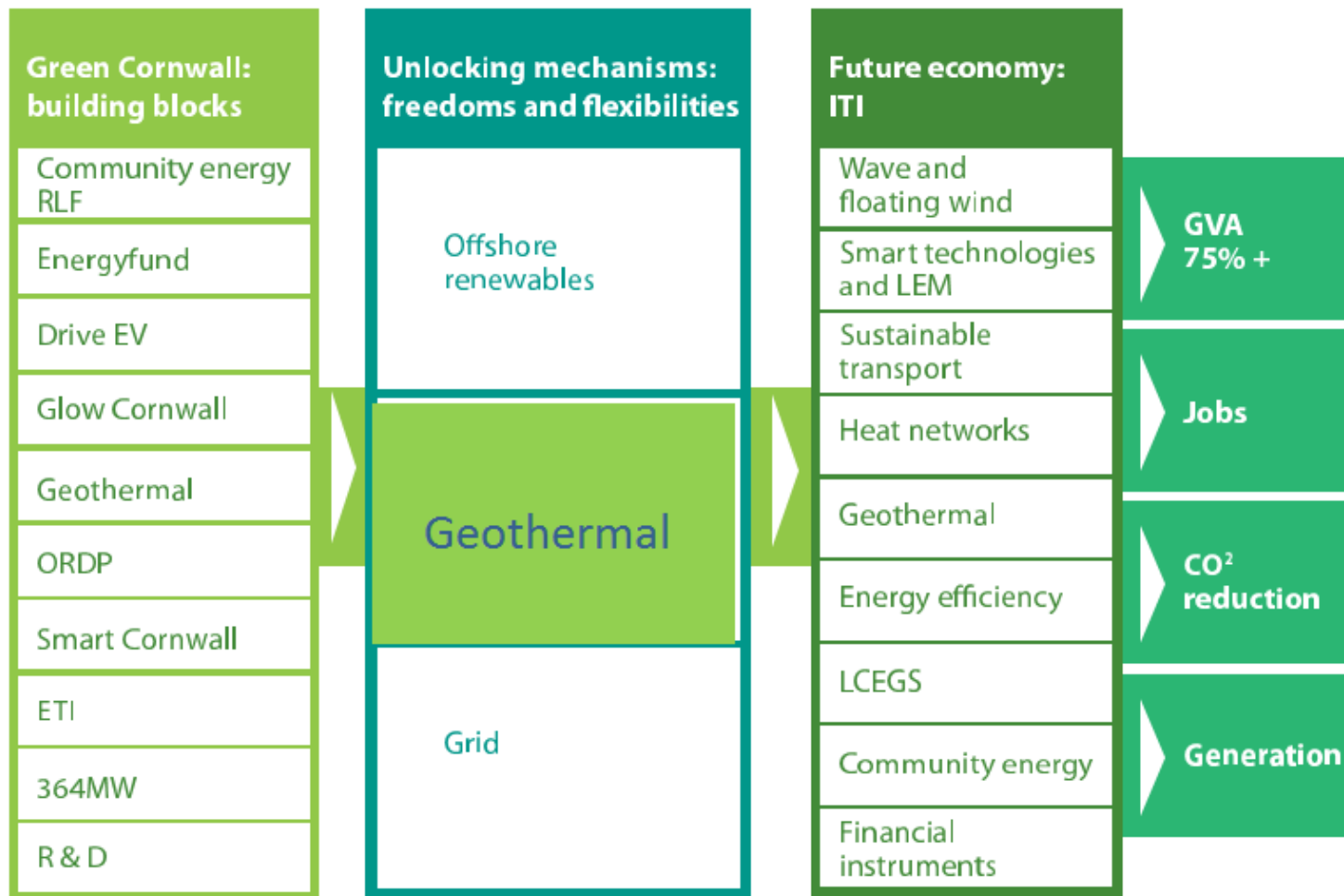


community resilience

- 465MW installed (sept 2014)
 - 22% of electricity
 - 7% of energy
- Additional 392MW with permission
 - 15% of energy

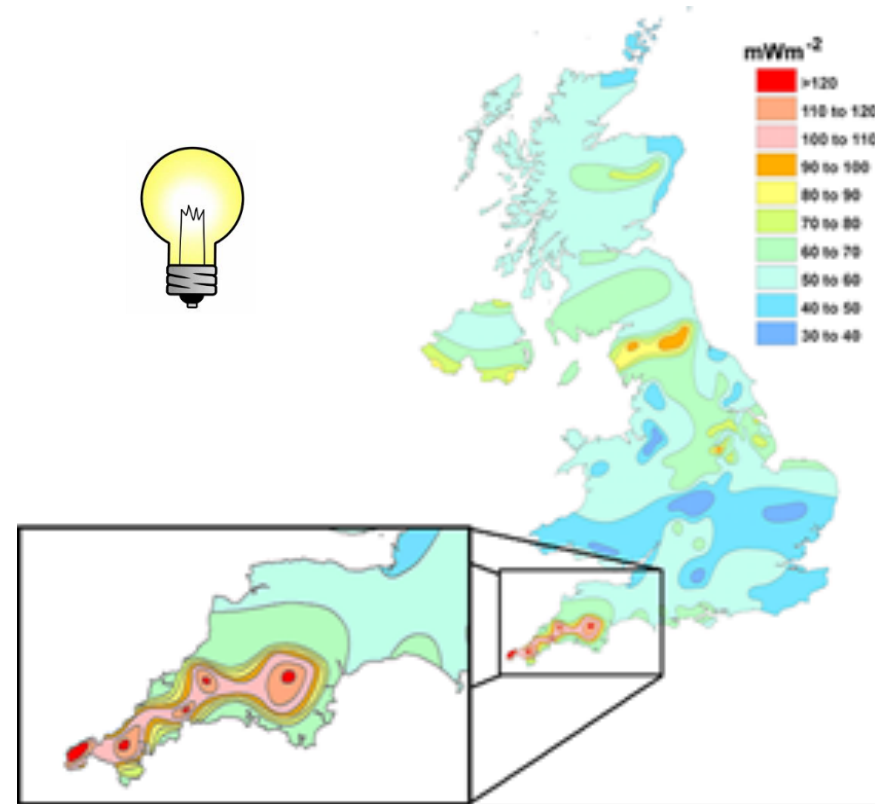


Cornwall's low carbon journey



Geothermal resource

- 'Hot Dry Rock's' test site
 - 1970-80's 2km boreholes 79°C
 - 2014 extracting 60°C from 1.8km
- At 4-5km expect 160-180°C
- 2012, REA (SKM) report
 - 4GWe
- 2013 DECC (Atkins) report
 - 100MWe based on heat load demand

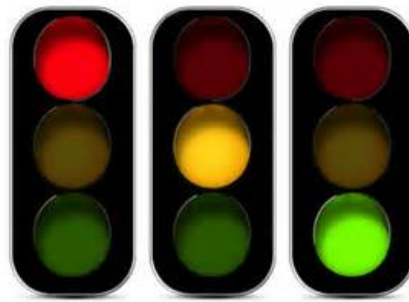


Benefits and opportunities

- c. 20% - 100% Cornwall's emissions
- Power to > ½ Cornish homes or exporters
- Cornish tariff
- Base load or flexible power
- Affordable warmth
 - Low carbon heat zones
 - District heating
 - Existing industry
- Jobs
- Research
- Small footprint on the landscape



2012

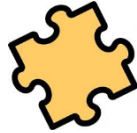


2014

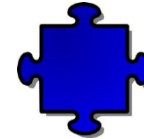
- high front end costs
- risk/return ratio of a project
- insufficient returns for investors
- lack of public funding
- national political support
- local support

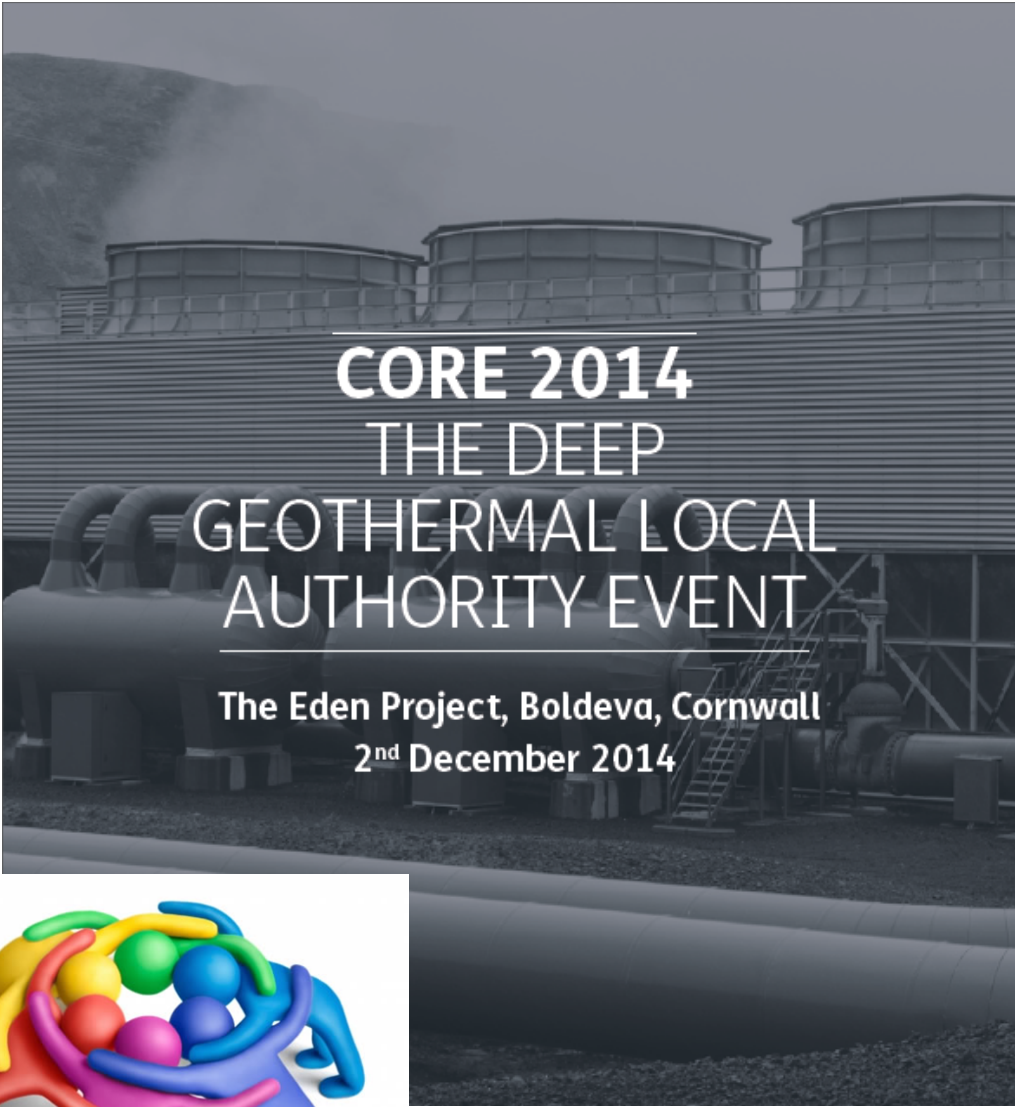
- high front end costs
- risk/return ratio of a project
- insufficient returns for investors
- lack of public funding
- national political support
- **local support**

The challenge



- 2 projects with planning permission
- Best use of public funding
 - Call for proposals Q2, 2015
- Overcome the immediate and longer term issues
- Local Growth Geothermal Working Group with DECC
- Private sector investor confidence
- Future plans
 - Heat mapping, spatial planning
 - Centre of Excellence
- Maximising the benefits to Cornwall





CORE 2014 THE DEEP GEOTHERMAL LOCAL AUTHORITY EVENT

The Eden Project, Boldeva, Cornwall
2nd December 2014



A growing number of Local Authorities are investigating the opportunities that geothermal offers.

In recent years a number of studies have identified the barriers faced by the industry and proposed solutions.

Cornwall Council, with support from other Local Authorities, is hosting an event to provide a forum for expert discussions; helping other Councils to overcome the challenges and realise their geothermal ambitions.

The event is being organised by **energyshare**. For more information or to discuss potential sponsorship opportunities, please contact geothermal@energyshare.com



working with

