

# Future challenges and opportunities for community energy: Renewable energy at a tipping point

Jake Burnyeat

Communities for Renewables CIC (CfR)

[www.cfrbic.co.uk](http://www.cfrbic.co.uk)

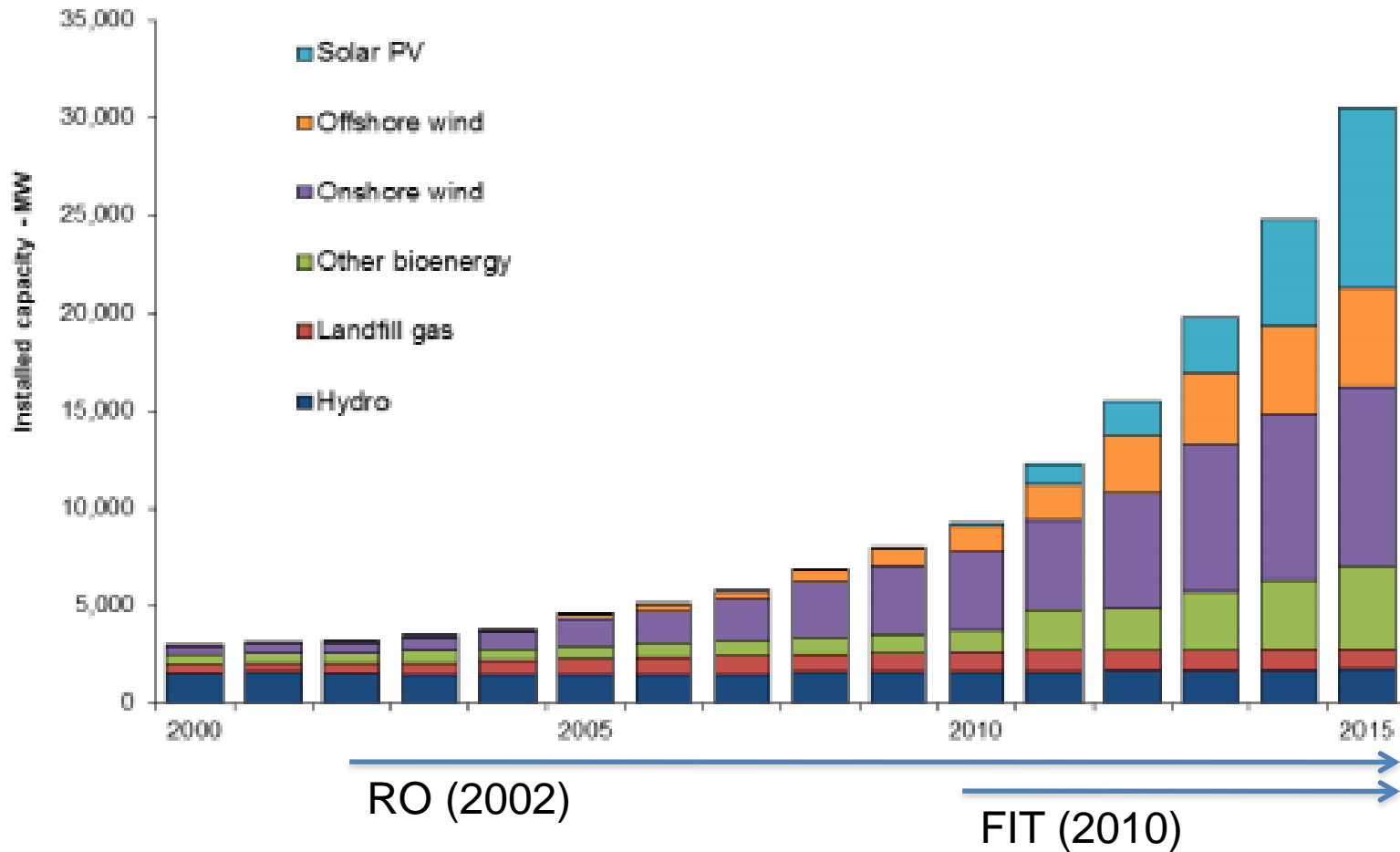


# Delablolle wind farm 1991

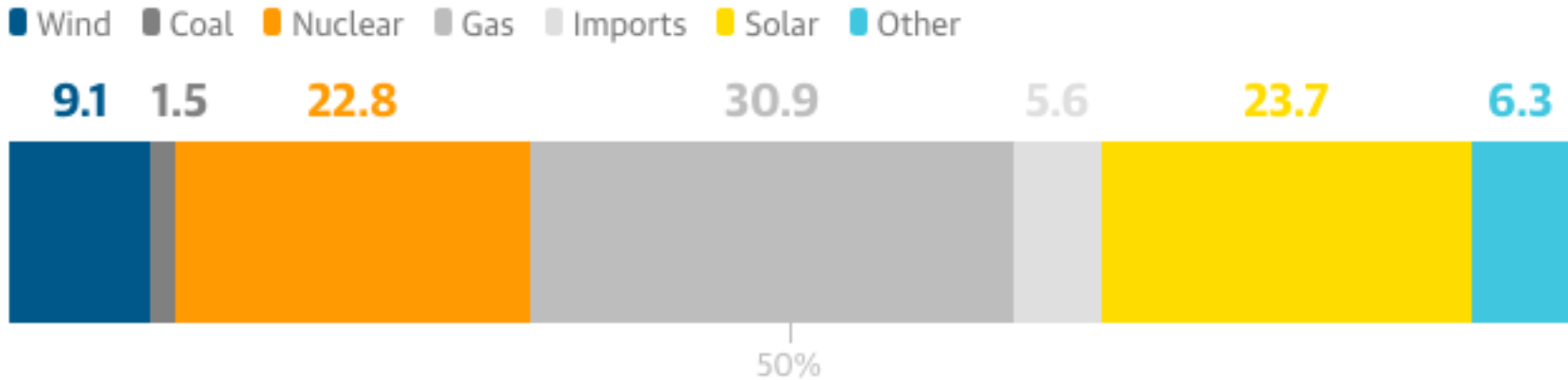


NFFO (1990)

# Subsidies have driven rapid growth in renewables



# Solar provided a record percentage of UK power at 1pm on 26 May 2017



Guardian graphic | Source: MyGridGB

## Solar power breaks UK records thanks to sunny weather

Thousands of photovoltaic panels across the UK generate 8.7GW, smashing previous high of 8.48GW earlier this month



Solar energy has grown from almost nothing to 11GW in seven years. Photograph: Carl Court/Getty Images

The Telegraph

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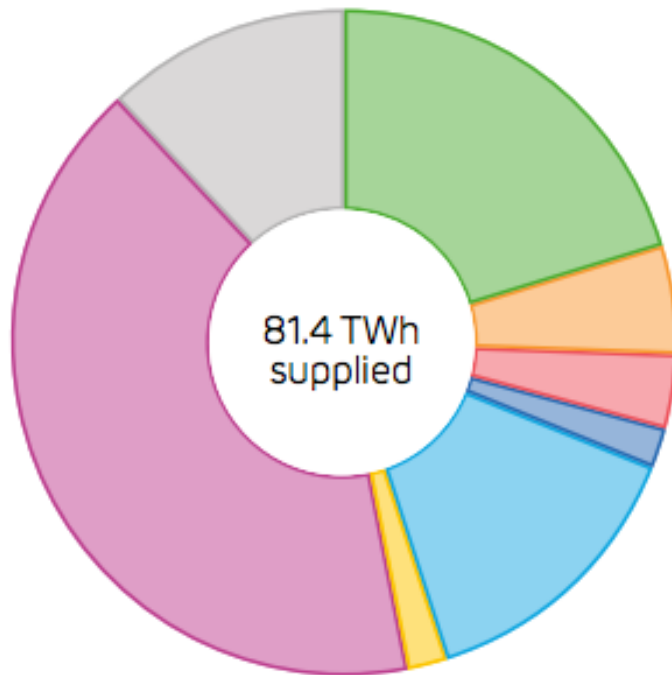
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## UK sets new renewable energy record as wind and solar surge

# Nearly 25% of UK elec from renewables Q1 2017

Britain's electricity supply mix in the first quarter of 2017



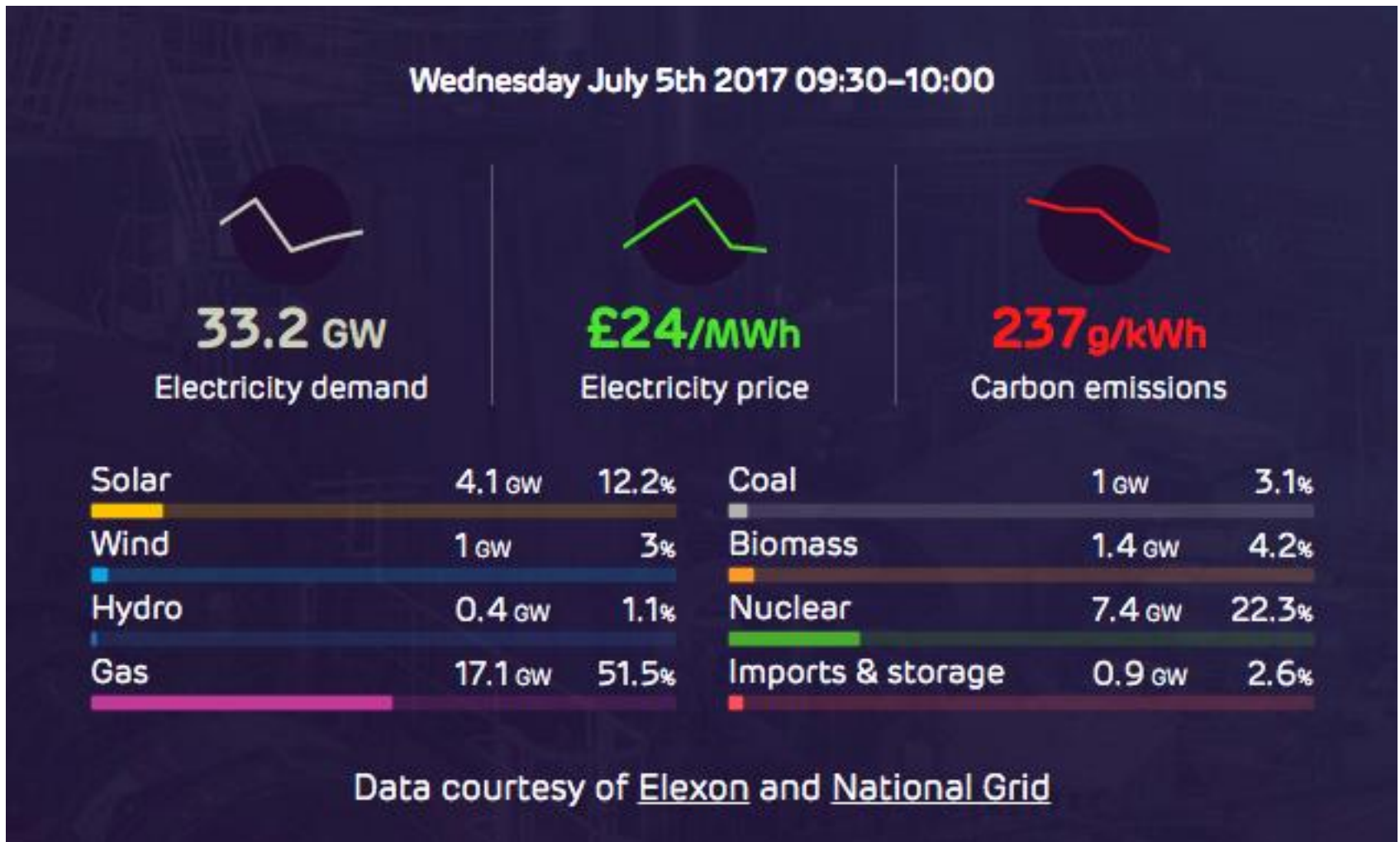
	Output (TWh)	% of mix
Nuclear	16.5	20.2%
Biomass	4.4	5.4%
Imports	3.0	3.7%
Hydro	1.6	2.0%
Wind	11.3	13.9%
Solar	1.5	1.9%
Gas	33.3	40.9%
Coal	9.7	11.9%

Installed capacity and electricity produced by each technology in the first quarter of 2017

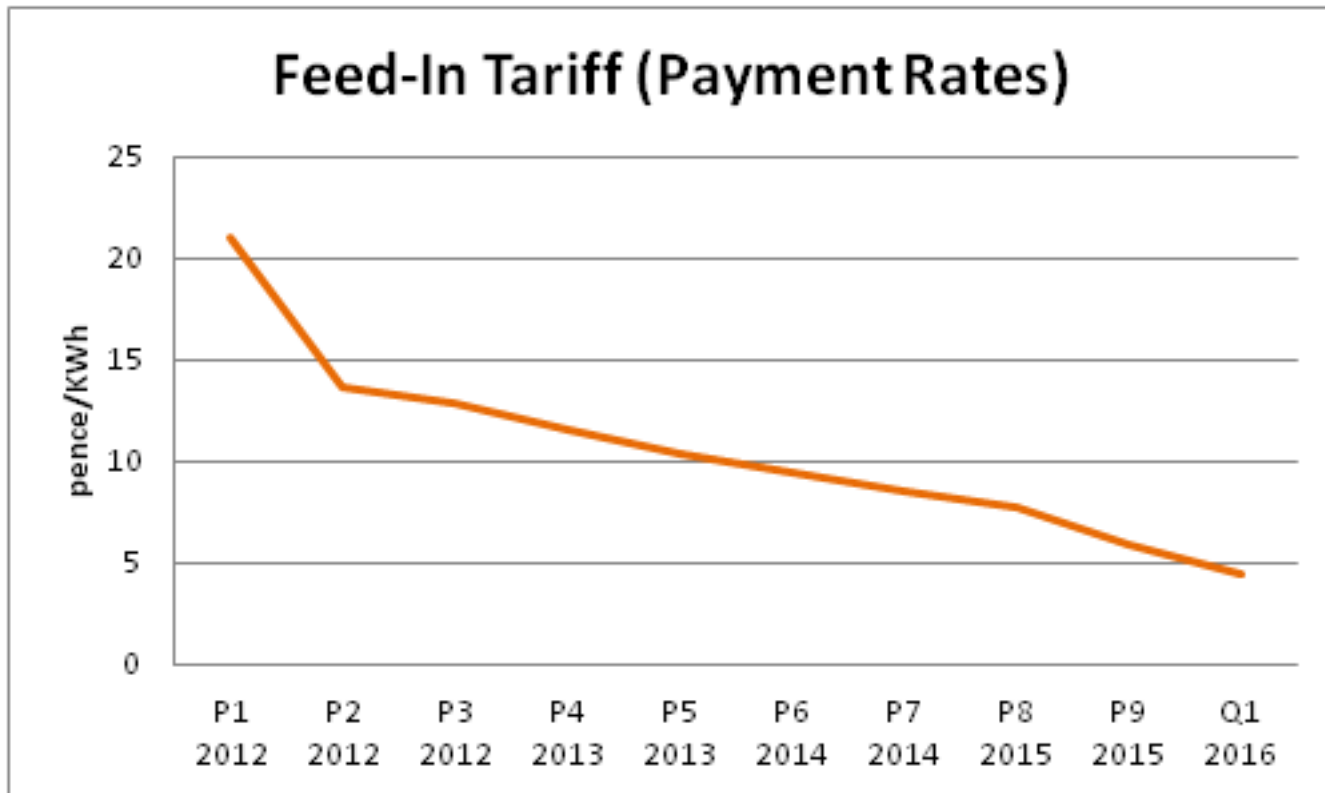
c.9% over the full year of 2016



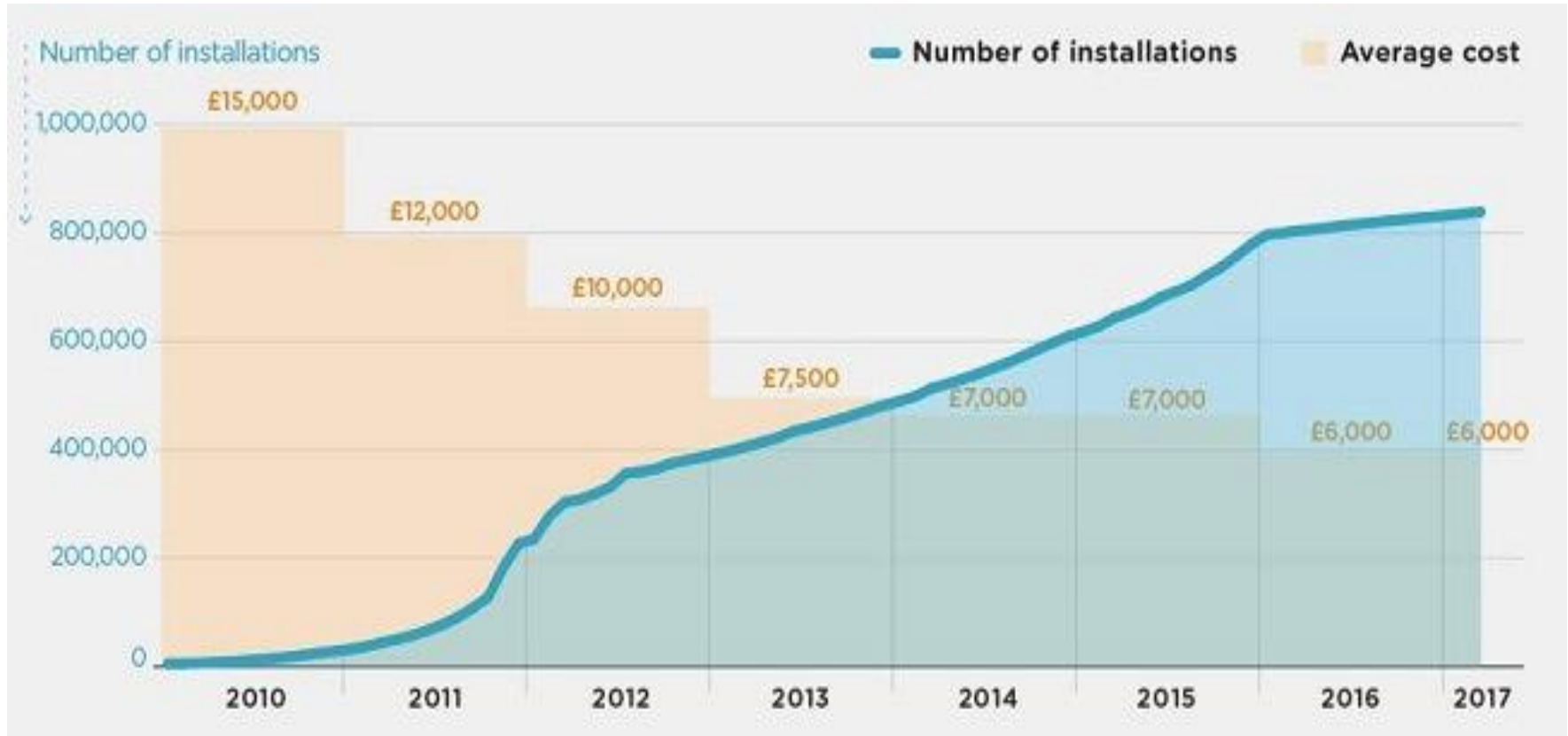
# Nearly 18% of UK elec this morning



# That's happened despite reducing subsidies



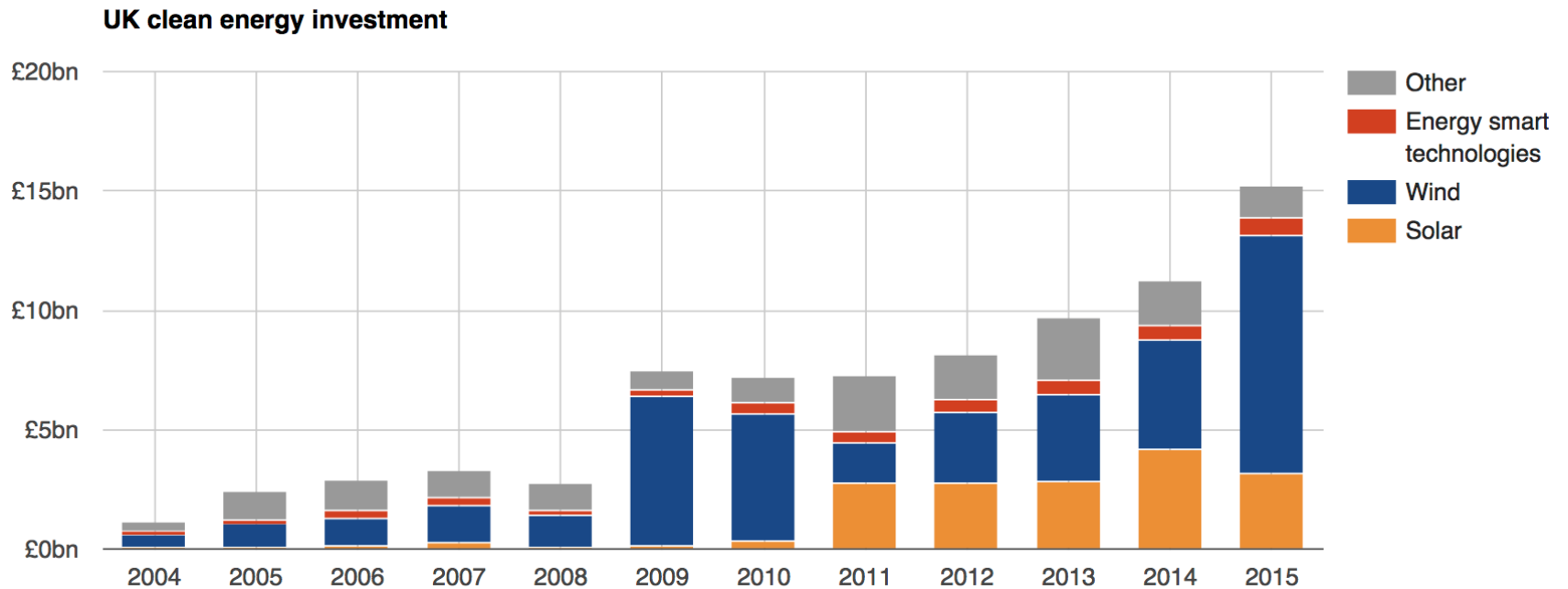
# Because global market grown is driving down costs



Domestic solar install costs and market growth

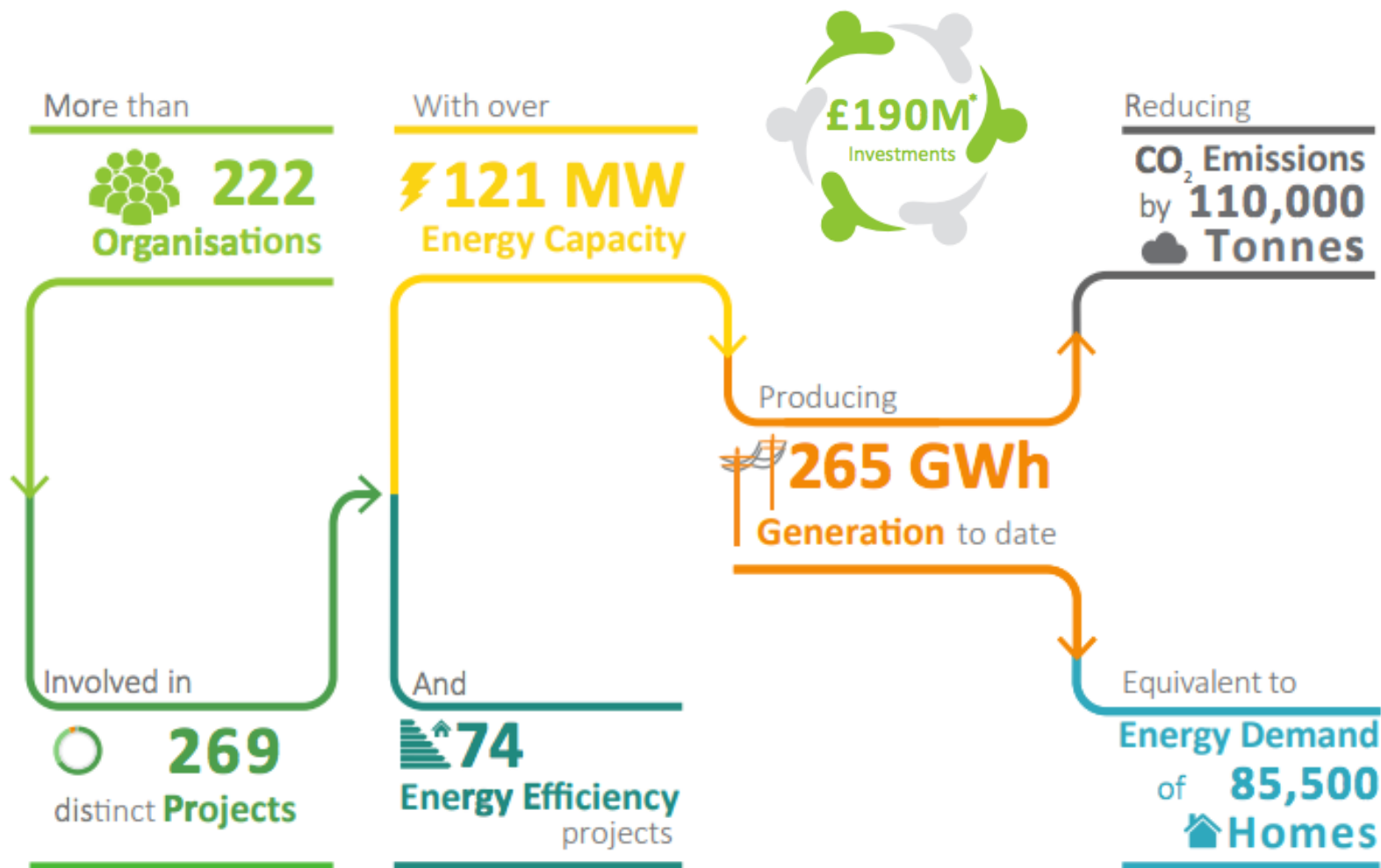


# £ billions invested in UK renewables



Where does the money come from and go to ?

# The rise of community energy



Figs exclude Scotland and NI

# Challenges and opportunities

## Challenges

- Revenue subsidy cuts
- Economics marginal
- Planning shut-down for wind
- Grid constraints
- Finance in a post-subsidy market

## Opportunities

- Roof-top solar viable where power used on-site
- Ground-mount solar close to being viable without subsidy
- Community buy-back of operational projects
- Low cost finance models and ISA-based crowd funding
- Local supply models in next few years
- Storage

# A local energy enterprise in 5 years' time?

Generating a significant share of the locality's energy needs

Supplying homes and business with electricity and heat

Providing advice and services to help make buildings more efficient

South Dartmoor  
Community Energy

Advice service to help people struggling with their bills

Funding for local community projects

Returns to local investors (inc ISA/SIP)

Storage to help balance the grid

Employing local people

Low carbon transport?

# Contact

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# About CfR CIC

## Not for profit CIC providing:

- Local energy enterprise set up and strategic advice
- Renewable energy project development support
- At-risk investment to fund development costs
- Finance raising commercial advice and management
- Asset management and company admin support

## Experience includes:

- Worked with over 20 local energy enterprises, mostly in the South West
- Helped deliver £30 million of community solar over last 2 years
- Advised local authorities and social landlords on renewable energy business models, project development and financing

