

CARDIFF COMMUNITY ENERGY
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SO WHAT IS COMMUNITY ENERGY?

- **Non-profit groups, mostly volunteers**
- **Installing community funded renewable energy**
- **About 220 groups in the UK**
- **With 188 MW of generating capacity**
- **Groups share experience and information**
 - a movement!

(800+ groups in Germany with 1,000+ MW)

EXAMPLES OF COMMUNITY ENERGY WORKING WITH LOCAL AUTHORITIES



- **Swansea** **£460k community shares**
- **Plymouth** **£1.45M community shares**
- **Swindon** **£4.2M bonds**
- **Bristol** **£10.9M bonds + shares**

One of Denmark's 1000+ community energy groups owns half of a 40MW offshore wind farm

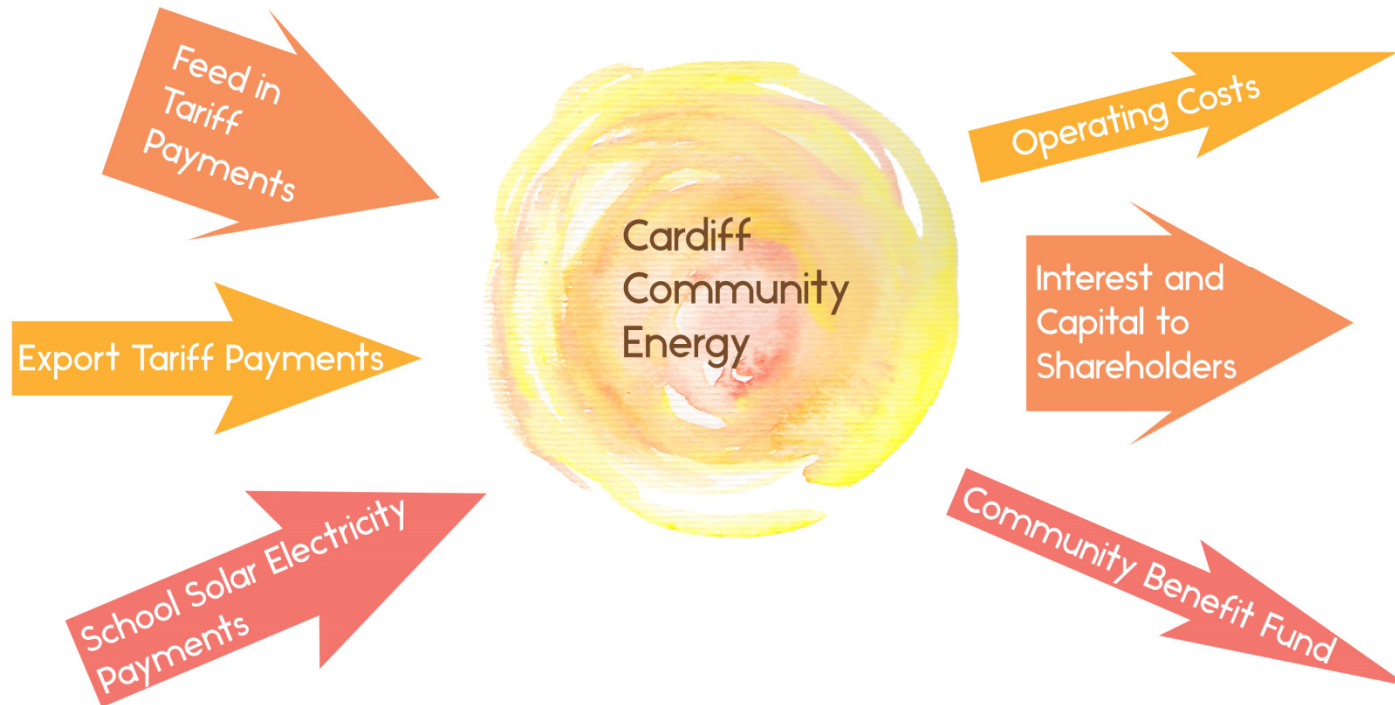
HOW IT WORKS

Money Flows for Setting Up



HOW IT WORKS

Money Flows for 20 Years



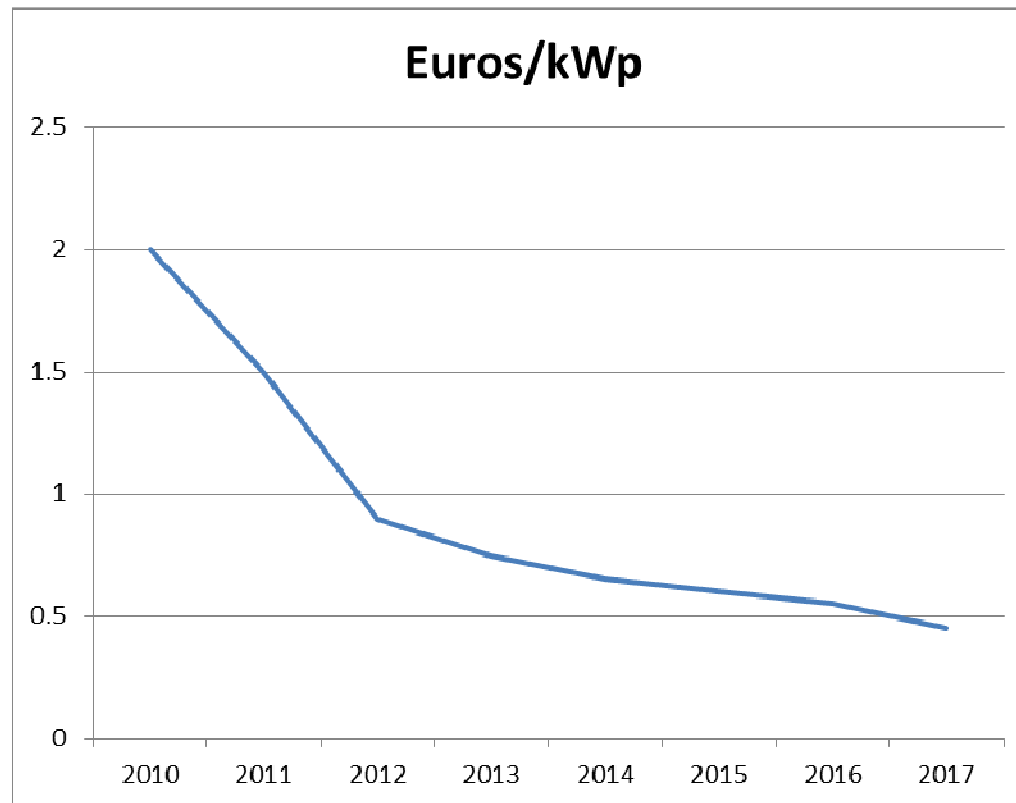
CURRENT ECONOMICS

- **FIT very low now and soon to disappear**
- **“Free” electricity a thing of the past**

BUT

- **Panel prices much lower than before**
- **Onsite electricity at less than grid cost and fixed to RPI for 25 years**
- **Money still circulates in local economy**

CURRENT ECONOMICS



THE NEXT FEW YEARS?

- **Panel prices continue to fall**
- **Battery prices falling fast too**
(70% drop since 2012 and falling)
- **Lots of “second life” car batteries becoming available soon**
- **Batteries allow electricity generated in daylight to be used after sunset**

THE NEXT 10-20 YEARS

- **Almost every roof with PV + battery**
- **Most housing, offices and shops with 50% + electricity generated on site**
- **Car park canopies – EV charging points**
- **Electric road transport taking over**
- **buses, taxis, recycling trucks, fleet cars**
- **Heat pumps**

PLAN NOW

FOR WHAT WILL BE ECONOMICALLY VIABLE SOON

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