Creating a world fit for the future





# The Rural Community Energy Fund (RCEF) and policy context





### **Project scope and approach**



### **Project Aims**

- 1. Assess funding process end-to-end
- 2. Assess how RCEF used to gain planning permission

- 3. Model projects future costs and benefits
- 4. Evaluate economic, social and environmental impacts to rural communities

### Phase 1 – Defining analysis framework

- Intervention logic / theory of change
- Social theory of change
- Initial fieldwork / consultation with stakeholders to test frameworks

# Phase 2 – Model development

- Review existing economic appraisal model
  - Social return on investment (SROI) module
- Peer review

### Phase 3 – Ongoing monitoring and 'process' evaluation

- Telephone and face-to-face interviews
- Comparison to Phase 1 expectations
- Analysis of 'process'

#### Phase 4 – Ex-post evaluation

- Analysis of monitoring and financial data
- Comprehensive cost-benefit analysis (incl. SROI)
- Telephone interviews
- Additionality assessment

### 3 year timeline (2014 - 2017)

# Limitations



- At the time of the evaluation, RCEF was still live
- Feasibility studies presented viability at the time study was undertaken
- **×** Interviews were not achieved with all projects
- Modelling only captured narrow range of environmental impacts



# **Outcomes and impacts (to mid-October 2016)**



#### Outcomes – Stage 1

- 50 Stage 1 feasibility studies accepted, identifying 213 'opportunities'
- 58% opportunities for renewable electricity
- Most popular: Solar PV
- Of 213 opportunities considered, <u>23 (across</u> <u>14 projects) assessed as complete / likely</u> <u>to be successful</u>
- 11.6 MW renewable electricity and 2.3 MWth renewable heat capacity

### Outcomes – Stage 2

- 9 Stage 2 loan applications made:
- 4 awarded, 3 not progressed by applicant, 1 declined and 1 currently in assessment

#### Social return on investment

- **Knowledge generation** often concentrated amongst key players who then use this to develop interest across the community.
- focus for *stimulating interest* in community and renewable energy
- vehicle for *community participation*
- helped *build confidence* of leaders and other stakeholders in specific ways
- Instigated and developed a number of fruitful relationships between organisations and community groups
- cooperative working between community projects in different areas, leading to the *spread of ideas and good practice*

#### **CBA** – Rural communities

- Substantial net benefit over lifetime
- Key benefit: receipt of supporting subsidies (£39m in subsidy payments, plus £8m in energy bill savings)
- Relative to capex of £24m and opex of £15m
- Plus SROI = £15.6m

### CBA – 'UK plc'

- Scheme also delivers *net benefit* over lifetime (although smaller than rural communities)
- Subsidy payments no longer included
- But environmental benefits through reduction in GHG / air pollutant emissions
- 58 construction jobs and 22-48 jobs associated with ongoing operation

### **Explanatory factors – barriers and catalysts to success**



#### Barriers

- Stage 2 loan funding deemed expensive and/or *loan financing as unattractive*
- Changes to government policy and subsidy regime and impact on certainty of being able forecast revenue
- Landowners may not want to be tied in for long periods of time, or settle for relatively low rents
- **Public opposition** to wind projects due to landscape impacts
- Lack of knowledge about renewable energy. Sometimes overcome through development of partnerships and contacts, but led to many sites being missed
- Community groups may have a *fear of publicity* out of concern that a project may not go ahead

#### Catalysts

- Support of the Local Authority is deemed positive land use planning but also building a reputation locally
- Some actions helped speed up the process e.g. *pre*accreditation to lock in FiT rates
- Finding an *investor who is a good* fit can be a major catalyst
- Previous *knowledge and interest developed through LEAF and similar projects* can help to generate support and provide a catalyst to mobilising the community
- Applications are made and projects managed by the community organisation itself

# **Evaluation conclusions and policy recommendations**



#### RCEF HAS BEEN SUCCESSFUL IN ACHIEVING ITS AIMS

- · Previously un-recognised demand for renewables unlocked
- · Additionality suggests majority would not have gone ahead without RCEF
- Outcomes achieved against a challenging subsidy / planning backdrop

#### FINANCIAL AND KNOWLEDGE BARRIERS HAVE BEEN SOMEWHAT TACKLED, ALTHOUGH THEY REMAIN LARGE BARRIERS TO FUTURE UPTAKE

- Many projects based on vision / energy / capacity of a single individual or small group
- Has facilitated up skilling and confidence building re renewables
- Concerns raised over general accessibility

RCEF DELIVERED A NET BENEFIT, BOTH FOR RURAL COMMUNITIES AND UK PLC

- NPV cashflow to rural communities is estimated to be around £10.0m
- · Majority of proceeds likely to be put to work locally
- · Jobs created and some captured by local community
- SROI demonstrates wider value to rural communities (community engagement, volunteering and development of new social enterprises)

#### Policy recommendations

- Remain technology-neutral
- Include measures less reliant on subsidy (e.g. EE)
- Reconsider Stage 2 design
- Preliminary funding / capacity building
- Additional non-financial advisory support
- Promote awareness within LAs
- Additional promotion and community engagement generally

RCEF and its results depend critically on Government support for renewables, and this will continue to be a critical factor for any future scheme.

What happened next.....

- RCEF continues to provide funding for community renewable schemes following a relaunch in August 2019
- Stage 2 funding reduced but now administered as a grant
- Opened to considering bids from multi-technology approaches (e.g. EE, storage, EV charging....)
- LEHs have LA as accountable bodies for funding and representatives on their boards

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