



The current state of community renewable energy in Scotland

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Content

- I. The benefits of community-led renewable energy
- II. Key findings - Scotland
- III. The road ahead - Scotland
- IV. SCENE Connect

I. Community renewable energy – why?

1. Dispersal = Resilience

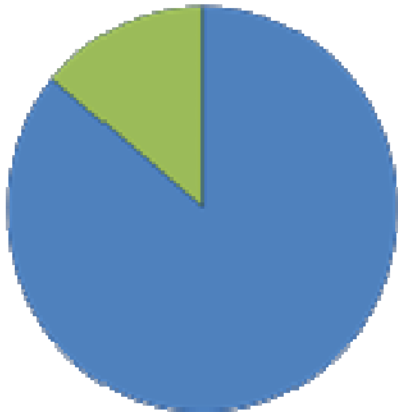
2. Financial and other benefits

**3. Heightened energy efficiency and
consciousness**

4. Ownership = Support

5. Market access and sectoral synergy

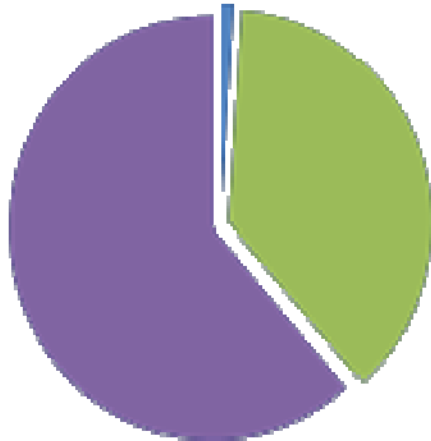
II. Scotland compared to 'mainland'



Denmark
(3734 MW)



Germany
(54430 MW)

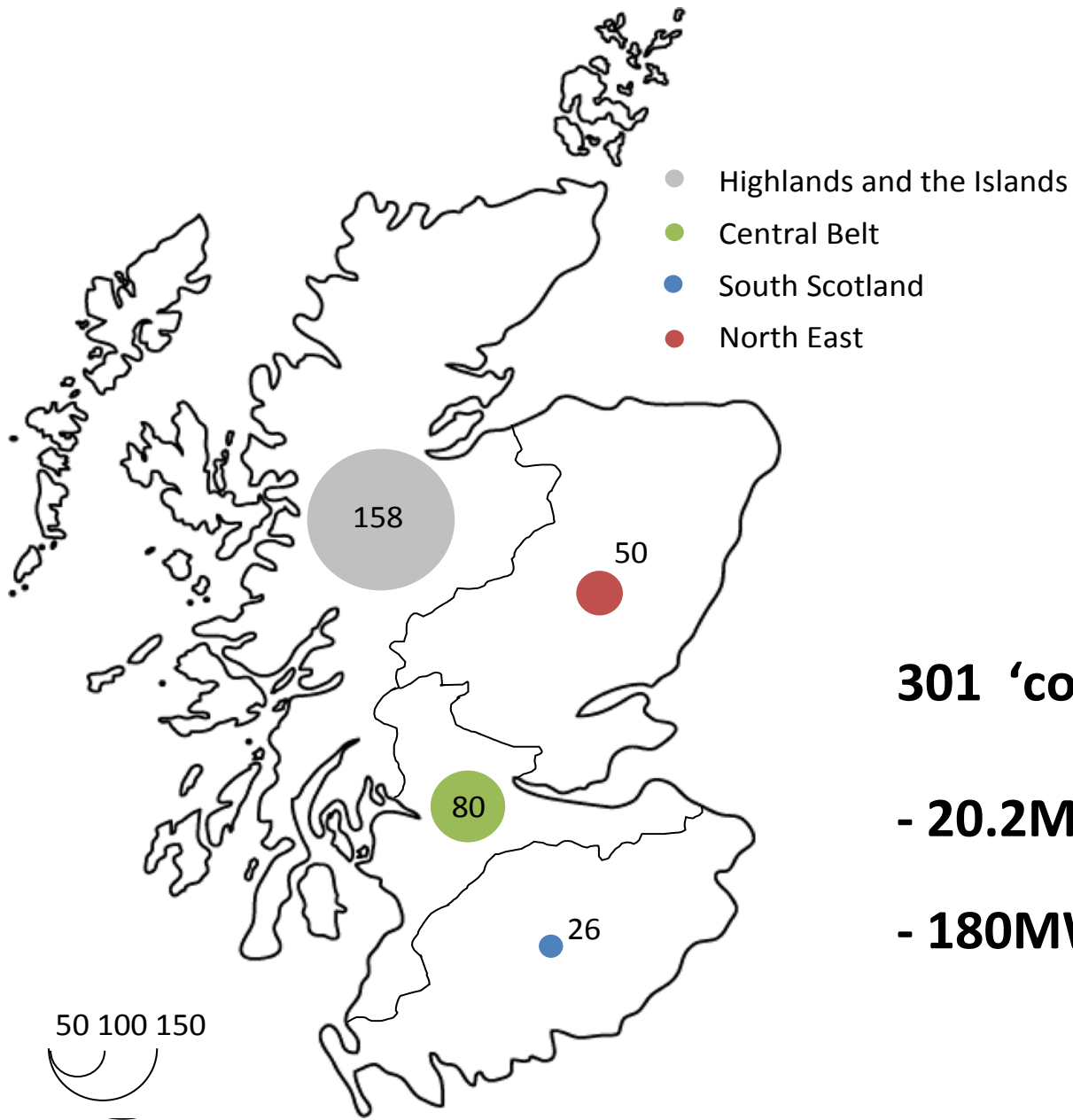


Scotland
(6590 MW)

■ Locally owned

■ Commercially owned

■ Estimated untapped potential



50 100 150



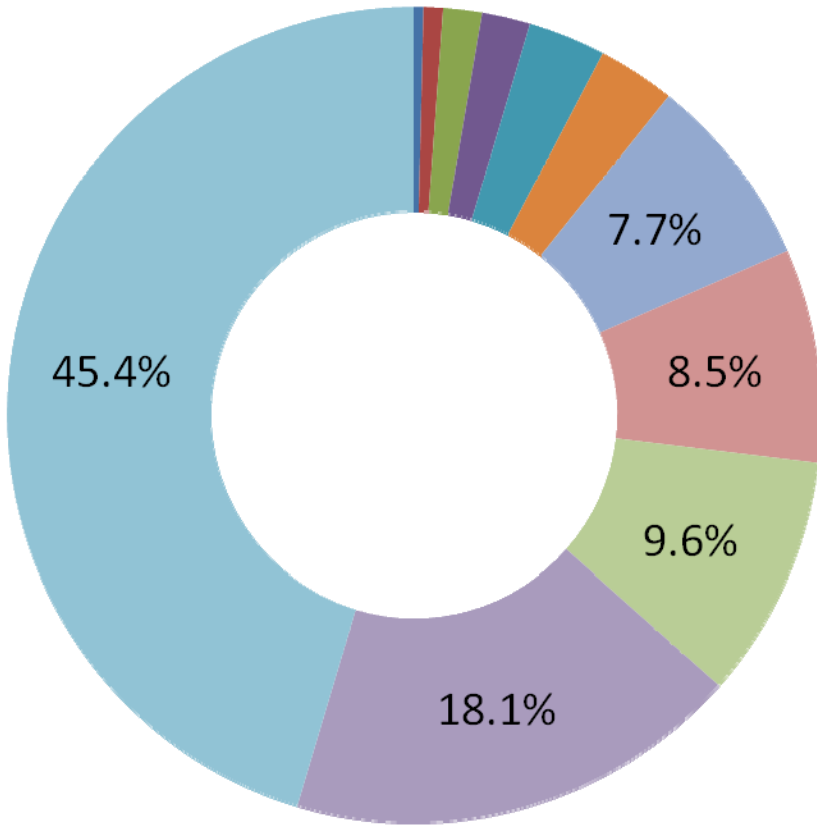
Number of Projects

301 'community' projects:

- 20.2MW operational

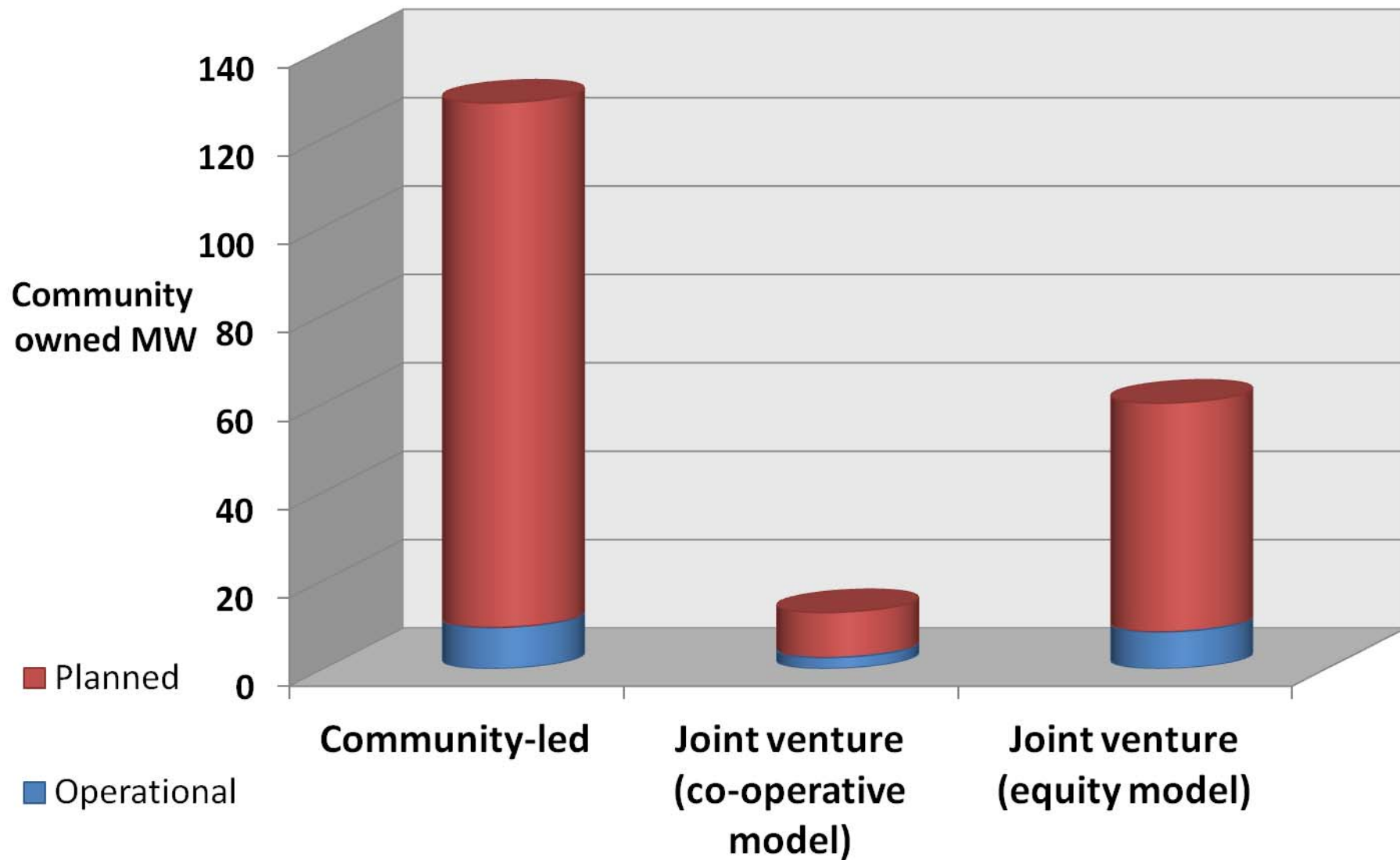
- 180MW in development

II. Technologies

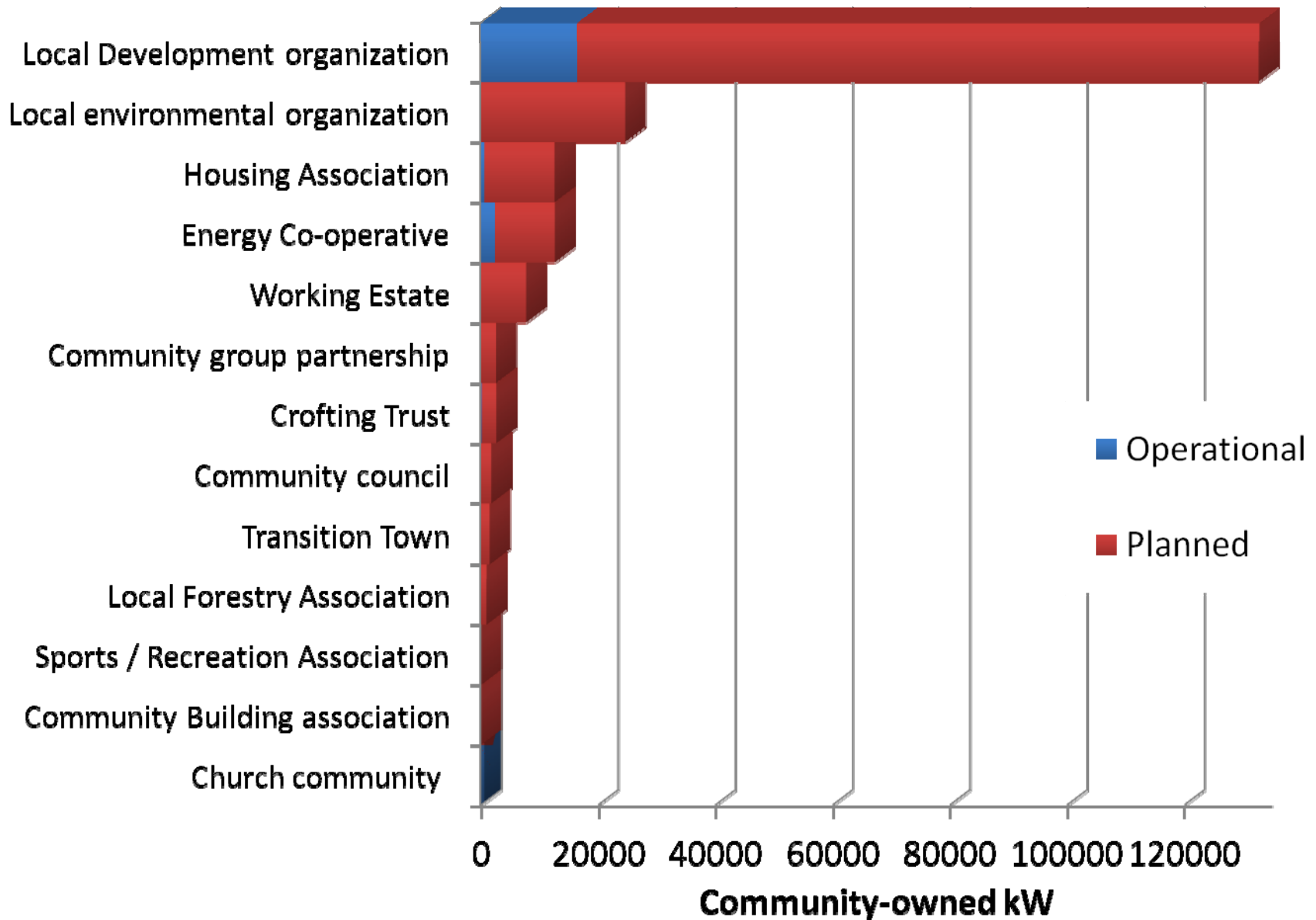


- Biofuel 0.4%
- Air Source Heat Pump 0.8%
- Ground source heat pump 1.5%
- Anaerobic Digestion 1.9%
- CHP - Biomass 3.1%
- Integrated 3.1%
- Solar Photovoltaic 7.7%
- Solar Thermal 8.5%
- Biomass 9.6%
- Hydro 18.1%
- Wind 45.4%

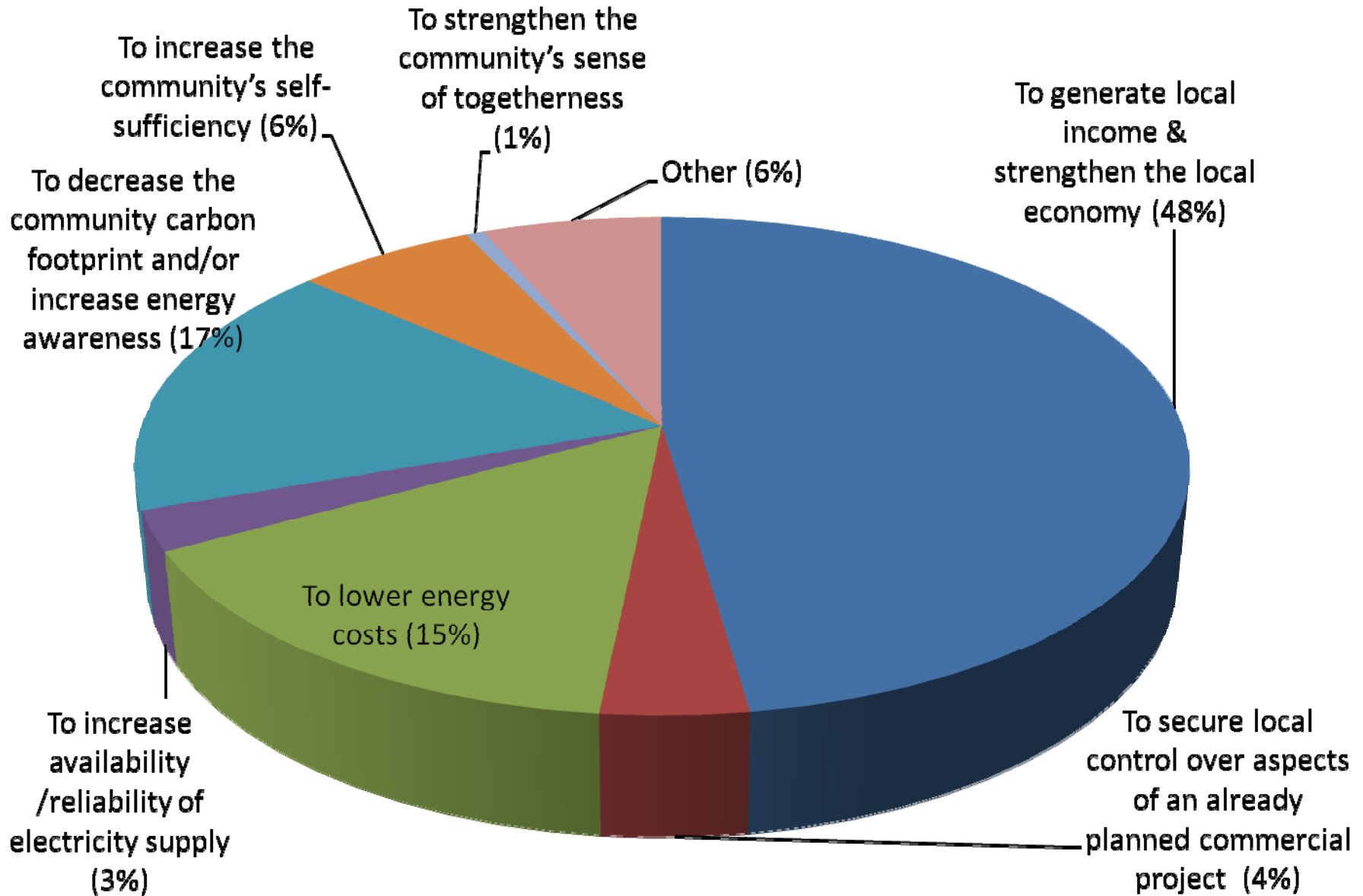
II. Business models



II. Organisational types



II. Motivation



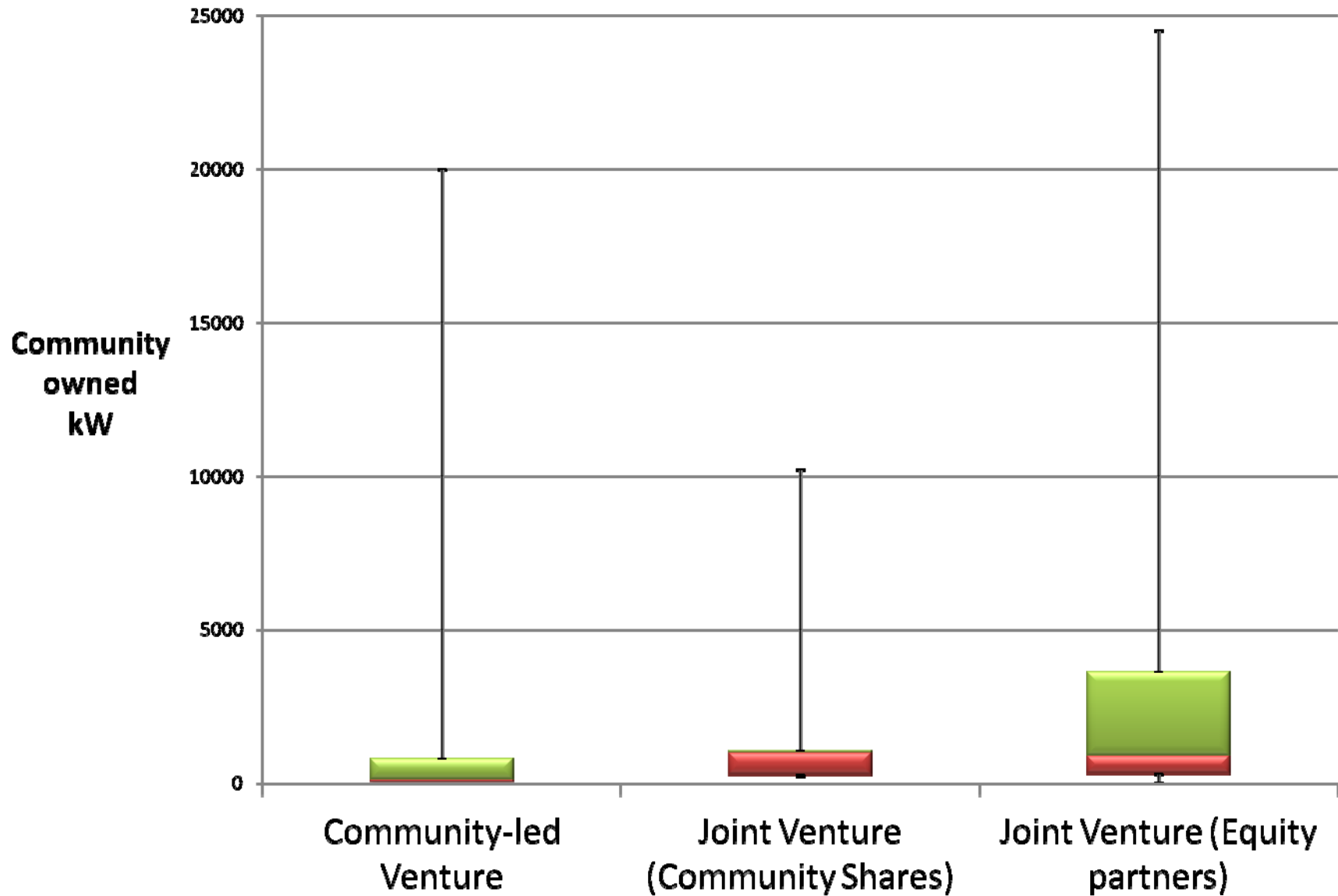
II. Finance

- 2003-2011: Grants for risk stages
- 2011 onwards: seeking alternative sources of risk finance

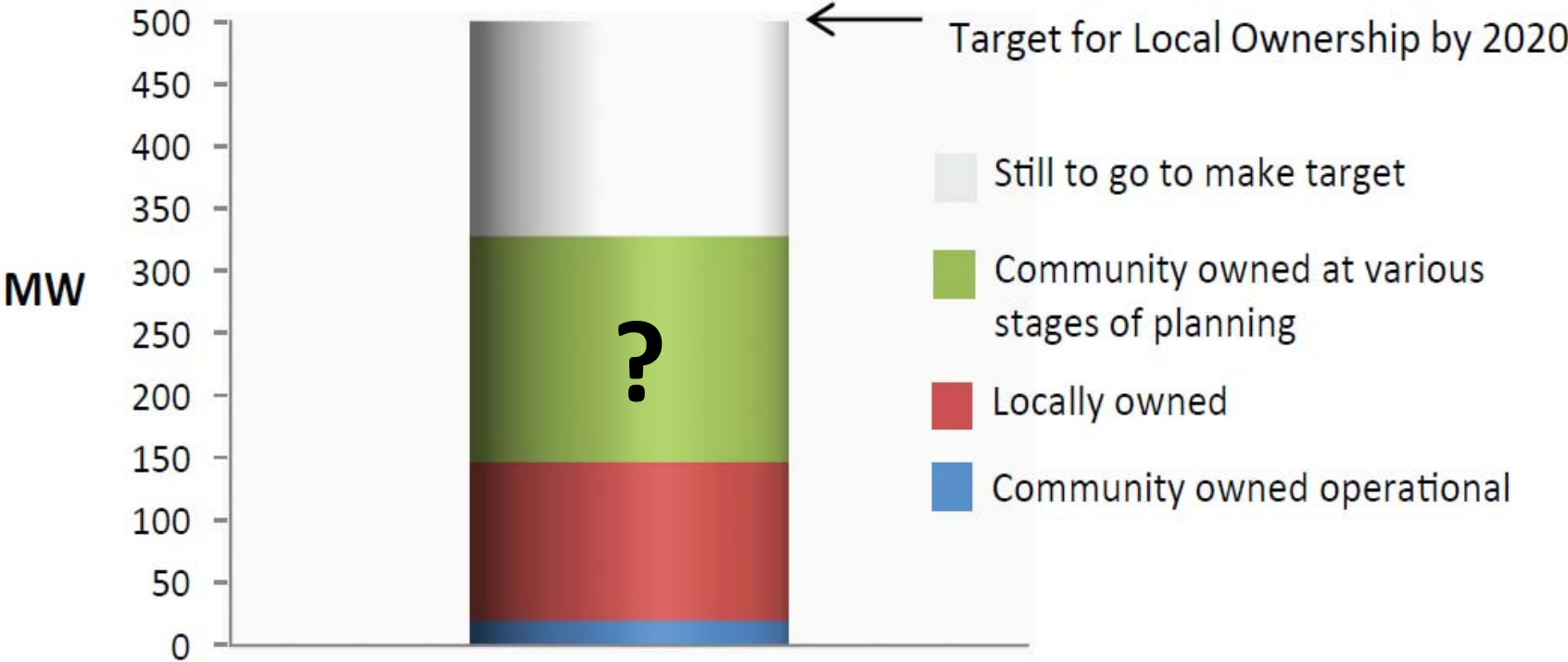
Wind	% cost feasibility	% cost planning	% cost grid connection	% cost electrical infrastructure	% cost technology	% cost preinstallation
Community-led ventures	1.3	3.7	12.0	5.6	57.4	16.8
BWEA figures for typical 5 MW wind farm	1	2	8	8	61	14

Table 1: Cost distribution for community-led wind projects as compared to BWEA figures for commercial 5 MW wind farm.



II. Ownership



III. The road ahead



IV. SCENE Connect




SCENE Home
SCENE Connect home
SCENE Connect search
My Profile
Community Profile
My Contacts
Favourite Projects
Knowledge Exchange
Media
Private Messages

Quick search for installations

Show installations with a matching
 [Switch to advanced search](#)

Results (29)

- ⊕ Huntly Development Trust (Hydro)
- ⊖ Huntly Development Trust (Wind)
 - Community organization name: Huntly Development Trust
 - Project peak capacity: 2500 kW
 - Technology: Wind
 - Region, country: Aberdeenshire Council, Scotland
 - Business Model: Community-led Venture
 - Organization category: Non-profit distributing
 - Public support: Renewables Obligations Certificates



Map data ©2012 Google

Our research

- **Modelling Social, Economic and Political Risks to renewables deployment**
- **Social Impact Renewable Energy Standard**
- **Novel finance mechanisms in community renewable energy**

Thanks for your ears..

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