Community Energy London

Places of Worship Proposal

What We'll Discuss

Why community energy and Places of Worship (PoW) are a good fit.

Examples in London:

SE24, PUNL & Palmers Green Mosque.

Examples outside London:

Brighton Energy.

Challenges of developing community energy projects with PoW.

Potential for community energy on PoW across London.

Criteria

Other project types

Potential steps forward.

Why Community Energy and PoW are a good fit

For Places of Worship (PoW)

Give back for future generations

Lower cost of energy and reduces building's carbon footprint

Potential capacity might already be there

It doesn’t interrupt practice

Help fulfil strategic objectives

Educational Dimension

For Community Groups

Already part of the community

Bring residents together

Broaden conversation on climate change

Potential for larger projects

Examples in London - SE24

Herne Hill United Church

Herne Hill Methodist Church Hall

2016

10kWp each generating around 1,600kWh a year

Around £10,000 for first 2 projects

75 panels (265 watt panels)

2018

25kWp generating around 2000kWh a year

£24,000 capital cost

74 panels (325 watt panels)

Walworth Methodist Church

Examples in London - PUNL

St. Anne's Church

2016

20kWp generating around 1600kWh a year

Around £20,000 capital cost

As of the first week of July 2020...

31 MWh of electricity has been produced

Earning £9,758

Examples in London - Palmers Green Mosque

Not a community energy project

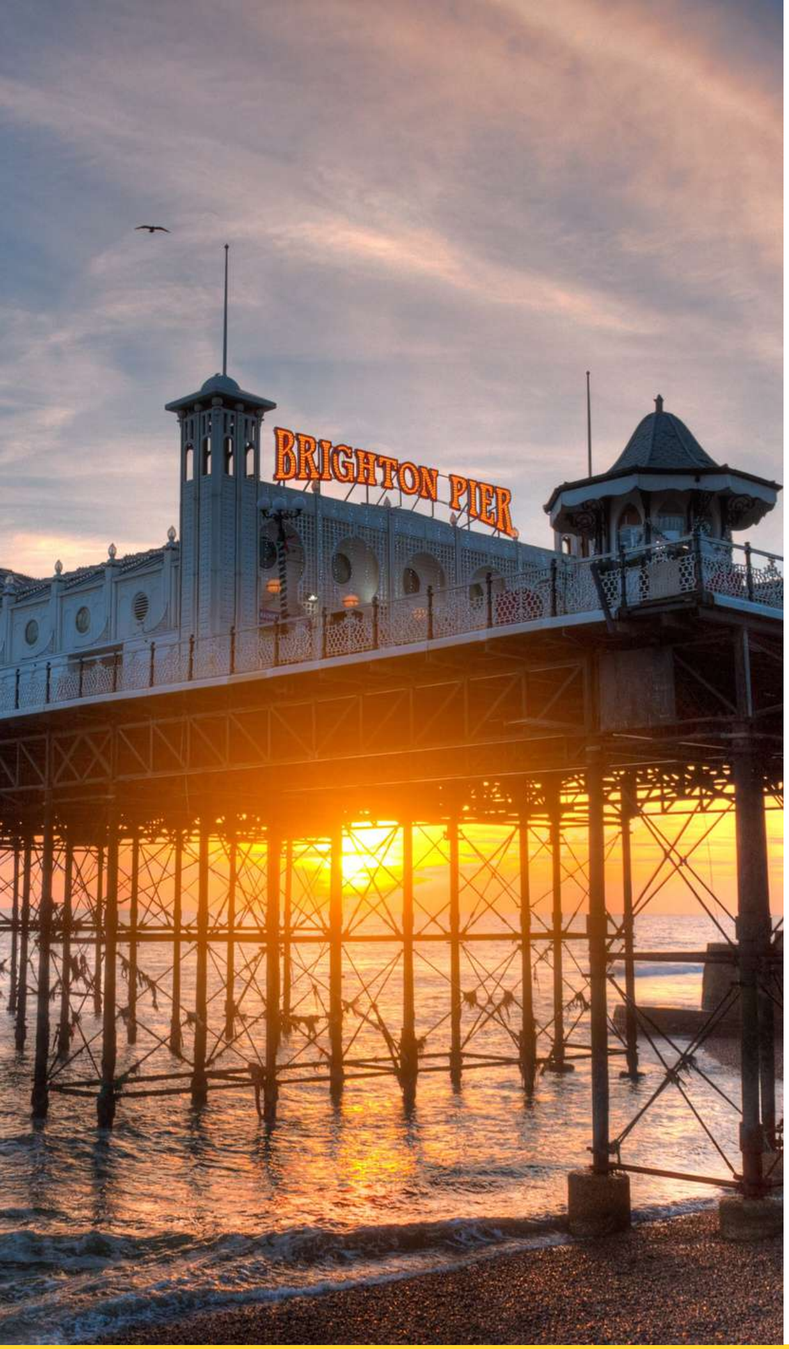
15kWp capacity

Installed 4-5 years ago (installation took couple of months)

Installed around 60 panels

Around £30,000 capital cost (mix of donations and earnings from mosque)

Financial return - not sure because of installation faults



Example outside of London

Brighton Energy - St George's Church

10kWp generating around 800kWh a year

Installed 8 years ago

Gross yield (financial return) was at least 13%

Capital probably paid off by now and will be profitable for another 17 years (signed up to a 25 year FIT)

Damian - "A 10kWp project wouldn't be a worthwhile project now as FiT has ended"

Challenges

Minimum project size needs to be 50kWp+

Need champion and deal with the decision makers

The facilities aren't used regularly. Need 80%+ usage to make it worth it

Better to sell to PoW as export rate is only around 5p

Planning restrictions on certain PoW

PoW might not want to lease it to community groups

Marketing - raising investments

Projects can take between 9 - 18 months to complete

Clarity on ownership of building

Apprehensive, lack of understanding of benefits and process

Need big energy consumer

No FiT

Growing Interest

THE CHURCH OF ENGLAND

General Synod has set new targets for all parts of the church to work to become carbon ‘net zero’ by 2030

More than 3000 churches use new **Energy Footprint Tool** app to become greener

Climate Sunday celebrated in 700 churches

Cambridge Mosque

Europe's first eco-mosque.

Cost £23m to build.

Part of the spend went towards the solar panels and sustainable materials (LED lights, insulation, heat pumps, etc.)

ECO SYNAGOGUE

EcoSynagogue is working in partnership with **The Board of Deputies of British Jews**

Promoting environmental sustainability and engagement across the Jewish Community.

It's a fairly new initiative which they're open to discuss at the end of Sept.

No. of PoW in London

Churches: 1,706

Mosques: 1,500

Synagogues: 181

Hindu Temples: 30

Gurdwaras: 22

Buddhist Temples: 4-10

Criteria

Minimum 50kWp of electricity.

Charge minimum 10-11p per kWh.

Target PoW with 70-80% of electricity use on site.

'Champion' within PoW.

Do capital providers ask for a return?

Other reasons to engage

Other types of interventions include increasing the energy efficiency of a building

Recruit members for your community energy group

Spread the word of community energy - parishioners might lead to other opportunities

Upgrades to boiler / better control / lighting - heat pumps?

Provide information to congregations about low carbon lifestyles they can adopt

Recruit crowdfund investors for your other projects.

Potential steps forward

1

Opportunity for community groups to identify suitable PoW in their area.

For solar projects or other energy projects.

2

Groups get in touch with PoW to gauge interest and develop ‘champion’.

and/or

CEL gets in contact with main authority of all PoW

3

Present the opportunity of community energy to the PoW with the help of ‘champion’: financials, examples and process.

4

Groups support development of projects with PoW

Community Energy London

Thank you