



Lessons from Edinburgh: Funding a 1.4MW Solar PV portfolio across 24 Local Government sites with community shares

Tuesday 18th April

Solar Trade Association

Presenter: Paul Phare









PHOTOVOLTAIC AUSTRIA























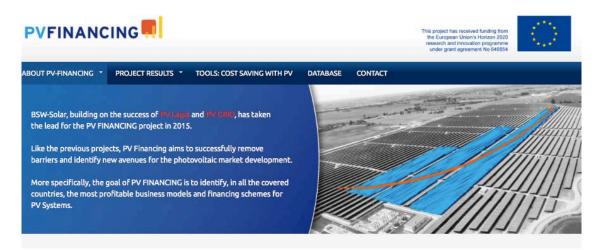








http://www.pv-financing.eu



Welcome to the PV Financing Website!

Overview

BSW-Solar, building on the success of PV LEGAL and PV GRID, has taken the lead for the PV FINANCING project in 2015.

Like the previous projects, PV Financing aims to successfully remove barriers and identify new avenues for the photovoltaic market development.

More specifically, the goal of PV FINANCING is to identify, in all the covered countries, the most profitable business models and financing schemes for PV Systems.

The project covers six European countries (Germany, France, Great Britain, Italy, Austria, Spain) and Turkey. Private investors and decision makers in banks and insurance companies will be introduced to the new business models, allowing them to include these results in their decision process as regards new investments. The project will also assess what political framework for the application of new financing models is required and which barriers slow the PV expansion.

Project Results

European PV Business Model Good

Practices

Summary of the Interview Report on

Financial Schemes

Business Model Reports

act Sheets

Associations & Networks

Vorkshops

Implementation Guidelines

Financing Guidelines

Contract Templates for the development of Business Models

Tweets von @PVFinancing







http://www.pv-financing.eu



United Kingdom

MAKING SOLAR PAY

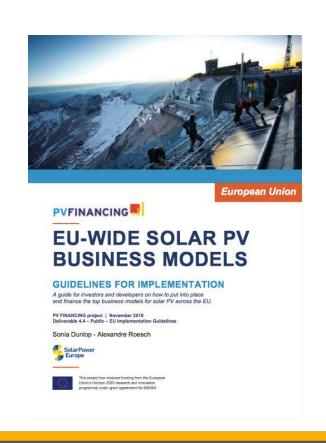
THE FUTURE OF THE SOLAR PPA MARKET IN THE UK NATIONAL IMPLEMENTATION GUIDELINES

PV FINANCING PROJECT DELIVERABLE 4.1 – PUBLIC PUBLISHED IN OCTOBER 2016

Written by the Solar Trade Association



his project has received funcing from the European Union's Horzon 2020 research and Innovation programme under grant agreement No 64655







http://www.pv-financing.eu/webinars/

PV Financing Webinar

How local authorities can fund solar, improve their finances and enable service delivery





James Owen, CEO of Cleantech Consultancy Ltd

Monday 13th March

11:00am - 11:30am

Registration is FREE but mandatory





Send us your questions?

Get involved via Twitter:

#PVfinancing

- @PVFinancing
- @thesolartrade
- @Energy4AllLtd



Lessons from Edinburgh: Funding a 1.4MW Solar PV portfolio across 24 Local Government sites with community shares





Paul Phare

Energy4All - Development Manager
Founding Member of Edinburgh Solar Community Solar Co-op

The Project



Largest community owned PV solar scheme of its kind in the UK

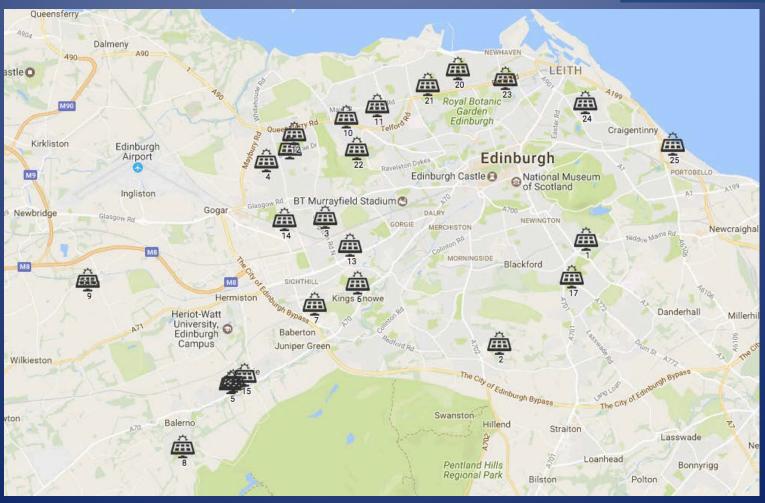
- Over 1GWh pa
- 685 tonnes of CO² per annum

1.4MW on 24 public buildings owned by City of Edinburgh Council

CEC receives fixed price electricity for 20 years then free panels

Location of Buildings









A Community Benefit Society, created to:

- 1. To Develop, Install and Manage Solar installations in Edinburgh
- 2. To reduce carbon emissions in the city, reduce fuel poverty and improve sustainability through education & energy efficiency

Investing members receive a 5% ROI as share interest, increasing with inflation

All surplus profit will be applied to delivering the objectives of the Society

The Society has an asset lock

80% of members are residents of Edinburgh

Founding Members



Richard Dixon (Chair), Chief Executive Friends of the Earth Scotland

Johanna Carrie, Transition Edinburgh Pentlands

Stuart Hay, Living Streets Scotland

David Hawkey, Research Fellow, Edinburgh University

Paul Phare, Development Manager at Energy4All

Douglas Prentice, Co-op & Mutual Finance expert

David Hood, Solar Panel Installer

Pete Roche, Energy Consultant

Cllr Lesley Hinds

Cllr Chas Booth

Cllr Bill Henderson

Development - Stage 1

Meeting with Leader of CEC

• August 2013

Awarded CARES grant -Undertake Feasibility work

• March 2014

ECSC/E4A work at risk to deliver ECSC proposal

May to March













ECEC Winds Up/ECSC registered

• December 2013

E4A won PM contract

• May 2014

Members vote to support proposal

• March 2015

Development – Stage 2

Awarded CARES Loan

•April 2015

Energy4All completed business model & wrote share offer

Raised £1.475m

•November 29 2015











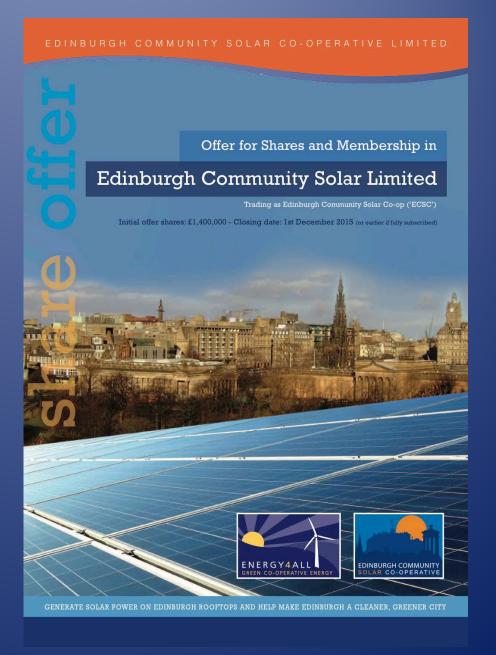
Engaged
Changeworks to
Procure an
Installer/Macroberts
to work on contract

Launched Share Offer

- •September 18 2015
- •FiTs pre-regiatered

Share Offer Document

EIS Tax Relief became important



Development – Stage 3

Preferred supplier nominated

November 2015

Designs submitted for Building Warrant

• March 2016

Last Array Installed before FiT deadline

• September 2016











Contracts negotiated

• March 2016

First Array installed

• May 2016

Community Benefit Fund Projected £1m over 20 years



A significant reduction in the carbon footprint of the building

A display panel for educating building users

Access to a fund, initially for improving energy efficiency of the buildings

Edinburgh Community can access funds

An engaged community that is participating in local energy and helping to deliver a sustainable city

The Future for Edinburgh Solar



Panels on more Council buildings or other buildings in the city?

Continue education projects with schools

Electricity Storage & Demand Side Management projects

Paul Phare

Founding member of Edinburgh Community Solar Co-op

Development Manager - Energy4All

EDINBURGH COMMUNITY SOLAR CO-OPERATIVE

www.edinburghsolar.coop

paul@energy4all.co.uk

0777 570 5374



www.energy4all.co.uk



/edinburghsolar



@ EdinSolarCoop