



Circular business models for the solar power industry

Fact Sheet

Project Information

CIRCUSOL

Grant agreement ID: 776680

[Project website](#)



DOI

[10.3030/776680](https://doi.org/10.3030/776680)

Project closed

EC signature date

4 May 2018

Start date

1 June 2018

End date

30 November 2022

Funded under

SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials

Total cost

€ 8 248 614,25

EU contribution

€ 7 014 892,76

Coordinated by

VLAAMSE INSTELLING VOOR
TECHNOLOGISCH ONDERZOEK
N.V.



Belgium

Objective

Solar power generates nearly 4% (and still growing) of Europe's electricity demand. In 2021, the 200 GW of capacity installed in Europe will result in saving of 219 million CO2 tons/year. By 2030, 8 mill tons of PV panels are expected.

Resource efficiency is a critical success factor for the solar power sustainable growth. Performance-based, third-party ownership Product-Service System (PSS) has been widely seen as a key circular economic model to stimulate resource efficiency and

reduce waste generation. CIRCUSOL aims to establish solar power as a spearhead sector to demonstrate a path driven by PSS business models towards a circular economy in Europe.

Through a co-creative approach with end-users and the entire value chain, CIRCUSOL will develop two main blocks of a circular PSS model: circular product management with re-use/refurbish/remanufacture (“second-life”) paths in addition to recycling, and value-added new product-services for residential, commercial and utility end-users. Five large-scale, real-life demonstrators will be set up in these 3 market segments, in 3 European countries (FR, BE and CH) to validate market acceptance, business viability and resource efficiency benefits.

CIRCUSOL will deliver tangible innovation for the solar power industry with market-validated PSS business models, 2nd-life PV/battery labelling/certification protocols and cost/application analysis, and an info-sharing ICT platform. The results will be exploited in FR, BE and CH and prepared for replication in Europe (Letters of Support of stakeholders attached). CIRCUSOL will also deliver verified circular business innovation methodologies for broader use by other industries, sustainability professionals and academia; plus evidence-based knowledge in circular economy implementation for policy makers. All together, CIRCUSOL will contribute to a more resource efficient Europe, while reducing GHG emissions and creating new business opportunities and jobs.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [waste management](#) > [waste treatment processes](#) > **[recycling](#)**

[social sciences](#) > [social geography](#) > [transport](#) > **[electric vehicles](#)**

[social sciences](#) > [economics and business](#) > [business and management](#) > **[business models](#)**

[social sciences](#) > [economics and business](#) > [economics](#) > **[sustainable economy](#)**

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > [renewable energy](#) > [solar energy](#) > **[photovoltaic](#)**



Keywords

[Circular economy](#)

[business model](#)

[large-scale demonstrator](#)

[product-service systems](#)

[resource efficiency](#)

[solar power](#)

[photovoltaic](#)

[battery](#)

[innovation methodology](#)

[second-life products](#)

[co-creation](#)

Programme(s)

[H2020-EU.3.5. - SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials](#)

MAIN PROGRAMME

[H2020-EU.3.5.4. - Enabling the transition towards a green economy and society through eco-innovation](#)

Topic(s)

[CIRC-01-2016-2017 - Systemic, eco-innovative approaches for the circular economy: large-scale demonstration projects](#)

Call for proposal

[H2020-IND-CE-2016-17](#)

[See other projects for this call](#)

Sub call

H2020-CIRC-2017TwoStage

Funding Scheme

[IA - Innovation action](#)

Coordinator



VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.

Net EU contribution

€ 1 413 683,00

Total cost

€ 1 413 683,00

Address

BOERETANG 200

2400 Mol

 **Belgium** 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Turnhout

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (17)



LUNDS UNIVERSITET

 **Sweden**

Net EU contribution

€ 505 221,25

Address

**Paradisgatan 5c
22100 Lund** 

Region

Södra Sverige > Sydsverige > Skåne län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 505 221,25



BERNER FACHHOCHSCHULE

 **Switzerland**

Net EU contribution

€ 748 650,00

Address

FALKENPLATZ 24

3012 Bern 

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 748 650,00



INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM

 Belgium

Net EU contribution

€ 602 002,50

Address

KAPELDREEF 75

3001 Leuven 

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 602 002,50



UAB SOLI TEK R&D

 Lithuania

Net EU contribution

€ 186 900,00

Address

MOKSLININKU G. 6A

LT-08412 Vilnius 

SME 

Yes

Region

Lietuva > Sostinės regionas > Vilniaus apskritis

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 267 000,00



SOCIETE NOUVELLE D'AFFINAGE DES METAUX-SNAM SAS

 France

Net EU contribution

€ 406 742,00

Address

AVENUE JEAN JAURES

12110 Viviez 

Region

Occitanie > Midi-Pyrénées > Aveyron

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 581 060,00



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

 France

Net EU contribution

€ 666 902,50

Address

RUE LEBLANC 25
75015 PARIS 15 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 666 902,50



ECOPOWER

 Belgium

Net EU contribution

€ 458 372,25

Address

POSTHOFLEI 3/3
2600 ANTWERPEN 

SME 

Yes

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 654 817,50



PV CYCLE

 Belgium

Net EU contribution

€ 199 750,00

Address

BOULEVARD BRAND WHITLOCK 114/5

1200 Bruxelles / Brussel 

SME 

Yes

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 199 750,00



BKW ENERGIE AG

 Switzerland

Net EU contribution

€ 105 875,00

Address

Viktoriaplatz 2

3013 Bern 

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 151 250,00



FUTECH

Belgium

Net EU contribution

€ 1 027 320,88

Address

AMBACHTSSTRAAT 19/2124
3980 Tessenderlo

SME

Yes

Region

Vlaams Gewest > Prov. Limburg (BE) > Arr. Hasselt

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 1 467 601,25



SOREA SOCIETE DES REGIES DE L'ARC

France

Net EU contribution

€ 17 008,25

Address

6 RUE PORTE MARTEL ZA DU PRE DE PAQUES
73870 Saint Julien Mont Denis 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Savoie

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 24 297,50



DAIDALOS PEUTZ BOUWFYSISCH INGENIEURSBUREAU

 Belgium

Net EU contribution

€ 119 255,50

Address

VITAL DECOSTERSTRAAT 67A BUS 0001
3000 Leuven 

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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[HORIZON collaboration network](#) 

Total cost

€ 170 365,00



ZABALA INNOVATION CONSULTING SA

 Spain

Net EU contribution

€ 142 712,50

Address

PASEO SANTXIKI 3 BIS

31192 Mutilva Alta Navarra 

SME 

Yes

Region

Noreste > Comunidad Foral de Navarra > Navarra

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 454 687,50

 **THIRD-PARTY** 

ZABALA BRUSSELS

 Belgium

Net EU contribution

€ 175 568,75

Address

RUE BELLIARD 20

1040 Bruxelles / Brussel 

SME 

Yes

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 250 812,50



LOSER CHEMIE GMBH

Germany

Net EU contribution
€ 25 151,00

Address
ALFRED LANGE STRASSE 18
09599 Freiberg

SME
Yes

Region
Sachsen > Chemnitz > Mittelsachsen

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
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[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 35 930,00



SUNCRAFTER GMBH

Germany

Net EU contribution
€ 175 928,38

Address
NORDHAUSER STRASSE 31
10589 Berlin

SME
Yes

Region

Berlin > Berlin > Berlin

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 251 326,25



LUXCHEMTECH GMBH

 Germany

Net EU contribution

€ 37 849,00

Address

ALFRED LANGE STRASSE 18

09599 Freiberg 

SME 

Yes

Region

Sachsen > Chemnitz > Mittelsachsen

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 54 070,00

Last update: 2 April 2024

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