



Positive City ExChange

Fact Sheet

Project Information

CityxChange

Grant agreement ID: 824260

[Project website](#)

DOI

[10.3030/824260](https://doi.org/10.3030/824260)

Project closed

EC signature date

19 November 2018

Start date

1 November 2018

End date

31 October 2023

Funded under

SOCIETAL CHALLENGES - Secure, clean and efficient energy

Total cost

€ 23 939 383,50

EU contribution

€ 19 999 996,38

Coordinated by

NORGES TEKNISK-
NATURVITENSKAPELIGE
UNIVERSITET NTNU



Norway

Objective

Trondheim, Limerick, Alba Iulia, Pisek, Sestao, Smolyan and Voru and their industry and research partners are joining forces to co-create the future we want to live in. As aspiring Lighthouse and Follower Cities, respectively, they have detailed out their ambitions into the +CityxChange proposal, which describes a structured approach on how to develop and deploy Positive Energy Blocks and Districts and scale these out as part of the Clean Energy Transition.

The approach combines: Prototyping the Future through Integrated Planning and Design; Enabling the Future through Creation of a Common Energy Market; and Accelerating the Future through CommunityxChange with all stakeholders of the city.

New forms of integrated spatial, social, political, economic, regulatory, legal, and technological innovations will deliver citizen observatories, innovation playgrounds, regulatory sandboxes, and Bold City Visions to engage civil society, local authorities, industry, and RTOs to scale up from PEBs to PEBs to Positive Energy Cities, supported by a distributed and modular energy system architecture that goes beyond nZEB.

On top of this, the consortium will create a new energy market design coupled to consumer-driven innovation, developed in close working cooperation with national regulators, DSOs/CSOs, property developers, and local energy communities. Flexibility will be put at the core of the distributed energy system by creating new micro-grid operation, prosumer-driven Community System Operators, and new markets for peak shaving/RES trading to reduce grid investment needs and curtailment.

Their aim is to realize Europe-wide deployment of Positive Energy Districts by 2050 and prepare the way for fully Positive Energy Cities.

Fields of science (EuroSciVoc)

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

[social sciences](#) > [political sciences](#) > [political policies](#) > **[civil society](#)**

[engineering and technology](#) > [civil engineering](#) > [architecture engineering](#) > [sustainable architecture](#) > **[sustainable building](#)**



Keywords

[Positive Energy Districts](#)

[Smart Cities](#)

[Energy Market](#)

[Energy Transition](#)

[eMaaS](#)

[Community Engagement](#)

Programme(s)

[H2020-EU.3.3. - SOCIETAL CHALLENGES - Secure, clean and efficient energy](#)

MAIN PROGRAMME

[H2020-EU.3.3.1.3. - Foster European Smart cities and Communities](#)

Topic(s)

Call for proposal

[H2020-LC-SC3-2018-2019-2020](#) 

[See other projects for this call](#)

Sub call

H2020-LC-SC3-2018-ES-SCC

Funding Scheme

[IA - Innovation action](#)

Coordinator



NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU

Net EU contribution

€ 2 710 437,29

Total cost

€ 2 710 437,50

Address

HOGSKOLERINGEN 1

7491 Trondheim

 **Norway** 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (35)



LIMERICK CITY AND COUNTY COUNCIL

 Ireland

Net EU contribution

€ 1 984 937,50

Address

MERCHANTS QUAY

V94 Limerick 

Region

Ireland > Southern > Mid-West

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 1 984 937,50



TRONDHEIM KOMMUNE

 Norway

Net EU contribution

€ 2 065 531,25

Address

MUNKEGATA 1

7004 Trondheim 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 2 065 531,25



MUNICIPALITY OF ALBA IULIA

 Romania

Net EU contribution

€ 411 500,00

Address

CALEA MOTILOR 5 A
510134 Alba Iulia 

Region

Macroregiunea Unu > Centru > Alba

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 411 500,00



MESTO PISEK

 Czechia

Net EU contribution

€ 422 500,00

Address

VELKE NAMESTI 114
397 01 Pisek 

Region

Česko > Jihozápad > Jihočeský kraj

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 422 500,00



SESTAO BERRI 2010 SOCIEDAD ANONIMA

 Spain

Net EU contribution

€ 340 301,50

Address

PLAZA DE LOS TRES CONCEJOS 1 BAJO ENTRADA POR TXABARRI 16
48910 Sestao 

Region

Noreste > País Vasco > Bizkaia

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

€ 486 145,00



OBSHTINA SMOLYAN

 Bulgaria

Net EU contribution

€ 328 625,00

Address

BOULEVARD BULGARIA 12
4700 Smolyan 

Region

Югозападна и Южна централна България > Южен централен > Смолян

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 328 625,00



VORU LINNAVALITSUS

 Estonia

Net EU contribution

€ 328 625,00

Address

JURI 11
65620 Voru 

Region

Eesti > Eesti > Lõuna-Eesti

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 328 625,00



IES R&D

 Ireland

Net EU contribution

€ 484 881,25

Address

CASTLEFORBES HOUSE, CASTLEFORBES ROAD
Dublin 1 

SME ⓘ
Yes

Region
Ireland > Eastern and Midland > Dublin

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
€ 803 187,50

 THIRD-PARTY ⓘ

INTEGRATED ENVIRONMENTAL SOLUTIONS LIMITED

 United Kingdom
Net EU contribution
€ 77 350,00

Address
KELVIN CAMPUS WEST OF SCOTLAND SCIENCE PARK HELIX BUILDING
G20 0SP Glasgow 

SME ⓘ
Yes

Region
Scotland > West Central Scotland > Glasgow City

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
No data



VOLUE TECHNOLOGY AS

 Norway

Net EU contribution

€ 1 100 456,00

Address

HOLTERMANN'S VEG 7
7030 TRONDHEIM 

Region

Norge > Trøndelag > Trøndelag

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

€ 1 572 080,00



ENERGY AGENCY OF PLOVDIV ASSOCIATION

 Bulgaria

Net EU contribution

€ 387 937,50

Address

GLADSTONE STREET 15
4000 Plovdiv 

Region

Югозападна и Южна централна България > Южен централен > Пловдив

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 387 937,50



UNIVERSITY OF LIMERICK

 Ireland

Net EU contribution

€ 789 812,50

Address

NATIONAL TECHNOLOGICAL PARK, PLASSEY

- Limerick 

Region

Ireland > Southern > Mid-West

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 789 812,50



FUTURE ANALYTICS CONSULTING LIMITED 

 Ireland

Net EU contribution

€ 261 053,63

Address

FITZWILLIAM SQUARE 23

D02 RV08 Dublin 

SME 

Yes

Region

Ireland > Eastern and Midland > Dublin

Activity type

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

Links

[Contact the organisation](#) 

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

Total cost
€ 372 933,75



R2M SOLUTION SRL

 Italy
Net EU contribution
€ 237 956,25

Address
VIA FRATELLI CUZIO 42
27100 Pavia 

SME 
Yes

Region
Nord-Ovest > Lombardia > Pavia

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
€ 339 937,50



STICHTING INSTITUTE FOR URBAN EXCELLENCE

 Netherlands
Net EU contribution
€ 588 562,50

Address
WALDORPSTRAAT 17
2521 CA The Hague 

Activity type
Research Organisations

Links

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

Total cost
€ 588 562,50



TRONDERENERGI AS

Norway

Net EU contribution
€ 756 581,00

Address
KLAEBUVEIEN 118
7031 Trondheim

Region
Norge > Trøndelag > Trøndelag

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
€ 1 080 830,00



ABB AS

Norway

Net EU contribution
€ 531 868,75

Address
BERGERVEIEN 12
1396 Billingstad

Region
Norge > Oslo og Viken > Viken

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

€ 759 812,50



ATB AS

Norway

Net EU contribution

€ 77 743,75

Address

PRINSENS GATE 39
7012 Trondheim

Region

Norge > Trøndelag > Trøndelag

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

€ 111 062,50



RAC NORWAY AS

Norway

Net EU contribution

€ 245 366,45

Address

DRENGSRUDBEKKEN 12
1371 Asker

Region

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

€ 350 523,50



STATKRAFT VARME AS

 Norway

Net EU contribution

€ 588 618,63

Address

SLUPPENVEGEN 17B
7037 Trondheim 

Region

Norge > Trøndelag > Trøndelag

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

€ 840 883,75



ESB INNOVATION ROI LIMITED

 Ireland

Net EU contribution

€ 110 293,75

Address

TWO GATEWAY EAST WALL ROAD
DA3A995 Dublin 

Region
Ireland > Eastern and Midland > Dublin

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
€ 157 562,50



ESB NETWORKS LTD

 Ireland
Net EU contribution
€ 247 738,75

Address
**LOWER MOUNT STREET CLANWILLIAM PLACE CLANWILLIAM HOUSE
2 Dublin** 

Region
Ireland > Eastern and Midland > Dublin

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
€ 353 912,50



OVE ARUP & PARTNERS SA

 Spain
Net EU contribution

€ 94 319,75

Address

CALLE ALCALA 54

28014 Madrid 

SME 

Yes

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

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

€ 134 742,50



FOURC AS

 Norway

Net EU contribution

€ 699 552,88

Address

Vestre Rosten 81

NO-7075 Tiller 

SME 

Yes

Region

Norge > Trøndelag > Trøndelag

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

€ 999 361,25



R. KJELDSBERG AS

Norway

Net EU contribution

€ 387 292,50

Address

SLUPPENVEGEN 17B
7037 Trondheim

Region

Norge > Trøndelag > Trøndelag

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

€ 553 275,00



SMART M POWER COMPANY LIMITED

Ireland

Net EU contribution

€ 919 493,75

Address

CHARLEVILLE CASTLE
R35 RP77 Tullamore

SME

Yes

Region

Ireland > Eastern and Midland > Midland

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
€ 1 313 562,50



SPACE ENGAGERS COMPANY LIMITED BY GUARANTEE

Ireland
Net EU contribution
€ 319 187,50

Address
**103 VILLA PARK GARDENS, NAVAN ROAD
D07Y8N5 Dublin**

SME
Yes

Region
Ireland > Eastern and Midland > Dublin

Activity type
Other

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

Total cost
€ 319 187,50



COLABORATIVA SL

Spain
Net EU contribution
€ 235 681,25

Address
**AVDA 28 FEBRERO 46 1C
14007 Cordoba**

SME

Yes

Region

Sur > Andalucía > Córdoba

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

€ 336 687,50



OFFICINAE VERDI GROUP SRL

Italy

Net EU contribution

€ 404 556,25

Address

VIA TIRSO 14
00198 Roma



Region

Centro (IT) > Lazio > Roma

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

€ 577 937,50



IOTA STIFTUNG

Germany

Net EU contribution

€ 470 437,50

Address

PAPPELALLEE 78 79
10437 Berlin 

Region

Berlin > Berlin > Berlin

Activity type

Other

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 470 437,50



NHP EIENDOM AS

 Norway

Net EU contribution

€ 141 618,75

Address

KJOPMANNSGATA 37
7011 Trondheim 

Region

Norge > Trøndelag > Trøndelag

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

€ 202 312,50



GKINETIC ENERGY LIMITED

 Ireland

Net EU contribution

€ 751 217,25

Address

**38 KILLELINE HEIGHTS NEWCASTLE WEST
V42FW61 Limerick** 

SME 

Yes

Region

Ireland > Southern > Mid-West

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

€ 1 073 167,50



GOCAR CARSHARING LIMITED

 Ireland

Net EU contribution

€ 134 146,25

Address

**35 NORTHWOOD COURT NORTHWOOD CRESENT NORTHWOOD BUSINESS CENTRE
D09 F1P0 SANTRY DUBLIN** 

SME 

Yes

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

€ 191 637,50



KPMG

 Ireland

Net EU contribution

€ 182 772,63

Address

1 STOKES PLACE - ST STEPHENS GREEN

D02DE03 Dublin 

Region

Ireland > Eastern and Midland > Dublin

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

€ 261 103,75



ANEO AS

 Norway

Net EU contribution

€ 181 041,87

Address

KLAEBUVEIEN 118

7031 TRONDHEIM 

Region

Norge > Trøndelag > Trøndelag

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

€ 258 631,25

Last update: 20 November 2024

Permalink: <https://cordis.europa.eu/project/id/824260>

European Union, 2025