

A scalable and sustainable grid-scale energy storage system utilising 3rd generation flywheel technology for effective integration of renewable energy.

HORIZON
2020

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Fact Sheet

Project Information

Teraloop EES

Grant agreement ID: 858355

[Project website](#) 

DOI

[10.3030/858355](https://doi.org/10.3030/858355) 

Project closed

EC signature date

12 April 2019

Start date

1 May 2019

End date

31 October 2021

Funded under

INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost

€ 3 465 625,00

EU contribution

€ 2 425 937,50

Coordinated by

TERALOOP OY



Finland

Project description

New tools to meet energy transition needs

Growth does not need to cause environmental pollution. There is a way to store energy that can meet the needs of the population, and provides a zero-waste solution. The EU-funded Teraloop EES project has the solution: a grid-scale energy

storage system that can sustainably service niche markets difficult to address for current technologies. Drawing upon proven technologies (flywheel energy storage, magnetic levitation and brushless motors), this highly scalable, kinetic energy storage system can innovatively configure for grid-scaled storage with minimal visual and environmental footprint. For instance, its rotor is hubless and made of lightweight, strong and recyclable carbon fibre composites, and it allows for five times higher energy storage capacity.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > [renewable energy](#)
[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electrical engineering](#) > [power engineering](#) > [electric power distribution](#)



Programme(s)

[H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

MAIN PROGRAMME

[H2020-EU.3. - PRIORITY 'Societal challenges](#)

[H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

Topic(s)

[EIC-SMEInst-2018-2020 - SME instrument](#)

Call for proposal

[H2020-EIC-SMEInst-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-SMEInst-2018-2020-2

Funding Scheme

Coordinator



TERALOOP OY

Net EU contribution

€ 2 425 937,50

Total cost

€ 3 465 625,00

Address

VAISALANTIE 2

02130 ESPOO

+ Finland

SME

Yes

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

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](#)

Last update: 20 April 2022

Permalink: <https://cordis.europa.eu/project/id/858355>

European Union, 2025