

OUTPUT FACT SHEET

Pilot actions (including investment, if applicable)

Version 3

Project index number and acronym	CE1444 InterGreen-Nodes
Output number and title	Output O.T3.2 “Highly visible and practical development and demonstration of technical solutions” for Deliverable D.T3.2.5: Solar Energy Demosntrator in Berlin
Investment number and title (if applicable)	N/A
Responsible partner (PP name and number)	PP4 BEHALA
Project website	https://www.interreg-central.eu/Content.Node/InterGreen-Nodes.html
Delivery date	30.06.2022

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature, demonstration character and transnational added value

Challenge: Using available spaces (rooftops etc.) in ports and other transshipment facilities to produce green energy.

EnTerra Solar Holding GmbH has installed two photovoltaic systems with a total output of 268 kWp on the roofs of BEHALA. The entire system produces 253 MWh of clean electricity per year. This saves around 224 tons of carbon dioxide. The electricity generated by the systems can supply up to 60 four-person households. Both companies thus make a valuable contribution to environmental and climate protection.

Transnational value: As all pilot actions in the project, the demonstrator is easily transferable to any city with a transshipment point in or close to the city. The transnational value is raised through the common development and discussion of demonstrators, allowing ports in other countries to easily adapt the demonstrator.

Demonstration character: Demonstration of implementation and operation for uptake by other operators.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

DE300, Berlin

Investment costs (EUR), if applicable

N/A

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

The total of 604 polycrystalline modules with an output of 127 kWp generate around 114 MWh of electricity per year and in this way save 74 t of carbon dioxide. The electricity generated is fed into the power grid and remunerated accordingly.

Benefactors: Cities and their citizens, as well as logistics operators who are being enabled to reduce their CO2 footprint.

No uptake on an institutional level, but not expected due to character of the project. An uptake at policy or institutional level is not applicable for this demonstrator.

The demonstrator is already full scale, but uptake through other ports is possible and that could leverage additional funds.

Sustainability of the pilot action results and transferability to other territories and stakeholders

The demonstrator will stay in operation after the projects end.

The demonstrator is easily transferable to any city with a transshipment point in or close to the city. Any other operator of real estate can adapt this demonstrator and benefit from the CO2 savings it provides.

A detailed report on the lessons learned is available and could be downloaded from:

[https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-InterGreen-DT3.2.5-Report-\(2022-06-16\).pdf](https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-InterGreen-DT3.2.5-Report-(2022-06-16).pdf)

If applicable, contribution to/ compliance with:

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

All national regulatory requirements on installing and operating solar energy systems have been met. The total of 604 polycrystalline modules with an output of 127 kWp generate around 114 MWh of electricity per year and in this way save 74 t of carbon dioxide. The electricity generated is fed into the power grid and remunerated accordingly.

There is no risk of negative environmental effects, so no mitigation measures have been introduced. "Sustainable Development" is the only horizontal principle integrated into the demonstrator.

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links
If applicable, additional documentation, pictures or images to be provided as annex

Demonstrator has been reported as Deliverable D.T3.2.5: Solar Energy System

Report:

[https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-InterGreen-DT3.2.5-Report-\(2022-06-16\).pdf](https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-InterGreen-DT3.2.5-Report-(2022-06-16).pdf)

Handbook Part 2 Energy Systems:

<https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-D.T3.3.3-Part2-Energy-systems.pdf>