Water Saving for Solar Concentrated Power

Fact Sheet

Project Information

WASCOP
Grant agreement ID: 654479
Project website

Funded under
H2020-EU.3.3.2.4.
H2020-EU.3.3.2.2.
H2020-EU.3.3.2.1.

Start date
1 January 2016
End date
31 December 2019
Overall budget
€ 5,941 607,50
EU contribution
€ 5,941 607,50

Coordinated by
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
France

This project is featured in...

RESULTS PACK
Solar Heat for Power and Industry: Shedding some light on innovations in CSP
19 August 2020
Objective

Concentrating Solar Power is one of the most promising and sustainable renewable energy and is positioned to play a massive role in the future global generation mix, alongside wind, hydro and solar photovoltaic technologies. Although there is definitely perspective for the technology for rapid grow, success of CSP will ultimately rely on the ability to overcome obstacles that prevent its mass adoption, especially the large financial demand and limited accessibility of water. Water saving is therefore one of the major issues to ensure a financially competitive position of CSP plants and their sustainable implementation.

To overcome such challenges, WASCOP brings together leading EU and Moroccan Institutions, Universities, and commercial SMEs and industry. They join their forces to develop a revolutionary innovation in water management of CSP plants - flexible integrated solution comprising different innovative technologies and optimized strategies for the cooling of the power-block and the cleaning of the solar field optical surfaces.

WASCOP main advantage consists in the ability to reflect and adapt to the specific conditions prevailing at individual CSP plants, unlike other competitive approaches proposing a single generic solution applicable only on some referenced cases. The WASCOP holistic solution provides an effective combination of technologies allowing a significant reduction in water consumption (up to 70% - 90%) and a significant improvement in the water management of CSP plants.

To demonstrate the benefits (whether economic or environmental), the developed system will be tested and validated in real conditions of four testing sites in France, Spain and Morocco after preliminary demonstration in laboratory environment.

Field of science

/socsci/economics_and_business/economics/sustainable_economy
/eng_and_technology/environmental_engineering/water_management
/eng_and_technology/environmental_engineering/energy_and_fuels/renewable_energy

Programme(s)

Topic(s)

Call for proposal

H2020-LCE-2015-1-two-stage
Funding Scheme
RIA - Research and Innovation action

Coordinator

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Address
Rue Leblanc 25
75015 Paris 15
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Activity type
Research Organisations
EU contribution
€ 1 124 602

Participants (10)

DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV
Germany
EU contribution
€ 747 033,03
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Linder Hohe
51147 Koln
Website Contact the organisation
Activity type
Research Organisations

CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT
Spain
EU contribution
€ 744 530,36
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Avenida Complutense 40
28040 Madrid
Website Contact the organisation
Activity type
Research Organisations

CRANFIELD UNIVERSITY
United Kingdom
EU contribution
€ 797 782,75
Address
Website Contact the organisation
Activity type
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