

I will participate as a prospective project leader
Short description of organisation:
<p>The Energy Agency of Extremadura (AGENEX) is a public entity, set up by regional and local entities of governmental and training nature, created in 2001 in order to promote the energy source diversification and the energy efficiency in Extremadura.</p> <p>Agenex is the coordinator of the European Sector Alliance in CSP (2015-2018) in order to define the EU Solar Operator Profile, funded by ERASMUS+ with 1,5M€ http://www.solar-cv.eu/. This project links many relevant actors of the CSP sector at European level, and has allowed AGENEX to build a net of expert entities in this area that allow for a pre-identification of obstacles: research institutions (CRES, ENEA), VET providers (EDIC, Renovetec, Sinergie) and sectorial associations (Estela, ANEST, EBHE, Protermosolar)</p>
Main areas of expertise
<p>Agenex has been developing in the last years a wide array of activities, having gathered relevant experience in RES and EE. Anyhow, with respect to CSP, our region Extremadura PV and CSP technologies have been industry leaders between 2006 and 2014 in Spain. Extremadura gathers >40% of Spanish concentrated solar power (CSP) and 30% PV. In this area, AGENEX has consistently helped the Extremadura regional government to implement training actions and to evaluate concrete CSP investment projects.</p> <p>Agenex has coordinated various energy projects: Rehabilitate (Interreg Sudoe), Finerpol (Inter. Europe), Solar-CV (SSA), Greener-Ex (Elena), Agroskill (LLP), AgroGas (Interreg IVB), Euvet (LLP), Promoeener-A (Interreg IVA)</p> <p>Agenex, is promoting initiatives aimed at the improvement of regional and local energy policies. Regionally it has been involved in the planning of the Extremadura Energy Plan 2009-2012, PLAN 2000 (Green procurement and ESCos) and in the Extremadura Energy Plan 2010-2020).</p>
Previous, relevant EU project experience:
<p><u>Project Name: EU Sector Alliance in CSP Operator certification</u> Sector Skill Alliance. Agenex coordinator. From 2016 to 2018. Website: http://www.solar-cv.eu/</p> <p><u>Project Name: Spanish Platform for Promotion of Energy Investment</u> H2020. Agenex partner. From 2016 to 2018 Website: www.enerinvest.es</p> <p><u>Project Name: Greener-Ex</u> ELENA (EIB). Agenex coordinator. 2016-2018 Website: http://www.agroskill.eu/</p> <p><u>Project Name: Innovative Circular Business on Energy and Water</u> LIFE+. Agenex partner. 2016–2020 Website: www.ctaex.com/icirbus</p> <p><u>Project Name: EE and RES in public buildings</u> Interreg IVA. Agenex coordinator. 2012–2014 Website: http://promoeener-a.com/</p> <p><u>Project Name: Financial Instruments for Energy Renovation Policies</u> Interreg Europe. Agenex coordinator. 2016-2018 Website: http://www.interregeurope.eu/finerpol/</p>
Project proposal Acronym/Title: CSP STREAM
Call topics (topic identifier) of interest: LCE-21-2017: Market uptake of renewable

technologies.

Short description of project idea

In order to ensure that the EU meets the 2020 RES targets (20% of EU energy from renewables) and following the importance given to CSP in the Directive 2009/28 (promotion of the use of energy from renewable sources), a stronger boost should be given to the effective implementation of big-scale CSP supply .

For that, the mentioned directive also points out at the fact that MS should be ready to cooperate in a larger scale. The directive introduces optional cooperation mechanisms between Member States which allow them to agree on the extent to which one Member State supports the energy production in another and on the extent to which the energy production from renewable sources should count towards the national overall target of one or the other. These mechanisms have to involve as well local and regional bodies and should link CSP-producing areas to areas where CSP production is not economically feasible.

6 EU countries include CSP technology as target in National Renewable Energy Action Plans to 2020, Spain, Cyprus, Italy, Greece, Portugal and France. Spain is currently leading country in CSP installed power, and Extremadura Region has more than 35% of the total national power. The international market is moving, and in 2012 the European Investment Bank funded 3 new CSP plants in Cyprus, Greece and Italy (Ner300 program) which Italy and Greece started in 2014. However, in spite of the above- mentioned developments, in the case of this reinforced cross-border cooperation, which should ensure the market uptake of CSP; major advances in this area are still far from sight.

This project wants to ensure that CSP production and supply is boosted by means of effectively connecting the producing areas in southern Europe to Central and Northern European countries. A major issue is here addressed: Identify all barriers to this enhanced cooperation and providing options for addressing them in the context of future projects and policy initiatives.

This project wants to build upon the already existing partnership created in the Solar-CV, mostly from southern Europe and with relevant expertise in CSP. In order to allow for a strong proposal, partnership should be reinforced with north and central European partners, especially those with experience in market uptake projects.

Main objectives and how they will be achieved – including work packages

General Objective: Identify all obstacles hampering this enhanced cooperation in the area of european-wide CSP production and consumption, impeding the effective flow from the southern countries to the northern countries. A comprehensive life-cycle analysis will be set, simulating the development of a sistem of data ready to be evaluated.

Specific objectives:

- 1– Identification of technical barriers, life-cycle analysis.
- 2– Identification of economic barriers, life-cycle analysis.
- 3– Identification of institutional and legal barriers, life-cycle analysis.
- 4– Identification of spatial and environmental barriers, life-cycle analysis.
- 5– Provide options to address the obstacles identified for addressing them in future projects and policy initiatives.

6– Creation of a final common EU-wide study on CSP production and supply.

Work packages: **WP1:** Management and coordination **WP2:** Collection of data and experiences. **WP3:** Partial studies on CSP (Life-cycle analysis): Identification of barriers and proposal of practical solutions. **WP4:** CSP-Model System (common methodology for all 4 research fields) **WP5:** Communication and dissemination

Expected impact of the project (see call text)

Increase the share of CSP final consumption in the renewable energy mix by 20% or facilitate that in the future mix. Contribution to market understanding for possible policy and regulatory development.

Environmental and socially important impacts:

Barriers and obstacles that may determine the impact of the project:

- 1– Lack of knowledge from the public administrations, financial entities and companies able to conduct big-scale energy projects.
- 2– Lack of trust among the countries involved in this CSP energy exchange from south to north.
- 3– Lack of coordination among the responsible entities.

Profile of partners sought (cities, regions, consultants, other, geographic location...) and expected role in the proposal:

Specific countries/regions/cities you are keen to collaborate with:

The whole EU area is welcome, specially those partners with concrete experience in Market Uptake projects. More specifically: For CSP-producing countries (Southern Europe): Partners only those partners with experience in Market uptake.

For northern and central European partners: Partners with proven experience in energy transport and Market Uptake projects. Experience in CSP projects is also welcome. Partners with experience in Life-Cycle Analysis are also welcome.

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