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**Flyby's activity in ENDORSE**

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# ENDORSE



# Summary

- Overview of Flyby's activity in WP<sub>4</sub> and 6
- Objectives of service S2: "Design of CSPS"
- Service S2 – distinctive features
- Service S2 – possible markets
- Service S2 – product development
- Service S2 – pre-market service development

# Flyby's activity in WP4 and WP6 - an overview

Domain	Service code and short title	Service title	Prime-user and test area
Solar energy	S2: "Design CSPS"	Design and performances analyses of concentrating solar power systems	Enel Green Power SpA Test area: Sicily (Italy) and Northern Africa.

Work package number	WP402	Type of activity	RTD
Work package title	Product development S2: "Design CSPS"		
Start month	3		
End month	21		

Work package number	WP602	Type of activity	DEM
Work package title	Pre-market service development S2: "Design CSPS"		
Start month	19		
End month	30		

# Objectives of service S2: “Design CSPS”

## Support to investment projects in CSP systems

At the planning stage (*planner service*):

- site assessment;
- CSPA design optimization;
- return on investment assessment.

At the operational stage (*controller service*):

- internet-based, cost-effective and reliable monitoring solution

# Service S2 distinctive features

- **Objective:** response to users' request for a tool supporting site evaluation, advice on components selection and yield monitoring
- **Innovation:** exploitation of the latest improvements to MACC Core Services
- **Added value:** integration of air temperature maps (from WP<sub>3</sub>) in the model of CSPS
- **Impact at large:** contribution to the deployment of active grids

# Service S2 possible markets

## Users:

construction companies, project developers, turn-key system integrators, component manufacturers, engineering utilities, finance investors.

## Geographical areas:

southern Europe, northern Africa, Middle East, Mexico and southwestern USA, parts of India and Pakistan, South Africa, Australia, parts of Brasil and Chile.

# Service S2 - Practical management Product development

Service S2 generates the CSP system model (*product*) which will be:

- designed also according to ENEL GP inputs (WP2);
- based also on MACC Core Services and air temperature maps (from WP3);
- developed using either Matlab or IDL;
- validated using experimental data provided by ENEL GP;
- tested against similar products.

# Service S2 - Practical management

## Pre-market service development

The pre-market service will

- be developed starting from on ENEL GP requirements (WP2)
- take relevant MACC Core Services products as input
- be web-based
- be subject to internal validation
- tested by users (WP5)