SiNGULAR
Smart and Sustainable Insular Electricity Grids Under Large-Scale Renewable Integration

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SMART AND SUSTAINABLE INSULAR ELECTRICITY GRIDS UNDER LARGE-SCALE RENEWABLE INTEGRATION

Encuentro Horizonte 2020. Retos:
Energía y Medio Ambiente

20/02/2014

Javier Contreras Sanz
UCLM

SINGULAR Grant Agreement

- Contract number No. 309048
- Starting date: 1/12/2012
- Duration: 36 months
- Total Budget: 5,259,445 Euro
- EC Funding: 3,615,464 Euro

SINGULAR Partners

- 5 Universities/Polytechnics
- 11 Energy Companies, Utilities and SMEs

SINGULAR Partners

Taken from our website: http://www.singular-fp7.eu/

- Seven European countries: Portugal, Spain, Italy, Switzerland, Greece, Cyprus and Romania

SINGULAR Objectives

- Investigation: effects of large-scale integration of renewable energy sources (RES) and demand side management (DSM) on the planning and operation of insular (non-interconnected) grids
- Emerging issues: grid-connected RES, large scale distributed generation (DG), informed or active consumers with real-time pricing, energy efficiency, demand response, energy storage: Towards a Sm and Sustainable Grid!

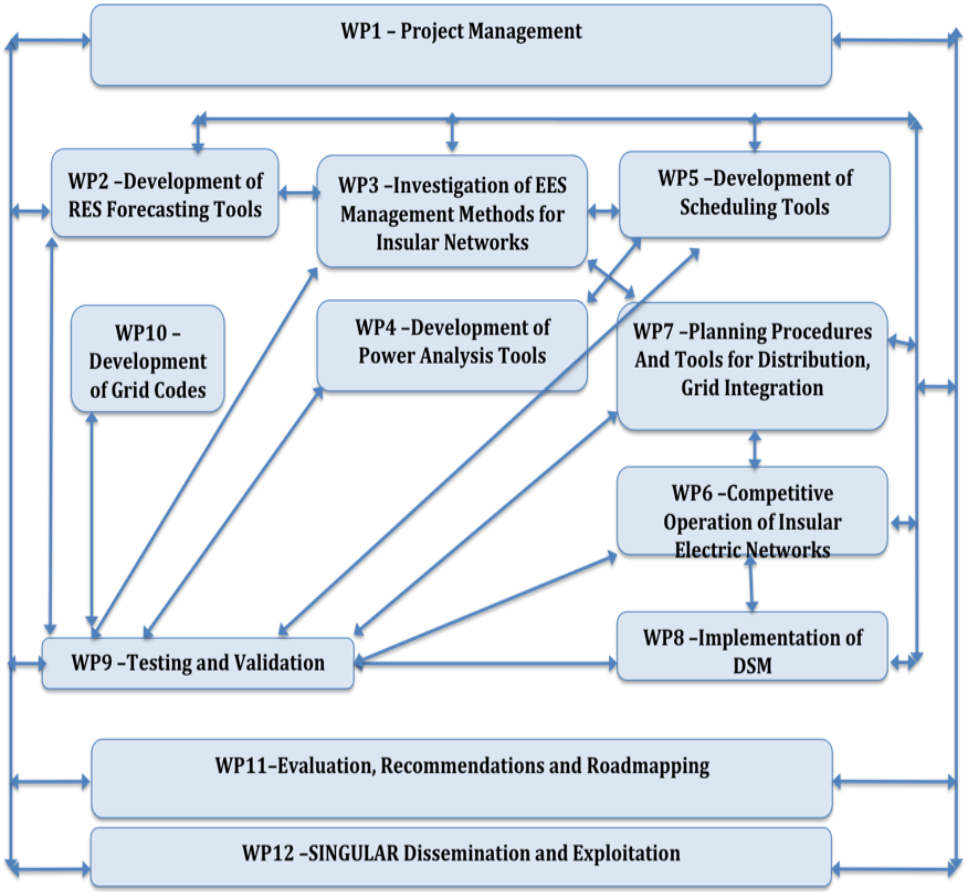
SINGULAR Objectives

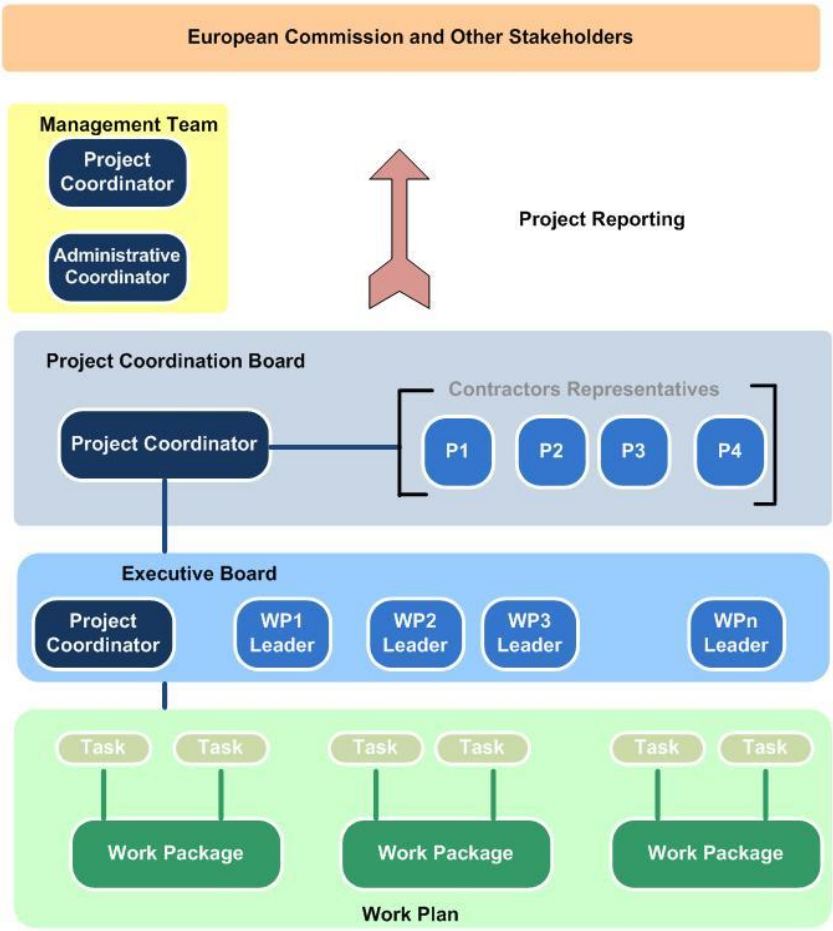
- SINGULAR will provide recommendations, as well, as scalable and replicable solutions, for all regulatory, technical and economic challenges of integrating a very large share of RES in insular electricity grids, while maintaining secure, reliable and high-quality power
- Five Pilot Sites are considered for testing and validation

SINGULAR WPs

WP No	WP Title	Type of activity	Lead Participant	Person-months	Start Date	End Date
1	Project Management	MGT	UBI	29	M1	M36
2	Development of RES Forecasting Tools	RTD	SWARTWATT	133,8	M1	M36
3	Investigation of EES Management Methods for Insular Networks	RTD	ALSTOM	62,53	M1	M12
4	Development of Power Analysis Tools	RTD	POLITO	79,7	M1	M12
5	Development of Scheduling Tools	RTD	AUTH	116,7	M4	M21
6	Competitive Operation of Insular Electric Networks	RTD	UPB	84	M10	M18
7	Planning Procedures And Tools for Distribution Grid Integration	RTD	UCLM	94,70	M10	M24
8	Implementation of DSM	RTD	INTELEN	35,10	M13	M30
9	Testing and Validation	DEM	ITC	100,7	M22	M36
10	Development of Grid Codes	RTD	HEDNO	27	M28	M33
11	Evaluation, Recommendations and Roadmapping	OTH	UBI	17,7		
12	SINGULAR Dissemination and Exploitation	OTH	CS	24,		

SINGULAR Organization





Overview

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Anatomy of a Project Proposal (I)

1. Objectives

- Advancement with respect to state of the art
- Workplan
- Project structure, deliverables and workpackage descriptions

Anatomy of a Project Proposal (II)

2. Implementation

- Management structure and procedures
- Risk management
- Description of the consortium

3. Impact

- Strategic impact
- Society impact
- Dissemination plan

Project Proposal Keys to Success? (I)

- Find a good research topic that has not been explored so far
- Find the right partners both in industry and academia
- Find a *proactive* scientific coordinator
- Be “balanced”: partners, cost, responsibilities
- Write a good and clear abstract that can engage the audience (project reviewers)

Project Proposal Keys to Success? (II)

- Show the applicability of your future project (for industrial use mainly)
- In many proposals, having an industry leader is key to success
- Contact European Commission Officials if possible and/or National Contact Points
- Have a good project manager of the proposal (preferable a consulting firm or individual)
- Try to avoid the *8th passenger*

Project Proposal Keys to Success? (III)

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