



WavEC
Offshore Renewables

**OFFSHORE RENEWABLES
PORTUGAL 2020 FUNDING OPPORTUNITIES**

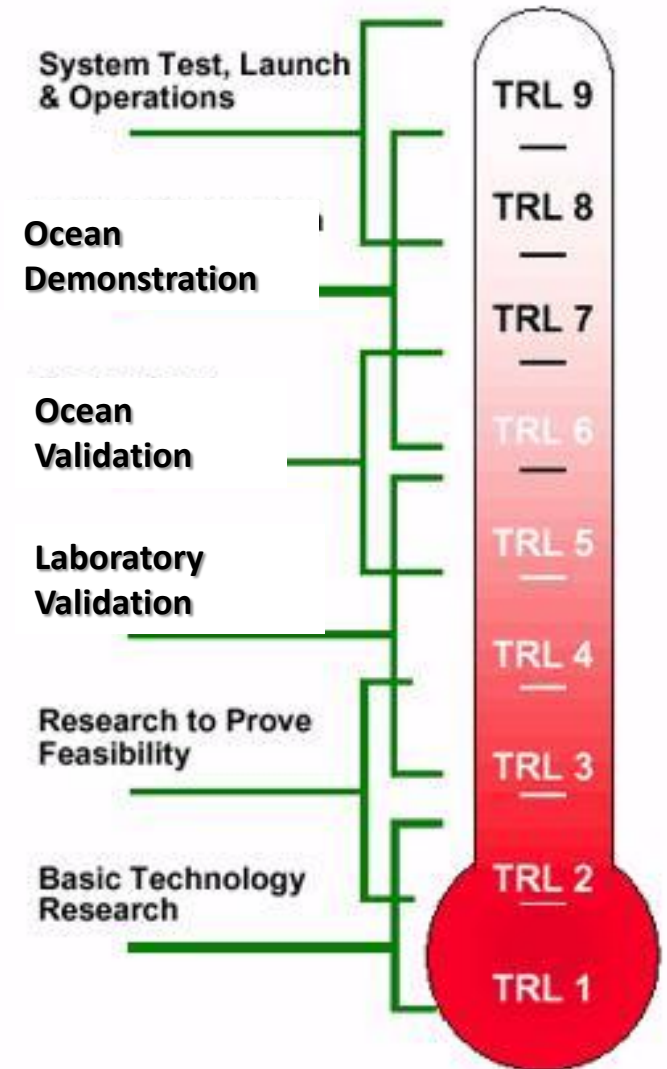
TECHNOLOGY DEVELOPMENT

WAVE

- ✓ Most advanced technologies at ~ TRL 7
- ✓ Several new technologies in intermediate stages of development (TRL 3 to 5)
- ✓ Potential for pre-commercial exploitation (TRL 9) in 4~6 years

WIND

- ✓ Commercial exploitation for fixed foundation solutions
- ✓ Innovative floating technologies in advanced development stages (TRL 8)
 - WindFloat at TRL 9 in 2~3 years



TRL- Technology Readiness Level

MARKET AND STAKEHOLDERS PERCEPTION

- ✓ Capital intensive technologies
- ✓ Perceived as high risk
- ✓ Long time to market

PROJECT FINANCE

- ✓ Feed-in tariffs has little relevance for TRLs < 9
- ✓ Even commercial technologies require non refundable public funds and special interest loans

PUBLIC FUNDS

- ✓ HORIZON 2020, specific calls for Marine Renewable Energy, mainly for TRL > 3
- ✓ PORTUGAL 2020, in general no specific calls for MRE, covers all TRL stages

PORTUGAL2020

GENERAL FRAME FOR PROJECT DEVELOPMENT

➤ THE ECONOMIC, SOCIAL AND TERRITORIAL DEVELOPMENT FUNDING TOOL IN PORTUGAL BETWEEN 2014 AND 2020

➤ PORTUGAL2020'S KEY GOALS

FOSTER GROWTH AND JOB CREATION

- ✓ Promote the production of tradable goods and services
- ✓ Increase exports
- ✓ Transfer outputs from the scientific system to the industry
- ✓ Promote sustainable development via the efficient use of resources
- ✓ Foster territorial cohesion, particularly in low-density cities and areas

➤ SUPPORTS

- ✓ Supply chain development and exportation
- ✓ Development of innovative products and services
- ✓ Creation of qualified employment
- ✓ Exploitation of endogenous resources (including Marine Renewable Energy)

➤ PORTUGAL 2020: 25 BILLION EUROS UNTIL 2020

PORTUGAL2020 PRIORITIES – STRUCTURE AND IMPLEMENTATION

➤ 4 THEMATIC PROGRAMS WITH NATIONAL SCOPE

Competitiveness
and
Internationalization
(PO COMPETE)

Sustainability and
Efficient Use of
Resources
(PO SEUR)

Social Inclusion
and Employment

Human Capital

➤ 7 REGIONAL OPERATIONAL PROGRAMS (POR)

✓ NORTH

✓ CENTRE

✓ LISBON

✓ ALENTEJO

✓ ALGARVE

✓ MADEIRA

✓ AZORES

R. A. Açores

R. A. Madeira

**EACH PROGRAM
SUPPORTS ITS
REGIONAL SMART
SPECIALISATION
STRATEGY**

(RIS3)

Identifies strategic
priorities, in scientific,
technological and
economic areas

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PRIORITIES – STRUCTURE AND IMPLEMENTATION

➤ OPERATIONAL PROGRAMS FOR EUROPEAN TERRITORIAL COOPERATION

➤ ATLANTIC AREA OP; INTERREG OP,...

➤ 1 PROGRAM FOR THE European Maritime and Fisheries Fund: PO MAR2020

➤ **FUNDING TO BE EXPENDED UNTIL 2023**

THEMATIC PROGRAMS

(COMPETE) COMPETITIVENESS AND INTERNATIONALIZATION

(POSEUR) SUSTAINABILITY AND THE EFFICIENT USE OF RESOURCES

REGIONAL PROGRAMS

PO NORTE

PO CENTRO

PO ALENTEJO

PO LISBOA

PO ALGARVE

PO Açores

PO Madeira

Millions Euros

4.414

2.253

3.379

2.155

1.083

833

319

1.140

403

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RELEVANT PRIORITIES FOR MRE

Objectives (OT) / Investment Priorities (PI)		THEMATIC PROGRAMS		REGIONAL PROGRAMS				
		Competitiveness and Internationalization (COMPETE)	Sustainability and Efficient Use of Resources (PO SEUR)	North, Centre, Alentejo	Lisbon	Algarve	Azores	Madeira
OT 1 – Step up research, technological development and innovation								
PI 1.1	Foster RD&I infra-structures and excellence	V		V	V	V	V	V
PI 1.2	Promote industry investment in RD&I and their connection to RD&I infra-structures	V		V	V	V	V	V
OT 3 – Step up competitiveness of small and medium-sized enterprises								
PI 3.1	Seeting up new Business / startups	V		V	V	V	V	V
PI 3.2	Internationalization	V		V	V	V	V	V
PI 3.3	Advanced capabilities	V		V	V	V	V	V
OT 4 – Support the transition to a low carbon economy in all sectors								
PI 4.1	Renewable energy production		V				V	

136M €

KEY FACTORS AFFECTING FINANCIAL SUPPORT

- ✓ Project size / funding needs
- ✓ Company dimension (small, medium or large)
- ✓ Partnership structure (different calls for different consortium types)
- ✓ Technology readiness (fundamental research, industrial research, pre-commercial, commercial)
- ✓ Investment location (Convergence regions)

➤ CONVERGENCE REGIONS AND ELIGIBILITY TO EU FUNDS

Less developed regions
Co-funding Rate: up to 85%

Regions in transition
Co-funding Rate: up to 80%

More developed regions
Co-funding Rate: up to 50% Lisbon
up to 85% Madeira



PO SUSTAINABILITY AND THE EFFICIENT USE OF RESOURCES (POSEUR)

✓ TYPOLOGY OF PROJECTS:

- Pilot projects for the development and testing of new energy technologies and their integration in the grid (**waves, wind**, geothermal, etc.) **TRL=9**
- Production projects with technologies tested but with low market penetration
- Studies to support the deployment of new offshore technologies

✓ BENEFICIARIES

- Public entities active in the energy market (for studies) and Energy Producers

✓ REIMBURSEMENT LEVEL

- 65% non refundable, 85% for studies
- Grid connection investments cannot be paid by the national electric system

Projects > 25 M€ are treated as a Project of Special Interest with special rules

✓ **TYOPOLOGY OF PROJECTS:**

Target regions: North, Centre, Alentejo

- Fundamental and industrial research
- Demonstrator projects (prototype tests and pre-commercial Projects)
- Protection of intellectual and industrial property rights and commercialization
- Mobilizing Programs (clusters and technology transfer programs)
- Co-promoting R&D projects
- Collective actions
- Enterprise R&D centres

✓ **BENEFICIARIES**

Companies, R&D structures

✓ **REIMBURSEMENT LEVEL**

- Demonstrator Projects and Mobilizing Programs:
 - NON refundable below 1M€ ; up to 75% of the remaining
 - 25% to 85% loan (depending on type of research, company dimension and partnership)

A SME should be able to achieve 70% or even more

RD&I projects above the 10 M€ and investment projects above the 25€ are treated as a Project of Special Interest with special rules

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CALLS – CALENDAR – MANAGING BODIES

POSEUR: Specific calls to the energy sector

Calls may be address by invitation

Managing body: PO SEUR Agency (Supported by DG Energy and Geology)

COMPETE: No specific calls for energy, all economic sectors compete for the same money

MANAGING AND RELEVANT BODIES: PO COMPETE AGENCY

- ✓ AICEP – Project of Special Interest
- ✓ ANI and IAPMEI – Innovation and development (including Intellectual Property Rights)
- ✓ FCT – Basic & Applied research

CALENDAR: Calls are repeated annually

- ✓ PI 4.1- Renewable energy production – pilot projects – October 2016 (**POSEUR**)
- ✓ PI 1.1 and 1.2 – Research funding – Nov 2015 (**COMPETE**)

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FINANCIAL SUPPORT FOR TECHNOLOGISTS

To Keep in mind

- ✓ PORTUGAL 2020 is supposed to foster PORTUGUESE growth and job creation, looking towards internationalization and exports.
- ✓ POSEUR is thematic, but only funds technologies with TRL 9: no significant technological risks, but still with significant business risks .
Partnerships with Energy Producers is requested
- ✓ The COMPETE opens calls for all sectors without distinction, does not address specific topics or specific levels of technological readiness
Partnerships with research structures are valued/requested in R&D co-promotion projects, collective actions;
Setting up joint R&D infrastructures (Innovation Nucleus) are welcome.
- ✓ Companies must be established in Portugal to access funds



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