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

TRL 9
TRL 8
TRL 7
TRL 6
TRL 5
TRL 4
TRL 3
TRL 2
TRL 1

System Test, Launch & Operations
Ocean Demonstration
Ocean Validation
Laboratory Validation
Research to Prove Feasibility
Basic Technology Research

MARKET AND STAKEHOLDERS PERCEPTION

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

PROJECT FINANCE

- Feed-in tariffs have 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
THE ECONOMIC, SOCIAL AND TERRITORIAL DEVELOPMENT FUNDING TOOL IN PORTUGAL BETWEEN 2014 AND 2020

PORTUGAL2020'S KEY GOALS

- 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

EACH PROGRAM SUPPORTS ITS REGIONAL SMART SPECIALISATION STRATEGY (RIS3)
Identifies strategic priorities, in scientific, technological and economic areas
PORTUGAL2020
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

<table>
<thead>
<tr>
<th>THEMATIC PROGRAMS</th>
<th>(COMPETE) COMPETITIVENESS AND INTERNATIONALIZATION</th>
<th>(POSEUR) SUSTAINABILITY AND THE EFFICIENT USE OF RESOURCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTUGAL2020 PRIORITIES – STRUCTURE AND IMPLEMENTATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO NORTE</td>
<td>2.155</td>
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<tr>
<td>PO CENTRO</td>
<td>1.083</td>
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<td>PO ALENTEJO</td>
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<td>PO LISBOA</td>
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<tr>
<td>PO ALGARVE</td>
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<tr>
<td>PO Açores</td>
<td>403</td>
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</tr>
<tr>
<td>PO Madeira</td>
<td>3.379</td>
<td>3.379</td>
</tr>
</tbody>
</table>

Millions Euros

| PO MAR2020 | 4.414 |
| PO NORTE | 2.253 |
| PO CENTRO | 1.083 |
| PO ALENTEJO | 833 |
| PO LISBOA | 319 |
| PO ALGARVE | 1.140 |
| PO Açores | 403 |
| PO Madeira | 3.379 |

Funding To Be Expended Until 2023

*Figures represent millions of Euros.*
## PORTUGAL2020

### RELEVANT PRIORITIES FOR MRE

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

**136M €**
PORTUGAL2020
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 85% Madeira
PORTUGAL2020
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
PORTUGAL2020
PO COMPETITIVENESS AND INTERNATIONALIZATION (COMPETE)

**✓ TYPOLOGY OF PROJECTS:**

- 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

**Target regions:** North, Centre, Alentejo

**✓ 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
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)
PORTUGAL 2020
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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