



Identification of innovation potential of sea and ocean wave energy sector

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Working Group 4: Impacts and economics of wave energy and how they affect decision- and policy-making Topic: identification of innovation potential and exploration of wave energy market potential

It is necessary to first assess the potential for innovative technical solutions in the field of renewable energy production (wave and ocean energy). This is an interdisciplinary task that will require reviewing existing research and previously identified technical solutions.

Reviewing the actual state of renewable energy production requires the use of methods and tools applied in this and other economic sectors, which will require a holistic approach. Scientific publications and databases are the main sources of information on the actual state of innovation of technologies used to generate marine renewable energy from sea and ocean waves. The following databases are proposed to be included in the analysis:

- 1) WoS Core Collection, Google Scholar, ScienceDirect these would be used to analyse recent scientific publications, help evaluate the state of the science concerning sea and ocean wave energy, and identify experts in this field [1, 2, 3];
- 2) Available patent databases such as WoS Derwent Innovations Index, Espacenet, WIPO Patentscope, Google Patents or Patent Innovation these would help identify technical solutions and determine their innovativeness and market potential [1, 4, 5, 6].

The information obtained will allow for the assessment of the potential for technology development in the industry and may be used to create industry development standards.

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References

- 1. Web of Science, https://apps.webofknowledge.com, (accessed on Oct 9, 2019).
- 2. Google Scholar, https://scholar.google.com/, (accessed on Oct 9, 2019).
- 3. ScienceDirect, https://www.sciencedirect.com/, (accessed on Oct 9, 2019).
- 4. Espacenet, https://worldwide.espacenet.com/, (accessed on Oct 9, 2019).
- 5. WIPO Patentscope, https://patentscope.wipo.int/, (accessed on Oct 9, 2019).
- 6. Google Patents, https://www.google.com/patents?, (accessed on Oct 9, 2019).
- 7. Patent Innovation, http://www.patentinspiration.com/, (accessed on Oct 9, 2019).



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