



Collecting and Disseminating Environmental Effects Research to Support the Marine Renewable and Wind Energy Industries

2016 UPDATE

The *Tethys* knowledge management system, launched in 2012, provides information on environmental effects of marine renewable (such as wave and tidal) and wind (land-based and offshore) energy to support a growing user community. To view *Tethys* go to <https://tethys.pnnl.gov>

TETHYS CONTENT

Tethys content is regularly updated with recent research that has the potential to progress the marine renewable energy (MRE) industry in an environmentally responsible manner. *Tethys* features the knowledge base that provides access or links to thousands of publications including journal articles, reports, and other media, as well as metadata information on MRE projects and research studies worldwide, to reflect the current state of knowledge of environmental effects. *Tethys* also hosts a suite of archived broadcasts including webinars on current research, and expert forums to discuss technical challenges and encourage research collaboration, as well as *Tethys* Blasts and *Tethys* Stories on MRE findings, events and industry news. The content of *Tethys* is curated to ensure the content is up to date, searchable, and easily accessible to the MRE community internationally.



Tethys has been developed specifically for these uses:

MRE Project Developers can view research findings to assist with siting renewable projects while minimizing risk to the environment;

Regulatory Agency Staff will find support for permitting processes and natural resource management decisions to assist with streamlining the permitting process;

Stakeholders may be interested in the industry or in a proposed project's location and/or associated environmental studies; and

Researchers can easily sift through relevant environmental documents to plan research studies and identify important gaps in knowledge.

Top Pages Accessed by Users in 2016 (pageviews)

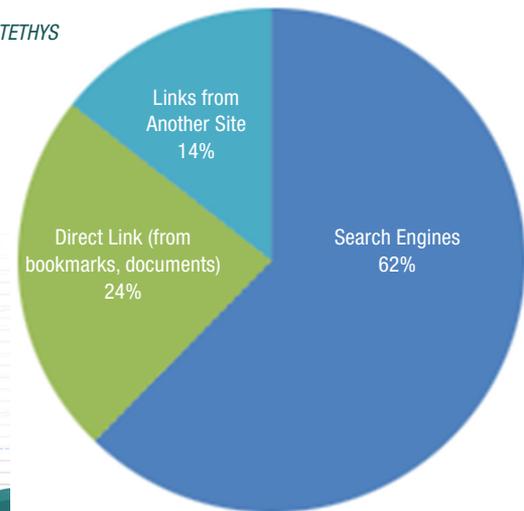
1. Home Page (10,320)
2. Register for *Tethys* (4,470)
3. State of the Science Report (2,720)
4. Knowledge Base (2,460)
5. La Rance Tidal Barrage (1,730)
6. Marine Energy (1,730)
7. About Annex IV (1,690)
8. *About Tethys* (1,480)
9. San Juan Islands (1,470)
10. About WREN (1,420)

To track the relevance and usefulness of *Tethys* content, metrics are used to judge the specific uses of *Tethys*. For example, pageviews is a measure of overall use of the site. The *2016 Annex IV State of the Science Report* and the *Tethys* Knowledge Base were both among the top ten pages accessed by users in 2016.

GROWTH AND CONNECTEDNESS OF TETHYS

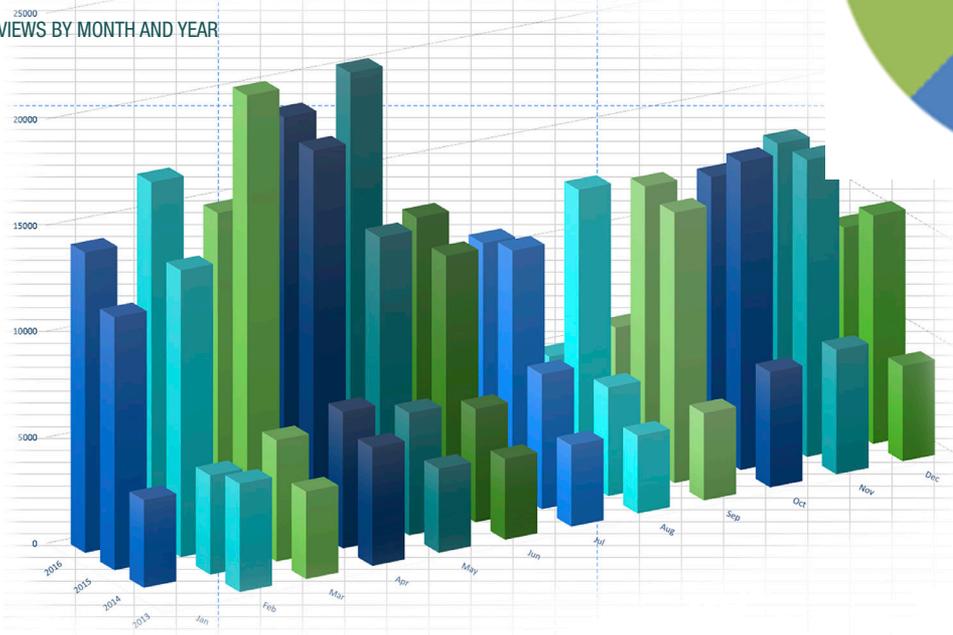
Since 2012, *Tethys* has collected and disseminated information on the environmental effects of MRE and wind energy, growing each year. *Tethys* is extensively used in many countries throughout the world (35 countries in 2012 and 39 countries in 2016) and continues to be widely recognized in countries pursuing MRE development.

FINDING TETHYS



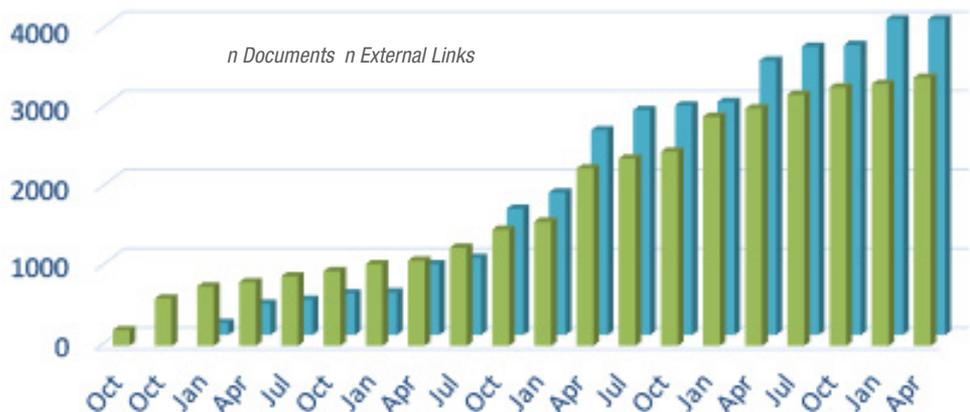
As *Tethys* grows and becomes better known, users find their way to *Tethys* from several different entry points: search engines; links and bookmarks within online documents including *Tethys* Blasts; external websites; and social media.

PAGEVIEWS BY MONTH AND YEAR



Pageviews are a good measure of use of the site, representing how many people visit the website and the specific focus of their interest. This 3-D plot showcases the growth in *Tethys* use from 2013-2016, as the content has increased and the site has become better known. Between 2013-2016 monthly pageviews show seasonal trends that peak in spring and fall, perhaps mirroring increased use by educational institutions. (Data normalized by days per month)

NUMBER OF DOCUMENTS AND EXTERNAL LINKS ON TETHYS (2012-2016)



The content of *Tethys* has grown significantly since 2012 and continues to expand and connect users to the most relevant and up to date information on MRE environmental effects. Although *Tethys* contains over 3,500 documents, each one is hand-selected for its relevance to the environmental effects of MRE. Additionally, as the *Tethys* collection increases users are directed to an increasing number of resources, demonstrating the connectedness of the site and the wide variety of information available to *Tethys* users.

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