

INSPIRE: IRENA's interactive tool for patent trends and international standards in RE

TUESDAY, 26 JANUARY 2021 • 14:00-14:30 CET

SPEAKERS



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recording at
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2020/Jun/IRENA-Insights](https://irena.org/events/2020/Jun/IRENA-Insights)
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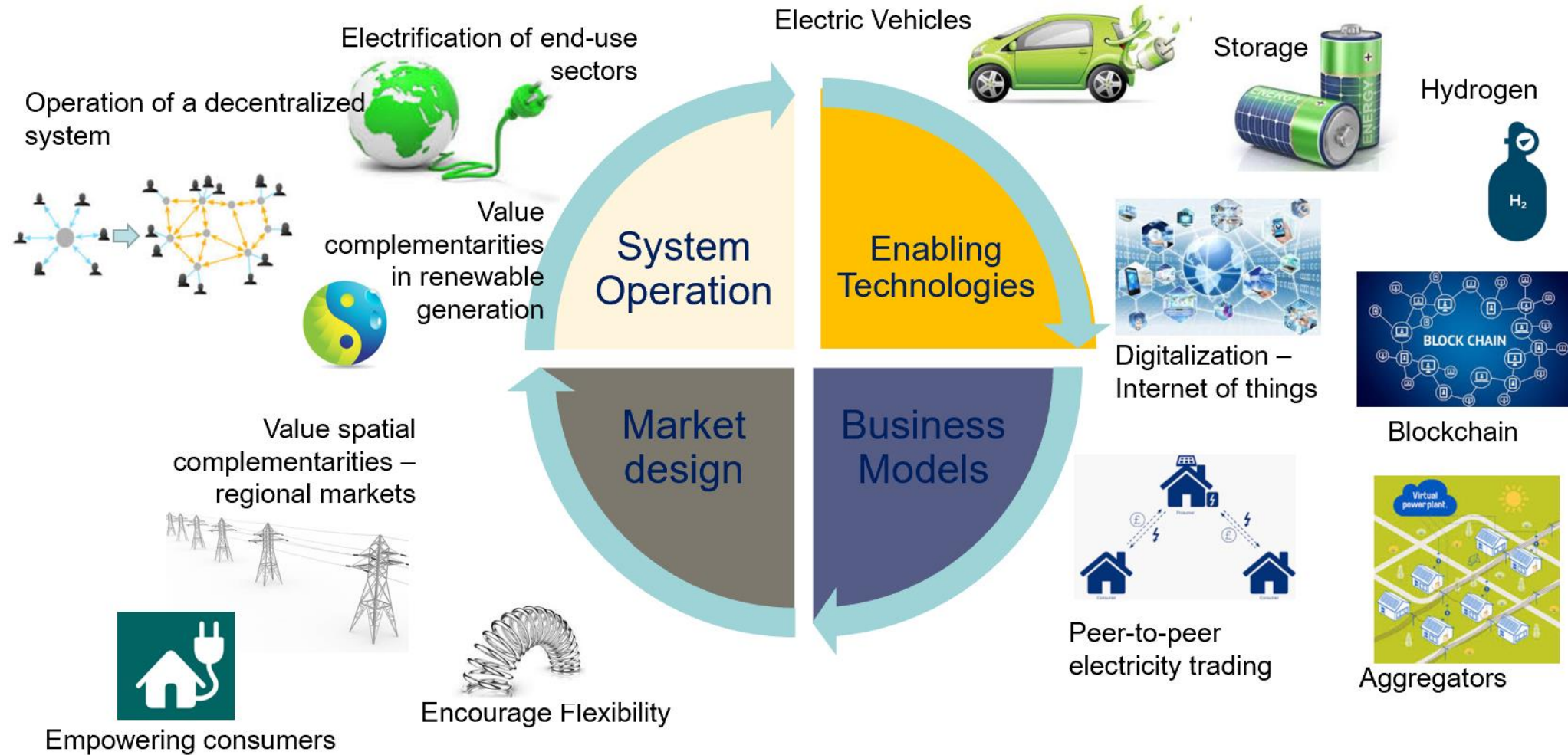
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- Innovation in the energy transition and the importance of patents and standards
- IRENA's International Standards and Patents in Renewable Energy (INSPIRE)
- Examples of patent and standards analysis application
- Key takeaways

A varied landscape of innovations in the energy transition



The International Standards and Patents in Renewable Energy “INSPIRE”

Publicly Available Interactive Web Tool: <http://inspire.irena.org/Pages/home.aspx>



HOME

PATENTS ▾

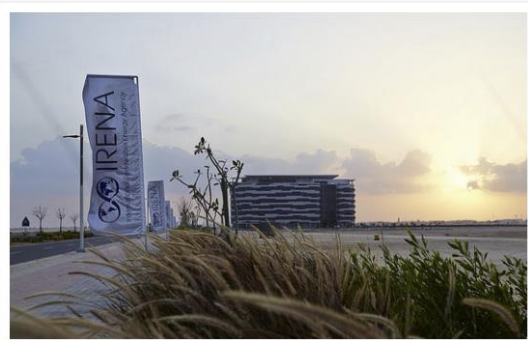
STANDARDS ▾

QUALITY ASSURANCE ▾

CONTACT US



PLATFORM ON PATENT DATA AND TECHNICAL STANDARDS INFORMATION FOR RENEWABLE ENERGY

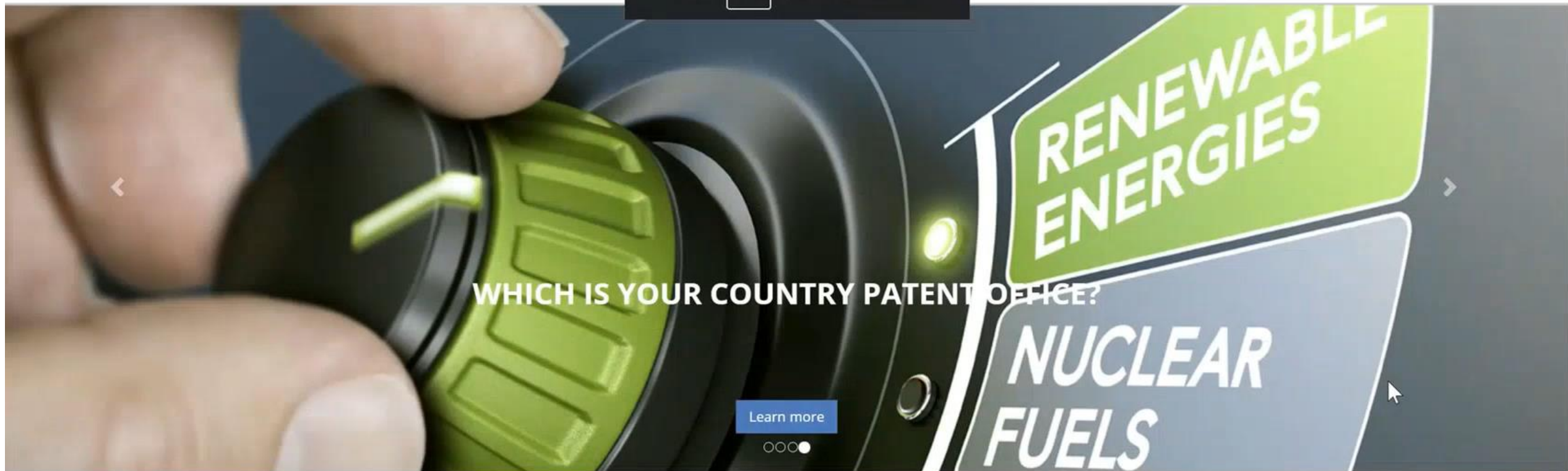


The International Standards and Patents in Renewable Energy (INSPIRE) is a platform of the [International Renewable Energy Agency](#), designed to provide up-to-date information on standards and patents in renewable energy.

Search through, locate and perform analysis from a database with more than 2 million patents and over 400 international standards.

INSPIRE, explains in an friendly and easy way technical information related to patents, standardisation and quality assurance. Navigate through the main menu to learn more about how to apply to a patent, what is a standard or how to develop quality assurance for renewable technologies.

Press **F11** to exit full screen



PLATFORM ON PATENT DATA AND TECHNICAL STANDARDS INFORMATION FOR RENEWABLE ENERGY



The International Standards and Patents in Renewable Energy (INSPIRE) is a platform of the International Renewable Energy Agency, designed to provide up-to-date information on standards and patents in renewable energy.

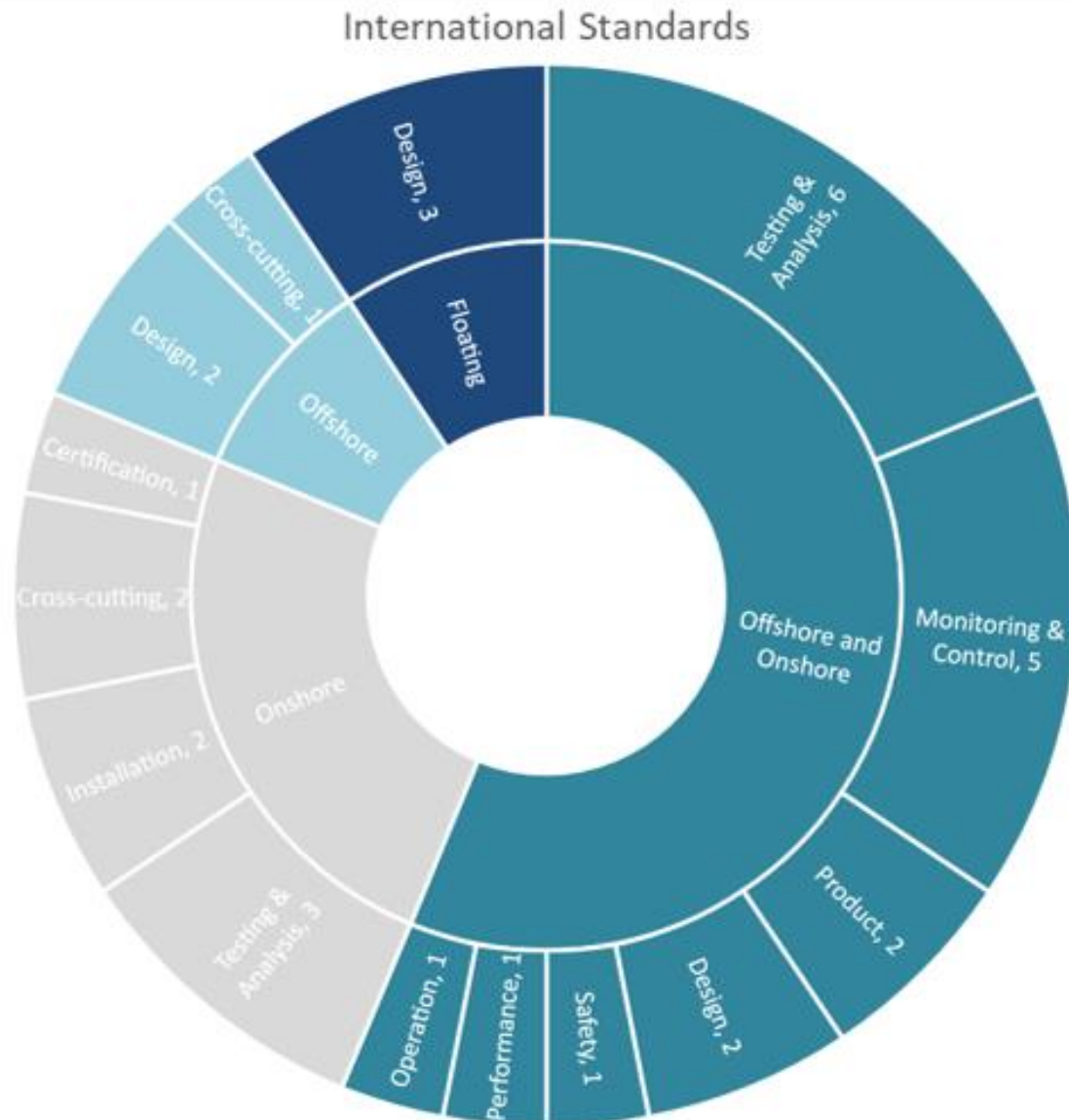
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Example: patents and standards as a metric for clean energy innovation

- **“Tracking Energy Innovation Impact Framework (TEIIF)” European Commission-funded project**
- **Objective:** understand the impacts that innovation is having on progress in clean energy technologies and in the transformation of energy systems around the world
- **One component of the project:** exploring the use of patents and standards to understand impacts in the context of clean energy innovation.
 - Selected pilot technology: offshore wind
 - Example of indicators:
 - **Patents:** Number of patent families, Number of high value inventions filed, Number of international inventions filed
 - **Standards:** Number of international standards, Number of international standards under development, Aspects covered, Countries developing standards, Countries adopting standards, Normative references for standards development

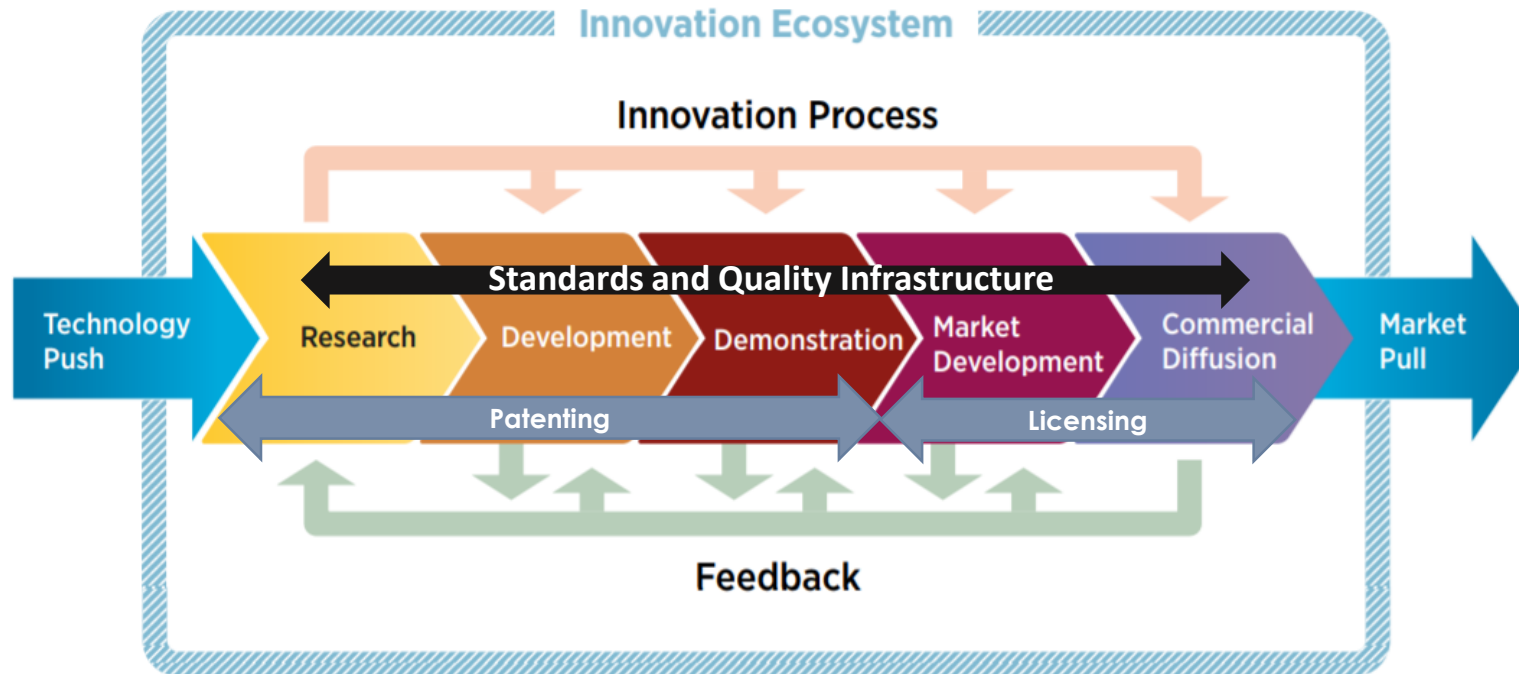
Offshore wind standards – today's state of art



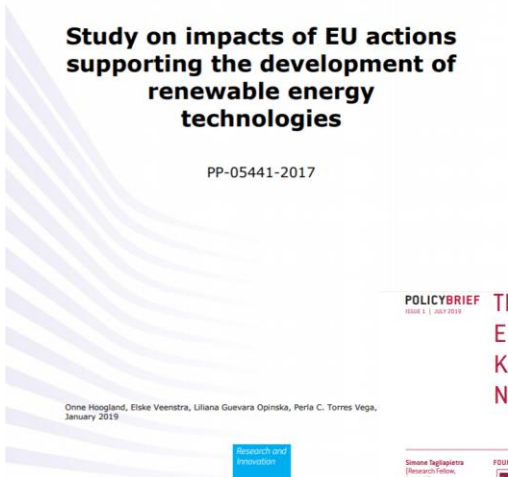
Initial Findings

- 35+ of international standards published up to date (2020)
- 67% of **offshore** wind standards focus on design
- Onshore wind has strong focus on testing, monitoring and installation, lays foundation on 'anticipatory standards'
- Innovation in OWT reaching market

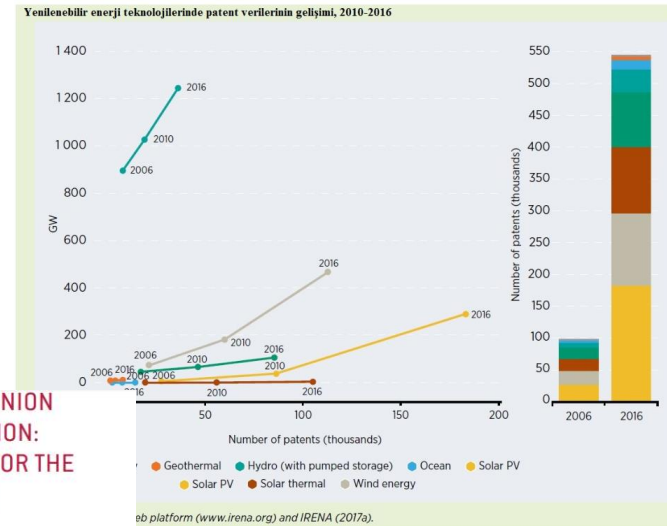
Key takeaways



- **Patents and standards data** are a valuable metric to monitor and track renewable energy technology innovation progress and development (i.e. which trends in technology development, which countries are active, where the potential markets are...)
- The **INSPIRE database** is a free and practical tool providing up-to-date information on standards and patents in renewable energy: <http://inspire.irena.org/Pages/home.aspx>
- **IRENA makes extensive use of the INSPIRE database** for the development of its technical reports and other materials
- **IRENA continuously offers support to its Members** on how to use INSPIRE through capacity building activities



2006'dan bu yana yenilenebilir enerji kaynakları arasında en hızlı patent artışı kaydeden Solar PV, 2016 yılında tüm yenilenebilir enerji teknolojileri arasında en büyük paya sahip oldu. Solar PV ve güneş enerjisi teknolojileri birlikte 2016'daki patentlerin yarısından fazlasını oluşturuyor. Rüzgar patentleri toplamın beşte birini, biyoenerji ise altıda birini oluşturuyor. Bunları hidroelektrik ve diğerleri takip ediyor.



Countries using INSPIRE

- » EU
- » Germany
- » Spain
- » Chile
- » Belgium
- » United Arab Emirates
- » Norway
- » Greece

Private Sector

- ✓ KPMG

Associations/Institutes

- ✓ Institute for Advanced Sustainability Studies e.V. (IASS)
- ✓ Association for the Protection of Intellectual Property (AIPPI)

IRENA Innovation work



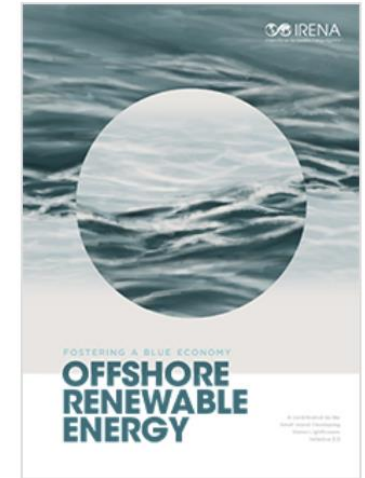
Thermal Storage
(November 2020)



Ocean Energy Technologies
(December 2020)



Quality infrastructure for smart mini-grids
(December 2020)



Offshore Renewable Energy
(December 2020)



Innovation Landscape for the Power Sector Transformation



Innovation Outlooks



Reports in innovation: energy transition, policy, IP, RD&D cooperation mechanisms



IRENA Technology Briefs



Q & A
10 min

NEXT WEBINAR

☐ **9 FEBRUARY 2021 • 14:00 CET**

“Mini-grids of the future: renewables innovation and resilience”

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☐ **23 FEBRUARY 2021 • 12:00 CET**

“Skill Building for the Energy Transition”

For more information and to register:

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