



# What's new on Renewables at the IEA?

## - February 2018 -

*The objective of "What's new on Renewables at the IEA?" is to provide REWP delegates, IEA Energy Advisors, RIAB members and the REWP's TCPs experts with updates on IEA publications, major IEA events and other issues of key relevance. The news alert will be sent to all relevant representatives twice a year.*

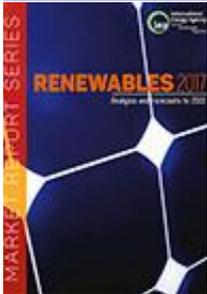
### 1. IEA Publications in the second half of 2017 & 2018

#### 1.1. IEA Renewable Energy Publications

##### **Renewable Energy Market Report (REMR) 2017 (October 2017)**

The renewable electricity market has witnessed an unprecedented acceleration in recent years, and it broke another annual deployment record in 2016. The market's main driver last year was solar photovoltaics, which is boosting the growth of renewables in power capacity around the world. As costs decline, wind and solar are becoming increasingly comparable to new-build fossil fuel alternatives in a growing number of countries...

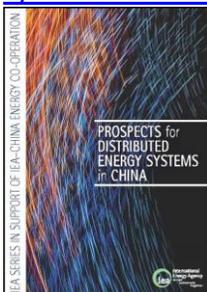
[http://www.iea.org/bookshop/761-Market\\_Report\\_Series:\\_Renewables\\_2017](http://www.iea.org/bookshop/761-Market_Report_Series:_Renewables_2017)



##### **Prospects for Distributed Energy Systems in China (October 2017)**

Industrial restructuring and diversification of energy demand are accelerating in the People's Republic of China (hereafter, "China"). In addition, driven by resource and environmental constraints, as well as pressure to reduce carbon emissions, China's primary energy consumption structure is expected to shift in coming decades. This transition is...

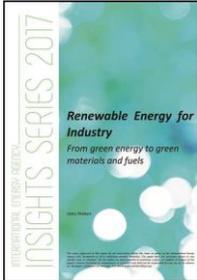
<http://www.iea.org/publications/freepublications/publication/prospects-for-distributed-energy-systems-in-china.html>



### Renewable Energy for Industry (November 2017)

The rapid fall in cost of solar and wind power technologies opens a new range of possibilities to decarbonise the global economy and cut carbon emissions from industry. Besides direct renewable heat and electrification, hydrogen-rich chemicals that are easy to store and transport could serve as feedstock, process agents and fuels...

<http://www.iea.org/publications/insights/insightpublications/renewable-energy-for-industry.html>



### Technology Roadmap on Delivering Sustainable Bioenergy (November 2017)

Bioenergy is the main source of renewable energy today. IEA modelling also indicates that modern bioenergy is an essential component of the future low carbon global energy system if global climate change commitments are to be met, playing a particularly important role in helping to decarbonise sectors such as aviation, shipping and long haul road transport...

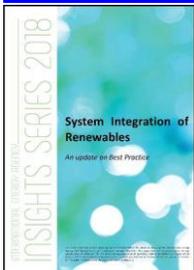
<http://www.iea.org/publications/freepublications/publication/technology-roadmap-delivering-sustainable-bioenergy.html>



### System Integration of Renewables (January 2018)

This report combines selected chapters from three existing IEA publication, namely *Next Generation Wind and Solar Power*, *Getting Wind and Sun onto the Grid* and *Status of Power System Transformation 2017*. These are combined to form a comprehensive overview of system integration strategies, while aiming to provide one single and concise publication...

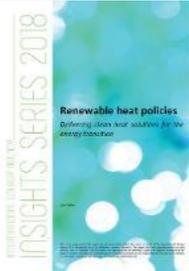
<http://www.iea.org/publications/insights/insightpublications/system-integration-of-renewables.html>



### Renewable Heat Policy Insights Paper (January 2018)

Heat accounts for over half of global energy consumption and is a significant contributor to CO<sub>2</sub> emissions. Renewables play a key role in decarbonising and providing cleaner heat but currently account for less than 10% of heat supply...

<http://www.iea.org/publications/insights/insightpublications/renewable-heat-policies.html>



**Forthcoming: Status of Power System Transformation 2018 (to be launched in May 2018)**

## 1.2. Other major IEA Publications relevant to renewable energy

### World Energy Investment (WEI) 2017 (July 2017)

The second annual IEA benchmark analysis of energy investment – the lifeblood of the global energy system – presents diverse findings, with upbeat news in some quarters and bearish indicators in others. *World Energy Investment 2017* provides a critical foundation for decision making by governments, the energy industry and financial institutions...

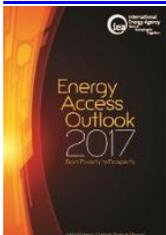
[http://www.iea.org/bookshop/759-World\\_Energy\\_Investment\\_2017](http://www.iea.org/bookshop/759-World_Energy_Investment_2017)



### WEO-2017 Special Report: Energy Access Outlook (October 2017)

Energy is essential for humanity to develop and thrive. In 2015, the new Sustainable Development Goals, adopted by 193 countries, included for the first time a target to ensure affordable, reliable, sustainable and modern energy ...

<https://www.iea.org/publications/freepublications/publication/weo-2017-special-report-energy-access-outlook.html>



### WEO-2017 Special Report: Southeast Asia Energy Outlook (October 2017)

The ten Association of Southeast Asian Nations (ASEAN) countries are among the most dynamic parts of the global energy system and a rising force in international energy affairs. Thanks to its growing partnership with Southeast Asia, the International Energy Agency (IEA) has conducted regular in-depth studies of the energy challenges facing this region...

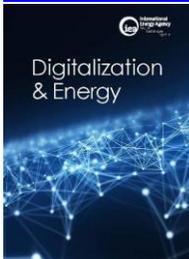
<http://www.iea.org/publications/freepublications/publication/weo-2017-special-report-southeast-asia-energy-outlook-.html>



### Digitalization and Energy (November 2017)

Over the coming decades, digital technologies are set to make energy systems around the world more connected, intelligent, efficient, reliable and sustainable. Stunning advances in data, analytics and connectivity are enabling a range of new digital applications such as smart appliances, shared mobility, and 3D printing...

<http://www.iea.org/digital/>



### World Energy Outlook (WEO) 2017 (November 2017)

The global energy scene is in a state of flux. Understanding the dynamic interplay of energy markets, technology and policy has never been more critical. The *World Energy Outlook (WEO)*, widely regarded as the gold standard of energy analysis, provides strategic insight on what today's policy and investment decisions mean for long-term trends...

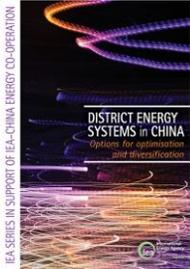
<http://www.iea.org/newsroom/news/2017/march/world-energy-outlook-2017-to-include-focus-on-chinas-energy-outlook-and-the-natu.html>



### District Energy Systems in China (December 2017)

China's district heat network is the world's largest. In 2015, it consumed more energy than the entire United Kingdom. While progress is being made, the total impact of energy use and emissions from district heating and even district cooling – on the Chinese economy, on local air quality and health, and on the overall well-being of China's population – is nevertheless significant...

<https://www.iea.org/publications/freepublications/publication/district-energy-systems-in-china.html>



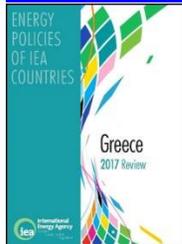
### 1.3. In-depth country reviews

The IEA publishes reviews of the energy policies of its member states every 5 years. The reviews include chapters on renewable energy. The following reviews have been published in the second half of 2017 and 2018 and can be downloaded for free:

- **Greece (October 2017)**

Greece is currently implementing comprehensive energy sector reforms towards creating competitive energy markets. The reforms will reveal opportunities for investors and for transformation of the energy system, thereby providing sustainable outcomes for the environment and for Greek society...

<http://www.iea.org/publications/freepublications/publication/energy-policies-of-iea-countries---greece-2017-review.html>



- **Denmark (November 2017)**

Denmark has a long tradition of setting ambitious national energy targets. In 2030, renewables should cover at least half of the country's total energy consumption. By 2050, Denmark aims to be a low-carbon society independent of fossil fuels. The country is moving convincingly to meet these world-leading targets...

<http://www.iea.org/publications/freepublications/publication/energy-policies-of-iea-countries---denmark-2017-review.html>



- **Chile (January 2018)**

Chile’s energy policy has evolved dynamically in recent years. In response to changes in the domestic and international environment, significant institutional and policy reforms as well as major infrastructure projects have been carried out. The National Energy Policy 2050 was adopted in 2015, following an exceptionally inclusive public consultation. The electricity sector, in particular, has developed quickly...

<http://www.iea.org/publications/freepublications/publication/energy-policies-beyond-iea-countries---chile-2018-review.html>



- **Australia (February 2018)**

Australia has abundant energy resources. It is a leading exporter of coal, uranium and liquefied natural gas (LNG), much of which is destined for Asia’s growing markets. At home, Australia’s energy sector is undergoing a significant transformation. The power system is seeing higher shares of variable wind and solar power; South Australia leads the deployment...

<http://www.iea.org/publications/freepublications/publication/energy-policies-of-iea-countries---australia-2018-review.html>



For older IDR reports, please see the link below. <http://www.iea.org/publications/countryreviews/>

## 2. IEA Events in the second half of 2017 & 2018

### 2.1. IEA Renewable Energy Events

#### **IEA COP23 Event: The role of renewable energy in industry (November 2018)**

This session will present a new IEA report and provide examples of increased use of renewable in the Nordic industrial sector. Reducing long-term greenhouse gas (GHG) emissions of the industry sector is one of the toughest challenges of the energy transition. Combustion and process emissions from cement manufacturing, iron- and steelmaking, and chemical production are particularly problematic...

Agenda and presentations of the workshop

<http://www.iea.org/workshops/23rd-session-of-the-conference-of-the-parties-to-the-unfccc-cop23.html#IEA-RE-Industry>

#### **IEA Renewable Industry Advisory Board Meeting (to be held on 26<sup>th</sup> March 2018)**

The Renewable Industry Advisory Board (RIAB) was established to enhance industry contact with the IEA and its Renewable Energy Working Party. RIAB is made up of a selected group of leading industrial stakeholders from the renewable energy sector, represented at Board Level, and meets two or three times a year...

<https://www.iea.org/topics/renewables/partners/>

**Forthcoming: IEA REWP EEWP Workshop – Enhancing the impact of renewable and energy efficiency policies (to be held on 27<sup>th</sup> March 2018) Attendance is by invitation only.**

### 2.2. Other major IEA Events relevant to renewable energy

#### **2nd Universal Meeting of IEA Technology Collaboration Programmes (October 2017)**

For over 42 years, IEA Technology Collaboration Programmes (TCPs) have been bringing together 6,000 top experts from 53 countries, key companies, and key research institutions. Recognizing the critical need for accelerated energy technology innovation, IEA Ministers in 2015 agreed to further strengthen the technology and innovation-related activities of the Agency...

Agenda and presentations of the workshop

<http://www.iea.org/workshops/2nd-universal-meeting-of-iea-technology-collaboration-programmes.html>



#### **2017 IEA Ministerial (November 2017)**

Ministers and top government officials from the International Energy Agency's 29 member countries, seven Association countries – Brazil, China, India, Indonesia, Morocco, Singapore and Thailand – and other partners, as well as more than 30 CEOs from across the energy spectrum, met in Paris this week for the IEA's 2017 Ministerial Meeting...

Article about the meeting

<http://www.iea.org/newsroom/news/2017/november/worlds-energy-leaders-gather-for-the-ieas-2017-ministerial-meeting.html>

Chair's summary of the meeting

<http://www.iea.org/media/news/2017/ChairsSummary.pdf>



### IEA COP23 Event (November 2017)

For the last two decades, the International Energy Agency has attended the annual UNFCCC Conference of Parties (COP) negotiations, underscoring the fact that meeting climate goals entails transforming energy systems. ..

Article about the event

<https://www.iea.org/newsroom/news/2017/november/cop23-an-important-step-towards-paris-agreement-implementation.html>

Agenda and presentations of the event

<http://www.iea.org/workshops/23rd-session-of-the-conference-of-the-parties-to-the-unfccc-cop23.html>



### IEA Workshop on Energy Management Systems and Digital Technologies for Industrial Energy Efficiency and Productivity (December 2017)

The IEA hosted a workshop in Paris on 12 and 13 December to examine the energy efficiency benefits arising from energy management systems, such as ISO 50001 and GB/T 23331, and digital technologies within the industry sector and what policies or measures can be deployed by government to incentivise their greater uptake and effectiveness...

Agenda and presentations of the workshop

<http://www.iea.org/workshops/iea-industrial-energy-efficiency-workshop.html>

**Forthcoming: IEA Strategic Session on the Future of Transport (at the 79<sup>th</sup> CERT meeting, to be held on 13-14 February 2018) Attendance is by invitation only.**

### **3. Renewable Energy Policy Update**

The aim of Renewable Energy Policy Update is to provide updates on selected developments in renewable energy policy and markets for OECD and non-OECD countries

<https://www.iea.org/topics/renewables/partners/>

### **4. Renewable and Hydrogen TCPs news (OPEN Energy Technology Bulletin)**

The following are key outputs from the renewables and hydrogen TCPs during the second half of 2017.

For more information, please see <http://www.iea.org/tcp/renewables/>

- Global trends and outlook for hydrogen [Hydrogen TCP activity]
- Methane emissions from biogas plants [Bioenergy TCP]
- Ocean energy in insular conditions [OES TCP]
- Political and regulatory issues related to bio-CC(U)S [Bioenergy TCP]
- Austria's Climate and Energy Fund wins 2017 SHC Solar Award [SHC TCP]
- The role of industrial biorefineries in a low-carbon economy [Bioenergy TCP]

### **5. Other Selected IEA News**

#### **Chair of IEA Photovoltaic Power Systems TCP honoured in Amsterdam (October 2017)**

Dr Stefan Nowak was awarded the European Becquerel Prize for Outstanding Merits in Photovoltaics on Monday at the EU PV Conference in Amsterdam. This prize, established by the European Commission in 1989, was awarded to Dr Nowak in honor of his significant contributions in the field of integration of solar photovoltaic electricity into the global energy system...

<https://www.iea.org/newsroom/news/2017/september/chair-of-iea-photovoltaic-power-systems-tcp-honoured-in-amsterdam.html>

#### **Solar PV grew faster than any other fuel in 2016, opening a new era for solar power (October 2017)**

New solar PV capacity grew by 50% last year, with China accounting for almost half of the global expansion, according to the International Energy Agency's latest renewables market analysis and forecast. For the first time, solar PV additions rose faster than any other fuel, surpassing the net growth in coal. Boosted by a strong solar PV market...

<https://www.iea.org/newsroom/news/2017/october/solar-pv-grew-faster-than-any-other-fuel-in-2016-opening-a-new-era-for-solar-pow.html>

#### **Brazil joins IEA as an Association country, reshaping international energy governance (October 2017)**

BRASILIA – The International Energy Agency and Brazil jointly announced today that the country joined the IEA as an Association country, opening new avenues for cooperation towards a more secure and sustainable energy future with Latin America's largest country...

<https://www.iea.org/newsroom/news/2017/october/brazil-joins-iea-as-an-association-country-reshaping-international-energy-govern.html>

### **Digitalization set to transform global energy system with profound implications for all energy actors (November 2017)**

Digital technologies are set to transform the global energy system in coming decades, making it more connected, reliable and sustainable. This will have a profound and lasting impact on both energy demand and supply, according to a new report by the International Energy Agency. In this first comprehensive report...

<https://www.iea.org/newsroom/news/2017/november/digitalization-set-to-transform-global-energy-system-with-profound-implications-f.html>

### **IEA launches the Clean Energy Transitions Programme to support clean-energy development (November 2017)**

The International Energy Agency announced today the launch of the Clean Energy Transitions Programme, a new multi-year, EUR 30 million plan backed by 13 countries to support clean energy transitions around the world...

<https://www.iea.org/newsroom/news/2017/november/iea-launches-the-clean-energy-transitions-programme-to-support-clean-energy-devel.html>

### **IEA Ministers invite Mexico to become agency's 30th member (November 2017)**

Ministers representing the International Energy Agency's 29 member countries unanimously endorsed the rapid steps Mexico was taking to become the next member of the IEA, expanding membership to Latin America and providing a major boost for global energy governance...

<https://www.iea.org/newsroom/news/2017/november/iea-ministers-invite-mexico-to-become-agencys-30th-member.html>

### **Commentary: Renewable energy offers cost-effective options to cut carbon emissions from industry (November 2017)**

Reducing long-term greenhouse gas (GHG) emissions in the industry sector is one of the toughest challenges of the energy transition. Combustion and process emissions from cement manufacturing, iron- and steelmaking, and chemical production are particularly problematic...

<https://www.iea.org/newsroom/news/2017/november/commentary-renewable-energy-offers-cost-effective-options-to-cut-carbon-emission.html>

### **Commentary: IEA on track to become a truly global organization (November 2017)**

The recent ministerial meeting of the International Energy Agency marked a watershed moment in the agency's history. Over two days, IEA member countries and major emerging economies discussed their energy transition pathways with top business executives, including the CEOs of some of the largest energy companies...

<https://www.iea.org/newsroom/news/2017/november/commentary-iea-on-track-to-become-a-truly-global-organisation.html>

### **Commentary: Plotting a path for greater bioenergy use (November 2017)**

The recent discussions on renewable energy are mostly focused on the rapid growth of wind and solar deployment and their impressive drop in cost. While these developments are remarkable, they also overshadow what remains the most important source of renewable energy today – bioenergy.

<https://www.iea.org/newsroom/news/2017/november/commentary-plotting-a-path-for-greater-bioenergy-use.html>

### **Executive Director Dr Fatih Birol recognized as Energy Personality of the Year (December 2017)**

Dr Fatih Birol, the International Energy Agency's executive director, has been recognized by the Financial Times as the "energy personality of the year." ...

<https://www.iea.org/newsroom/news/2017/december/executive-director-dr-fatih-birol-recognized-as-energy-personality-of-the-year.html>

### **IEA Governing Board re-elects Dr Fatih Birol as Executive Director (January 2018)**

The Governing Board of the International Energy Agency has re-elected Dr Fatih Birol as Executive Director for a second term. The unanimous decision to extend his tenure by another four years follows a process initiated by IEA Member Countries at their last Ministerial Meeting in November 2017...

<https://www.iea.org/newsroom/news/2018/january/iea-governing-board-re-elects-dr-fatih-birol-as-executive-director.html>

### **Chile's renewable energy potential promises multiple benefits for the country, according to latest IEA country review (January 2018)**

SANTIAGO – Chile has emerged as a world-class destination for solar and wind energy developers, according to the International Energy Agency's latest review of the country's energy policies...

<https://www.iea.org/newsroom/news/2018/january/chiles-renewable-energy-potential-promises-multiple-benefits-for-the-country-ac.html>

### **Commentary: More policy attention is needed for renewable heat (January 2018)**

As winter temperatures plummet in the Northern hemisphere, renewable heat is increasingly being used to provide heat for warmth and comfort. Yet it has a long way to go to catch up with fossil fuels, which currently provide more than three-quarters of heat production globally, resulting in significant CO<sub>2</sub> emissions and in some cases adding to local air pollution...

<https://www.iea.org/newsroom/news/2018/january/commentary-more-policy-attention-is-needed-for-renewable-heat.html>

### **IEA commends Australia's commitment to affordable, secure and clean energy (February 2018)**

Australia should rely on long-term policy and energy market responses to strengthen energy security, foster competition, and make the power sector more resilient, according to the International Energy Agency's latest review of the country's energy policies...

<https://www.iea.org/newsroom/news/2018/february/iea-commends-australias-commitment-to-affordable-secure-and-clean-energy.html>

### **IEA marks historic day in global energy governance with first member country in Latin America (February 2018)**

PARIS – Mexico officially became the International Energy Agency's 30<sup>th</sup> member country on 17 February 2018, and its first member in Latin America. The membership came after the signed IEA treaty (the *IEP Agreement*) was deposited with the government of Belgium, which serves as the depository state, following ratification by the Mexican Senate...

<https://www.iea.org/newsroom/news/2018/february/mexico-officially-joins-iea-as-30th-member-country.html>

If you have some questions about the IEA Renewable Energy News, please feel free to contact Ms. Michelle Adonis at ([Michelle.ADONIS@iea.org](mailto:Michelle.ADONIS@iea.org)) or Mr. Hideki Kamitara ([Hideki.KAMITATARA@iea.org](mailto:Hideki.KAMITATARA@iea.org)).