

IRENA Bulletin 3/2016

May 2016

Dear IRENA Members and States in Accession,

This issue of the *IRENA Bulletin* covers activities and meetings of the International Renewable Energy Agency (IRENA) in March and April 2016 and also looks ahead to the Agency's upcoming engagements and publications. A continuously-updated version of this overview is available on [REmember](#), the portal for the IRENA membership.

Recent Activities and Events

Renewables Readiness Assessment Tanzania: Validation Workshop

9-10 March 2016

Dar es Salaam, Tanzania

IRENA, together with the Ministry of Energy and Minerals (MEM) of the Government of Tanzania, convened a national expert workshop to present the findings of the Tanzanian Renewables Readiness Assessment (RRA) background paper. The objective of the stakeholder workshop was to develop a strategy and action plan to speed up renewable energy deployment in the country. The workshop was attended by 53 participants, including from ministries, United Nations agencies, the European Union, NGOs, financing institutions, industry, and research institutions. During the meeting, participants held in-depth discussions on four topics, namely: resource assessment and planning; policy and regulatory frameworks; private sector engagement; and human capacities and skills. The workshop provided an opportunity for participants to contribute to the development of a vision and a roadmap for renewable energy deployment in Tanzania. The RRA report will be finalised based on the workshop results and will serve as a basis for the development of country specific activities.

Contact: Safiatou Alzouma Nouhou (SAlzouma@irena.org)

REmap ASEAN Regional Analysis Kick-off Meeting

14 March 2016

Manila, Philippines

In cooperation with the Association of Southeast Asian Nations (ASEAN) Centre for Energy (ACE), IRENA is conducting a joint study titled "Renewable Energy Roadmap Outlook for ASEAN - a REmap 2030 analysis". The study applies IRENA's REmap analytical methodology and tools at the regional level and aims to identify technology and sector pathways to achieve ASEAN's region-wide renewable energy target of 23% in total primary energy supply by 2025, from the 2015 level of around 10%. This meeting, held in Manila and hosted by the Department of Energy of the Philippines with the support of GIZ, served to introduce the REmap and data acquisition methodology and to discuss conditions characteristic to the region. The preliminary findings from this analysis are planned to be presented at the next ASEAN Meeting for Energy Ministers in September 2016.

Contact: Deger Saygin, Yong Chen (DSaygin@irena.org, YChen@irena.org)

Regional Expert Meeting on Climate Change and Renewable Energy in East and Southern Africa

17-18 March 2016

Addis Ababa, Ethiopia

IRENA, in collaboration with the African Development Bank (AfDB), the United Nations Economic Commission for Africa (UNECA) and the United Nations Framework Convention on Climate Change (UNFCCC) Regional Collaboration Centre for East and Southern Africa in Kampala, organised a regional

expert meeting on renewables and climate change in East and Southern Africa. The meeting was held in response to requests from African countries to support their efforts to enhance renewable energy as part of ambitious climate strategies. The meeting brought together policy-makers and experts from Djibouti, Ethiopia, Kenya, Mauritius, South Africa, Swaziland and Zimbabwe, covering energy and climate change issues. During the workshop it was noted that for many African countries, the preparation process of Intended Nationally Determined Contributions (INDC) had been challenging. It was highlighted however that, moving forward, Nationally Determined Contributions (NDCs) offer African countries a chance to refine their low-emission strategies while strengthening cross-sector collaboration and addressing development and climate issues in light of the continent's fast economic development and potential for renewable energy. Among other issues, the workshop also highlighted the need to enhance efforts to mobilise and engage the private sector in accelerating the deployment of renewables, including as part of climate action, and to continue the dialogue between the climate and energy community.

Contact: Angela Churie Kallhauge, Safiatou Alzouma (AKallhauge@irena.org, SAlzouma@irena.org)

REmap Launch – IRENA's Global Renewable Energy Roadmap, 2016 Edition

17-18 March 2016

Berlin, Germany

The 2016 edition of REmap “Roadmap for a Renewable Energy Future” was launched at the Berlin Energy Transition Dialogue on 17 March 2016. The conference was attended by over 1000 government and industry representatives who convened to discuss latest developments in the renewable energy industry, and how countries can transition their energy systems to integrate increasing shares of renewable energy. The REmap launch included a presentation of the main findings of the report by the Director-General, as well as two press conferences. The report is the 2nd edition of a roadmap detailing how the world can significantly increase renewable energy in the global energy mix. It is based on engagement with 40 countries, representing 80% of global energy demand. The 2016 edition of REmap provided participants with insights into recent developments in the renewable energy field and an outlook on where the world is headed, towards 2030 and beyond. The REmap report and supporting documentation, including a slide deck, datasheets and methodology overviews, can be downloaded from www.irena.org/remap.

Contact: Deger Saygin, Nicholas Wagner (DSaygin@irena.org, NWagner@irena.org)

The 6th Middle East Renewable Energy Conference (MENAREC 6)

5 April 2016

Kuwait City, Kuwait

The 6th Middle East Renewable Energy Conference (MENAREC 6), the regional renewable energy conference organised in partnership with the Kuwait Institute for Scientific Research (KISR), the Energy and Building Research Centre (EBRC), the Federal Ministry of Economic Affairs of Germany (BMWi), IRENA, and a number of regional organisations, had a broad focus on policy, energy efficiency, technology, climate change, finance and international cooperation.

IRENA was involved in several aspects of the conference, including a one-day technical workshop on “Developing Bankable Power Purchase Agreements for Renewable Energy: A Technical Workshop for MENA Decision-makers”, organised together with KISR. The workshop highlighted the roles of contract parties and the key aspects of the effective deployment of power purchase agreements for renewable energy (RE PPA), as well as their aim to strengthen investor confidence and drive down transaction costs. The workshop brought together a selected group of renewable energy decision-makers from across the Middle East and North Africa. It provided an opportunity to exchange experiences and identify lessons learned regarding the development of RE PPAs, such as the need to establish capable regulatory bodies in the region as a necessary precondition for attracting timely and efficient investment through independent power producers (IPP).

Please find more information on the PPA workshop at this [link](#) and under <http://www.mena-rec6.com/>.

Contact: Jennifer DeCesaro (JDeCesaro@irena.org)

Capacity building programme on strategic long-term energy planning in the Kingdom of Swaziland

11-14 April 2016

Mbabane, Swaziland

As a post Renewables Readiness Assessment (RRA) advisory service, IRENA and the government of Swaziland launched a capacity building programme on strategic long-term energy planning, spanning a period of 10 months. The programme started with a kick-off meeting of half a day, which was followed by a three and a half day training where data availability was reviewed and tasks, timelines, and responsibilities were agreed upon among the local stakeholders. Around 60 local energy practitioners and stakeholders attended. The aim of this programme is to support experts and institutions from Swaziland to develop a long-term energy planning study, which is to be the quantitative basis for the Swaziland Energy Masterplan. The study will make use of a suite of planning tools developed and supported by IRENA.

Contact: Asami Miketa (AMiketa@irena.org)

The 2nd G20 Energy Sustainability Working Group (ESWG) Side-event: Implementation of G20 Toolkit of Voluntary Options for Renewable Energy Development

12 April 2016

Shenzhen, China

A workshop, organised in preparation for the second G20 Energy Sustainability Working Group under the Chinese Presidency, ESWG2 (13-14 April), focused on the implementation of the G20 Toolkit of Voluntary Options for Renewable Energy Development that was agreed on last year. The National Energy Administration of China invited IRENA to organise this meeting. The meeting was chaired by China and Germany, and attended by approximately 70 delegates. The agenda included discussions on IRENA's renewable energy technology cost reduction analysis, best practice studies, REmap 2030 findings, bioenergy programmes, and risk mitigation work. IRENA reported to the G20 countries on the progress and future actions associated with these five components and participants provided their feedback. The G20 delegates welcomed progress made and discussed how to make best use of the findings and the Toolkit in the international and national context.

Please find the IRENA presentation of the meeting at this [link](#).

Contact: Dolf Gielen, Yong Chen (DGielen@irena.org, YChen@irena.org)

Stakeholder Consultation Workshop in Support of Regulatory Approaches for Long-Term Electricity Resource Planning

18-19 April 2016

Swakopmund, Namibia

IRENA, together with the Regional Electricity Regulatory Association of Southern Africa (RERA) and the Electricity Control Board (ECB) of Namibia, organised a workshop to address ways to develop sustainable solutions for the electricity sector challenges in the South African Development Community (SADC) region. The workshop was conducted in support of an ongoing advisory service project, "Support of Regulatory Approaches for Long-Term Electricity Resource Planning". The aim of the project is to address gaps in procedures for long-term power system planning, investment selection, and implementation. The active contribution of all stakeholders at the workshop established a common knowledge base, which will facilitate further project implementation. The feedback gathered from the participants, demonstrated relevant buy-in and support for the project, allowing for further substantive engagement. A second workshop is planned to assess the preliminary results of the project and support the dissemination of final recommendations to relevant stakeholders in the SADC region and the national pilot countries (Namibia, Tanzania, and Zimbabwe).

Please find the agenda of the workshop at this [link](#).

Contact: Jennifer DeCesaro (JDeCesaro@irena.org)

Second Africa Climate-Resilient Infrastructure Summit (ACRIS)

20-21 April 2016

Addis Ababa, Ethiopia

The main organisers of this second Africa Climate-Resilient Infrastructure Summit (ACRIS), included the World Bank, the African Union Commission and the United Nations' Economic Commission for Africa and

IRENA. The meeting was organised at a ministerial level, preceded and followed by full-day technical workshops. It was attended by actors of the public and private sector, along with representatives of international and multilateral organisations. The purpose of the summit was to investigate how climate resilience matters are addressed by the infrastructure sector of the continent. The summit included discussions on food security, transport, energy and financing. The summit shed light upon issues surrounding the involvement of the private sector and the mitigation of risks concerning infrastructure-related investments in Africa.

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Recent Publications

Please click on each title below for more information and a link to download the relevant publication.

- [*REmap: Roadmap for a Renewable Energy Future: 2016 Edition*](#)
This second edition of IRENA's global roadmap provides an in-depth perspective on the energy transition in 40 economies, representing 80% of global energy use. It offers concrete technology options and outlines solutions to accelerate renewable energy growth. Doubling renewables in the global energy mix by 2030 is not only feasible, but cheaper than not doing so. Economic savings would far exceed the costs. It would create more jobs, boost economic growth and save millions of lives annually through reduced air pollution. It would also, when coupled with greater energy efficiency, put the world on track to keep the rise of temperatures within 2 °C, in line with the 2015 Paris Agreement. But to meet that goal, renewable energy deployment must happen six times faster than at current rates.
- [*Boosting Biofuels: Sustainable Paths to Greater Energy Security*](#)
Substantial potential exists to expand both food and fuel supply in a sustainable fashion. This report examines sustainable paths for biofuel development, including: boosting yields of food crops and residues; freeing up farmland through yield improvements; reducing losses and waste in the food chain; and freeing up pastureland through better livestock management. Further potential can be unlocked through afforestation with fast-growing trees; and through algae cultivation from organic waste or carbon dioxide. Policies that encourage such approaches will enhance global energy security, boost economic development and help limit global climate change
- [*Renewable Capacity Statistics 2016*](#)
This publication presents renewable power generation capacity statistics for the last decade (2006-2015). Renewable power generation capacity is measured as the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, the data reflects the capacity installed and connected at the end of the calendar year. A summary of recent developments in renewable power generation capacity can be found [here](#). The complete dataset from the year 2000 onwards is available for download on the [IRENA Renewable Energy Source of Information](#) (REsource), IRENA's knowledge portal.
- [*Wind Power \(IRENA-ETSAP technology brief\)*](#)
This joint IRENA and IEA-ETSAP technology brief examines the development of wind power. The size of wind turbines has continuously increased over several decades to boost power generation from this key renewable energy source. The brief notes, amongst others, how large-scale wind farms and larger turbines drive the ongoing reduction of electricity costs, how policy makers can reduce regulatory risks through wind power development and how wind developers can strengthen their investments.
- [*Renewables Readiness Assessment: Mongolia*](#)
This Renewables Readiness Assessment (RRA) identifies the actions needed to overcome barriers to renewable energy deployment. This report, prepared by IRENA in co-operation with the Mongolian Ministry of Energy, finds that Mongolia can use its vast renewable energy resources to bolster energy security, reduce pollution, meet global climate commitments and develop regional electricity exports. Electricity output from the country's solar and wind resources alone could reach 15,000 terawatt-hours per year, the RRA notes.

Forthcoming Publications

- *Scaling up Variable Renewable Power: The Role of Grid Codes*
- *Unlocking Renewable Energy Investment: The Role of Risk Mitigation and Structured Finance*
- *Renewable Energy Jobs: Annual Review 2016*
- *True Cost of Fossil Fuels: Saving on the Externalities of Air Pollution and Climate Change* (REmap brief)
- *The Power to Change: Solar and Wind Cost Reduction Potential until 2025*
- *Solar PV Costs in Africa*
- *End-of-Life Management: Solar Photovoltaic Panels*

Forthcoming Webinars

- [*IRENA Sustainable Energy Marketplace: Promoting Renewable Energy Investments in Developing Countries*](#)

This webinar is specifically tailored for investors and financiers, both public and private, who are interested in finding opportunities in the renewable energy sector in developing countries. During the webinar, IRENA will showcase how the marketplace works, how to identify investment opportunities according to specific investment criteria, how IRENA and its partner institutions can facilitate contacts and project development, and how to use other relevant information, tools and databases available on the marketplace.

Details: Monday, **16 May 2016 at 5:00 pm to 6:00 pm GST**. To join, please register at this [link](#).

- [*IRENA Training Webinar: Downloading and Exporting Data with Version 2.1 of The Global Atlas for Renewable Energy*](#)

This webinar will showcase the new version of the [Global Atlas for Renewable Energy](#), IRENA's online renewable energy mapping platform. The Global Atlas provides access to more than 2,000 datasets for free. For the first time, the platform now allows users to download selected datasets, and to print and export images. With these enhancements, the Global Atlas now comprises a complete suite of services to support initial renewable resource mapping and assessment, including an online GIS interface, datasets for five renewable energy technologies that cover every country in the world, online analysis tools, and the ability to export data and maps in several different formats.

This 1-hour webinar will include a discussion and demonstration of the following new features in the Global Atlas:

- Free data download feature for selected datasets
- Print and export maps and images
- Social media sharing
- Improved map search algorithm
- Fitness for use indicator

Details: Wednesday, **18 May 2016 at 7:00 pm to 8:00 pm GST**. To join, please register at this [link](#).

Highlights of the Director-General's Activities

Over the past two months, Director-General Adnan Z. Amin has engaged in numerous activities aiming at advancing the role of renewable energy in sustainable development and climate action (FrontOffice@irena.org).

IRENA International Lunch

On March 8, IRENA organised an International Staff Lunch at the Headquarters on the occasion of the one-year anniversary of the opening of the Headquarters building and International Women's Day. The Director-General expressed his appreciation to the United Arab Emirates for hosting IRENA and facilitating its mission. He also emphasized the Agency's efforts to ensure gender equality among its staff. In his speech, H.E. Dr. Thani Al Zeyoudi, Minister of Environment and Climate Change of the United Arab Emirates highlighted the Agency's rapid development and the global recognition it has gained in a short period of time.

Berlin Energy Transition Dialogue

On 17-18 March, the Director-General took part in the Second Berlin Energy Transition Dialogue, a meeting bringing together global leaders to discuss the challenges and solutions associated with long-term structural change in energy systems to integrate higher shares of renewable energy. The conference was opened with addresses by H.E. Mr. Frank-Walter Steinmeier, Federal Foreign Minister of Germany, and H.E. Mr. Sigmar Gabriel, Federal Minister for Economic Affairs and Energy, and brought together participants from 74 countries. The Director-General gave a speech and moderated a Ministerial Panel focused on how international cooperation can accelerate the growth of renewable energy. The Director-General highlighted progress in accelerating the global energy transition, including in Germany, and noted that policy frameworks, markets and technologies are converging in an unprecedented manner to make the global Energiewende a reality. At the Berlin Energy Transition Dialogue, the Director-General launched the second edition of REmap 2030, a roadmap to doubling the global share of renewable energy to 36% by 2030.

The 6th Middle East Renewable Energy Conference (MENAREC 6)

On 4 April, the Director-General travelled to Kuwait to participate in MENAREC 6. He delivered opening remarks at the conference, outlining the potential for renewable energy sources in the region, and the many benefits scaling up renewable energy deployment could bring, including meeting energy demand in a sustainable manner, reducing water consumption in the energy sector in a water-scarce region, and contributing to economic diversification and growth. He welcomed strides that have been made towards accelerating renewable energy deployment in countries such as Morocco and some countries in the Gulf, and noted that decisive action will be needed to unlock the region's full potential.

The Director-General's Mission to New York

On 20-22 April, the Director-General travelled to New York to take part in a number of high-level events:

- On 20 April, the Director-General spoke at a panel on "Global Voices on Climate Change and the Paris Agreement", organised by the Center on Global Energy Policy of the University of Columbia, with the participation of H.E. Dr. Thani Al Zeyoudi, Minister of Environment and Climate Change. In his remarks, the Director-General highlighted how doubling the share of renewable energy in the global energy mix could, coupled with energy efficiency measures, deliver the CO₂ emission reductions required to meet the targets of the Paris Agreement.
- In the afternoon of the same day, the Director-General took part in a roundtable, organised by the Council on Foreign Relations, which focused on the progress and challenges of renewable energy. During the roundtable, the Director-General outlined the strong business case for renewables, and described how the unprecedented deployment of renewable energy is significantly changing the global energy landscape.
- On 21 April, the Director-General participated in the 'High-Level Thematic Debate on Achieving the Sustainable Development Goals' (SDG), organised by the President of the UN General

Assembly. The Director-General moderated a policy session on achieving SDG7, and emphasized how IRENA's REmap 2030 initiative provides a roadmap to substantially scaling up renewable energy. The Director-General also moderated a discussion during the high-level luncheon on partnerships for implementing SDG7, where he highlighted the benefits of partnerships advancing renewable energy deployment as one of the priorities steering IRENA's work.

- On 22 April, the Director-General attended the signing ceremony for the Paris Climate Agreement which was attended, among others, by about 60 heads of state and government. The agreement was signed by 170 countries signalling decisive global action to limit climate change by reducing carbon emissions and scaling up the deployment of renewable energy.

Iceland Geothermal Conference

On 27-28 April, the Director-General participated in the Iceland Geothermal Conference in Reykjavik. With more than 600 participants from over 50 countries, this was Iceland's largest ever geothermal event and it presented an opportunity to build momentum for scaling up geothermal energy globally. During the conference, IRENA's ongoing work on the Global Geothermal Alliance was highlighted.

G7 Energy Ministerial in Japan

On 1-2 May, the Director-General participated in the G7 Energy Ministerial in Kitakyushu, Japan, where IRENA highlighted the benefits of cooperation on renewable energy among G7 countries. During the meeting, the G7 countries also agreed to increase investment into energy efficiency measures, which will be integral to achieving the targets set out in the Paris Agreement.

Visit to Beijing and Suzhou

On 3-6 May, the Director-General travelled to China for a number of high-level engagements, which included meetings with Vice Minister Liu Qi at the National Energy Administration in Beijing, as well as the Centre for New and Renewable Energy of China. He also visited to the city of Suzhou, which hosted the International Forum on Energy Transitions last year, and met with high-level officials there on taking cooperation on energy transition forward.

Additional Meetings

The Director-General has held additional meetings on different occasions, including the following:

- Mr. Ciarán Ó Cuinn, Director of Middle East Desalination Research Center (MEDRC), to discuss synergies between renewable energy and the desalination in the Middle East, given the region's growing water demand and high potential for solar energy to power desalination installations.
- H.E. Liborio Stellino, Ambassador of Italy to the United Arab Emirates and Permanent Representative to IRENA, to discuss the importance of cooperation on renewable energy within the African continent and the Italy-Africa Ministerial Conference that will be held in Rome on 18 May.
- Dr. Fatih Birol, Executive Director of the International Energy Agency (IEA), to discuss ways to cooperate on the nexus between renewable energy and energy efficiency.
- Mr. Ashok Alexander Sridharan, Lord Mayor of Bonn to discuss Bonn's international role in the context of climate action and the upcoming UN Habitat Summit in Quito in October.
- H.E. Mr. Murray McCully, Minister of Foreign Affairs and Trade of New Zealand, to discuss renewable energy deployment on islands and geothermal energy.
- H.E. Mr. Hommayon Qaiomi, Chief Advisor to the President of the Islamic Republic of Afghanistan, to discuss options for cooperation between IRENA and Afghanistan.
- Mr. Ilyas Mohammed-Salamovich Umakhanov, Deputy Chairperson of Russia's Federal Council, to discuss IRENA's engagement with parliamentarians and the aspiration of deputies of the Federal Council to increase renewable energy deployment in their respective regions, given the benefits it brings in terms of investments and job opportunities.

Forthcoming Activities to Highlight

IRENA Innovation Week: The Age of Renewable Power

10-13 May 2016

Bonn, Germany

IRENA's Innovation Week is gathering political and industrial frontrunners to discuss how technological, operational and systemic innovations in policy and business can interact and reinforce each other. This three-day event will be preceded by a day of site visits to laboratories and research institutes in and around Bonn. The IRENA Innovation Week is organised in collaboration with 12 partner institutions from industry, research and international bodies.

Please find the programme of the Innovation Week at this [link](#) and further information here: <http://www.irena.org/innovationweek2016/>

Contact: Ruud Kempener (RKempener@irena.org)

Mobilising Sustainable Bioenergy Supply Chains: Opportunities in Agriculture

17 May 2016

Rome, Italy

In cooperation with the International Energy Agency Implementing Agreement on Bioenergy (IEA Bioenergy), the United Nations Food and Agricultural Organisation (FAO), and Gestore Servizi Energetici (GSE), IRENA is organising a meeting on sustainable bioenergy supply chains. This workshop aims to build consensus on how bioenergy can boost energy security while supporting sustainable development. The sessions will focus on sustainable biomass potential, applications for biogas from agricultural residues, and strategies for jointly increasing food and fuel yields.

Contact: Jeffrey Skeer (JSkeer@irena.org)

11th meeting of the IRENA Council and related meetings

24-25 May 2016, with additional meetings on 23 and 26 May 2016

Sheraton Corniche Hotel, Abu Dhabi, UAE IRENA Headquarters, Abu Dhabi, UAE

IRENA's Council convenes twice per year, gathering the 21 Council members and other IRENA Members. Council meetings typically consist of two days of discussions about the Agency's present and future activities. On the side-lines of Council meetings, a number of thematic meetings are held, providing a platform for participants to have focused discussions on particular aspects of IRENA's work. The 11th meeting of the Council will cover a wide range of programmatic items, including discussions on the Agency's strategic direction towards the adoption of a new Medium-term Strategy at the IRENA Assembly in 2018.

On 23 May, the day before the 11th meeting of the Council, a number of meetings will be held at the Headquarters of IRENA. Members of IRENA will hold discussions in preparation of Council deliberations at meetings of the two subsidiary organs of the Council, the Administration and Finance Committee (AFC) and the Programme and Strategy Committee (PSC). Following the Committee meetings, a meeting on "Unlocking Renewable Energy Investment: The Role of Risk Mitigation and Structured Finance" will take place at 16:30. In the evening of 23 May, IRENA will be hosting a reception on the occasion of the 5th Anniversary of the Agency. You'll find an invitation [here](#).

Council documentation and information on additional meetings can be found on the [REmember](#) portal and in the emails previously circulated by the IRENA Secretariat.

Contact: Secretariat@irena.org

On the day following the Council, IRENA will be holding the Innovation Day at the IRENA Headquarters, bringing highlights of the IRENA Innovation Week in Bonn to Abu Dhabi. The objective of the meeting is to present the knowledge and technical tools developed by IRENA to support countries in fostering renewable energy innovations. The meeting will also serve to obtain feedback from Members on how to make these products more relevant for the membership.

The programme for the Innovation Day can be found at this [link](#).

Contact: Francisco Boshell, Ruud Kempener (FBoshell@irena.org, RKempener@irena.org)

Regional Expert Meeting on Climate Change and Renewable Energy in Central Africa

31 May - 1 June 2016

Libreville, Gabon

IRENA, in collaboration with the Economic Commission for Central African States (ECCAS), the African Development Bank (AfDB) and other partners, will organise a regional expert meeting on renewable energy and climate change in Central Africa, as part of a series of strategic dialogues in Sub-Saharan Africa. These meetings aim to bring together regional policy-makers and experts engaged in the field of energy and climate change, to facilitate the development of implementation strategies for the renewable energy targets of the Nationally Determined Contributions (NDCs).

Contact: Angela Churie Kallhauge, Safiatou Alzouma (AKallhauge@irena.org, SAlzouma@irena.org)

Side-meeting at the 24th European Biomass Conference and Exhibition (EUBCE) – Long-Term Prospects for Advanced Liquid Biofuels

7 June 2016

Amsterdam, the Netherlands

IRENA will be holding a meeting at the European Biomass Conference and Exhibition (EUBCE). EUBCE is a leading conference in the field, covering the entire value chain of biomass, and presents a platform to discuss the latest developments and innovations in the field. At this side meeting, IRENA will present the technological status and market prospects for the production of advanced liquid biofuels. The meeting will be drawing upon perspectives of leaders in energy project finance, biofuel industry and the aviation industry, for which advanced liquid biofuels will be vital to provide a sustainable long-term fuel supply. Panellists will discuss the key challenges to expanding the advanced biofuels market and how to meet them. Questions will be addressed such as what should be done to ensure an adequate supply of residues and other feedstock; what are the prospects for technology progress to reduce plant costs and raise feedstock yields; and what are the prospects for innovative products that could add to the value proposition of advanced biorefineries?

Contact: Jeffrey Skeer, Francisco Boshell (JSkeer@irena.org, FBoshell@irena.org)

ASEAN Clean Energy Corridor Consultative Workshop and RE Technology, Policy and Finance Capacity Building Workshops

13-15 June 2016

Bangkok, Thailand

IRENA is organizing a three-day regional meeting within the context of IRENA's engagement with the Association of Southeast Asian Nations (ASEAN) towards the achievement of their renewable energy targets for 2025, as well as Southeast Asian market integration. The first day of the meeting will be dedicated to a regional stakeholder consultation workshop for the ASEAN Clean Energy Corridor, with a view to engaging ASEAN governments and regional stakeholders to develop and implement an action plan for increased penetration of renewable energy in the region. The following two days will include two back-to-back capacity building workshops on biomass conversion technology development and on renewable energy policy and finance. The first workshop is organised jointly with the government of Thailand and the ASEAN Centre for Energy (ACE), the second with the government of Thailand and the Asian and Pacific Centre for Transfer of Technology (APCTT) of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP).

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EU PVSEC – Photovoltaic End-of-Life Management (PV EOL)

21 June 2016

Munich, Germany

IRENA, in collaboration with the International Energy Agency's Photovoltaic Power Systems Programme (IEA PVPS) Task 12, is releasing a joint publication on the 'End-of-Life Management of Photovoltaic Panels'. This report provides an international overview on the topic of regulatory and technological aspects, including case studies from the major global PV markets. To launch the report, a Photovoltaic End-of-Life Management (PV EOL) half-day workshop is being organised at the European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC). EU PVSEC will provide the ideal audience and platform for this launch, as major PV stakeholders, including governments and the private sector, will be present.

Contact: Henning Wuester (HWuester@irena.org)

Strategic Long-term Energy Planning in the Kingdom of Swaziland: First Training Course

27 June - 8 July 2016

Mbabane, Swaziland

As a post Renewables Readiness Assessment (RRA) advisory service, IRENA and the government of Swaziland launched a capacity building programme on strategic long-term energy planning, spanning a period of 10 months. The kick-off meeting was held in April this year. The aim of this programme is to support experts and institutions from Swaziland to develop a long-term energy planning study, which is to be the quantitative basis for the Swaziland Energy Masterplan. The study will make use of a suite of planning tools developed and supported by IRENA. During this first training course, participants will get acquainted with the System Planning Test (SPLAT) model for Swaziland which has been developed by IRENA. Participants will learn how to develop scenarios using the models, how to extend the models to include additional features, and how to develop a full-energy sector least-cost optimisation model to accommodate the policy needs of Swaziland.

Contact: Asami Miketa (AMiketa@irena.org)

Other IRENA News

Membership Update

Since the last Bulletin, **Saint Lucia** and **Thailand** have become Members of the Agency.

As of the issuance of this bulletin, **IRENA has 147 Members and 29 States in Accession to the IRENA Statute** ([link](#) to membership information).

Contact: Secretariat@irena.org

Permanent Representation Update

Currently 39 Members have accredited Permanent Representatives to IRENA.

These are: Algeria, Angola, Antigua and Barbuda, Bangladesh, Belgium, Bosnia and Herzegovina, Colombia, Cyprus, Denmark, Djibouti, Ecuador, Egypt, Ethiopia, Fiji, France, Germany, Greece, India, Iran, Iraq, Israel, Italy, Japan, Jordan, Kazakhstan, Latvia, New Zealand, Pakistan, Philippines, Poland, Senegal, Sierra Leone, Spain, Sudan, Tajikistan, Turkey, Uganda, United Arab Emirates and Uruguay.

Since the issuance of the last Bulletin:

- Uganda appointed H.E. Ambassador Irene Wekiya as Permanent Representative to IRENA. H.E. Ambassador Irene Wekiya presented her credentials to the Director-General on 13 March 2016.
- Bangladesh appointed H.E. Ambassador Muhammad Imran as Permanent Representative to IRENA. H.E. Ambassador Muhammad Imran presented his credentials to the Director-General on 13 March 2016.
- Fiji appointed H.E. Ambassador Kamlesh Shashi Prakash as Permanent Representative to IRENA, replacing H.E. Ambassador Ravindran Robin Nair. H.E. Ambassador Kamlesh Shashi Prakash presented his credentials to the Director-General on 12 April 2016.

A full list of accredited Permanent Representatives is available on the [REmember portal](#), along with coverage of the credentials ceremonies.

If you would like additional information on Permanent Representation to IRENA, please do not hesitate to contact Representation@irena.org.