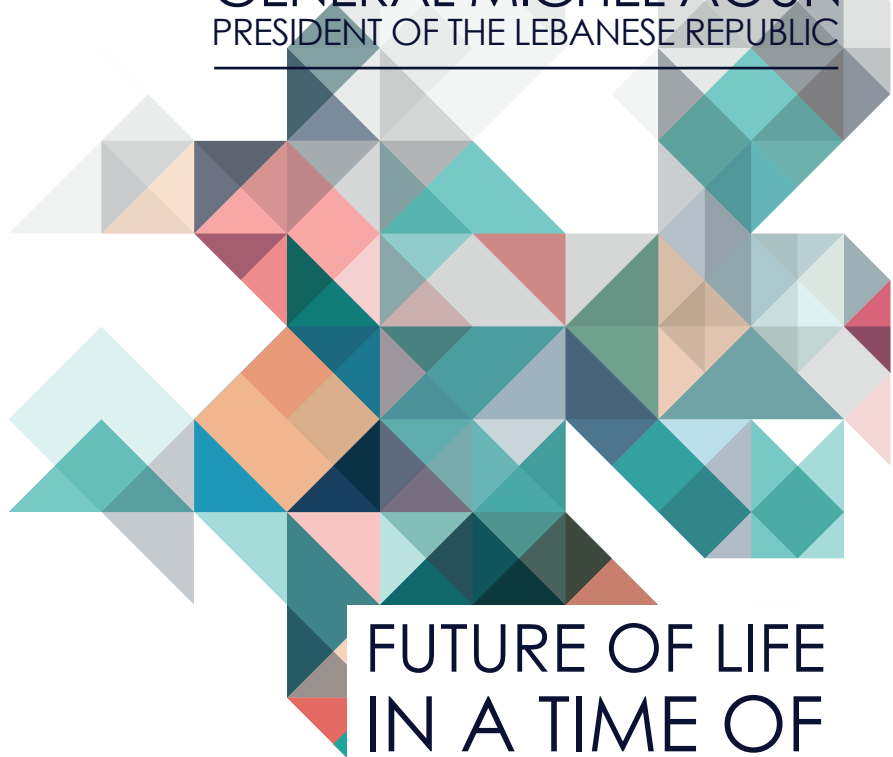




25 - 27 SEPTEMBER 2019
LE ROYAL HOTEL- DBAYEH

10th EDITION AGENDA

UNDER THE HIGH PATRONAGE OF HIS EXCELLENCY
GENERAL MICHEL AOUN
PRESIDENT OF THE LEBANESE REPUBLIC



FUTURE OF LIFE IN A TIME OF PLANETARY CHANGE

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MONDAY 23 SEPTEMBER 2019

10.00 – 17.00 **SIDE EVENT- DAY 1: OPPORTUNITIES FOR ACCELERATING RENEWABLE ENERGY INVESTMENT** 

Crystal Room

IN THE ARAB REGION

In partnership with IRENA, LAS, RCREEE and UNDP

By invitation only

[Details to be circulated in separate invitations]

The majority of renewable energy sources in the Arab region remains untapped despite recent efforts of countries to include greater shares of renewables in the energy mix. In 2017, total renewable energy investment in the region reached USD 11 billion compared to USD 0.3 billion in 2008. Despite the recent trends, massive capital investments are still required to meet the ambitious combined targets of 80 GW of capacity by 2030. IRENA, UNDP, LAS, RCREEE and LCEC are hosting this two-day event to examine the current financing landscape, identify key barriers and explore how innovative finance and risk mitigation solutions can serve to attract more private investment into the region.

TUESDAY 24 SEPTEMBER 2019

10.00 – 17.00 **SIDE EVENT- DAY 2: OPPORTUNITIES FOR ACCELERATING RENEWABLE ENERGY INVESTMENT** 

Crystal Room

IN THE ARAB REGION

In partnership with IRENA, LAS, RCREEE and UNDP

By invitation only

[Details to be circulated in separate invitations]

While the first day of the event focuses on exploring the investment outlook for renewable energy and highlights recent examples and experiences at the country-level, the event will aim during the second day to discuss the role of public finance, through blended finance, and the capital markets in supporting renewable energy and mobilising key market players to channel additional funding sources. There will also be a focus on green bonds and green sukuk with lessons learned for Arab countries.

09.00 – 17.00 **SIDE EVENT : CLIMATE-ENERGY-ECONOMY MODELLING**

The Polyvalent Room

In partnership with GIZ and RCREEE

By invitation only

[Details to be circulated in separate invitations]

The annual meeting of the MENA modelling network, gathering experts from all over the Mediterranean and Europe. Experts specialized in the climate-energy-economy models to meet for the first time in the capital city of Beirut.

09.00 – 16.00 **SIDE EVENT : TECHNICAL WORKSHOP BY GEF**

Ikebana Hall

In partnership with EBRD GEF

By invitation only

[Details to be circulated in separate invitations]

The Green Economy Financing Facility (GEFF) of Lebanon is a financing mechanism supported by EBRD, Taiwan ICDF, and Bank Audi. Thanks to the financial support of the Central Bank of Lebanon (BDL), GEFF offers subsidized loans in the energy efficiency and renewable energy sectors. This technical workshop by the GEFF team introduces the participants to the methodology followed to get subsidized loans, the technical input needed, and other related issues.

DAY ONE : WEDNESDAY 25 SEPTEMBER 2019

08.30 - 10.00 **REGISTRATION**

Main Lobby

DISTRIBUTION OF THE CONGRESS KIT & BADGES

All delegates are urged to collect the conference badges and bags at the IBEF 2019 registration booth at Le Royal Hotel main lobby. The conference bag includes the detailed agenda of the event and other special gifts. **Note: delegate badges are essential to access some sessions of the event.**

10.00 - 11.30 **OFFICIAL OPENING SESSION OF IBEF 2019** 

The Bank Audi Pearl Main Room

At a time when the energy leaders from all over the World are pushing towards the grand energy transition, the International Beirut Energy Forum 2019 presents itself as a beacon for change towards a better future. Held under the High Patronage of His Excellency the President of the Lebanese Republic General Michel Aoun, the IBEF focuses on "future of life in a time of planetary change". The official opening ceremony of the tenth edition of the International Beirut Energy Forum 2019 is expected to gather more than 1,000 participants.

Open to public

- ADDRESS OF **MP MR. NAZIH NAJEM** - HEAD OF THE PARLIAMENTARY COMMITTEE ON PUBLIC WORKS - TRANSPORTATION AND ENERGY- LEBANESE PARLIAMENT
- ADDRESS OF **H.E. MS. HALA ADEL ZAWATI** - MINISTER OF ENERGY AND MINERAL RESOURCES - JORDAN
- ADDRESS OF **H.E. MR. TAREK EL-MOULLA** - MINISTER OF PETROLEUM AND MINERAL RESOURCES - EGYPT
- ADDRESS OF **H.E. MS. NADA BOUSTANI KHOURY** - MINISTER OF ENERGY AND WATER - LEBANON
- **DISTRIBUTION OF ENERGY AMBASSADORS OF THE YEAR 2019 AWARDS**

11.30 - 12.30 **OFFICIAL OPENING CEREMONY OF THE EXHIBITION AREA OF IBEF 2019**

Ruby Ballroom

Visit the exhibition area of the 10th Edition of the International Beirut Energy Forum 2019, mingle with developers, bankers, solution providers, and decision makers. In presence of the Lebanese Minister of Energy and Water and the guest ministers of IBEF 2019, synergize with the energy leaders from across Lebanon, Europe, and the Arab World. Grow your business, create business links, and aim for a better sustainable future.

Open to public

SPONSORED BY: 

12.30 - 14.00 **SESSION 1A: CLIMATE-ENERGY-ECONOMY MODELING: SCENARIOS FOR DESIGNING A SUSTAINABLE ENERGY TRANSITION** 

The Bank Audi Pearl Main Room
In partnership with GIZ

Being faced with the obligations arising from the Paris Agreement, the looming impacts of climate change, and a rapidly rising energy demand at the same time, policy makers are forced to make decisions in an increasingly complex environment. Models combining climate, energy, and socio-economic aspects are able to assist in this process. In this session, we explore the benefits and limitations of using climate-energy-economy models for policy design as well as possible strategies for making high-quality modeling results more accessible to policy makers in Western Asia and Northern Africa.

Open to public

MODERATED BY: MR. ASHRAF KRAIDY - PLANNING DIRECTOR - RCREEE - SYRIA/ EGYPT

- Current State of Climate-Energy-Economy Modeling in the MENA Region: Research Results and Barriers by **DR. CHIHEB BOUDEN** - PROFESSOR - ECOLE NATIONALE D'INGÉNIEURS DE TUNIS (ENIT) - TUNISIA

DISCUSSION PANELISTS:

- **DR. CHIHEB BOUDEN** - PROFESSOR - ECOLE NATIONALE D'INGÉNIEURS DE TUNIS (ENIT) - TUNISIA
- **MR. ZIAD JEBRIL SABRA** - DIRECTOR - ASSISTANT SECRETARY GENERAL - MINISTRY OF ENERGY AND MINERAL RESOURCES - JORDAN



- **DR. MOHAMED SALAH EL SOBKI** - PROFESSOR - CAIRO UNIVERSITY - EGYPT
- **MS. RIM BOUKHCHINA** - SENIOR EXPERT - HEAD OF THE POLICIES AND TECHNICAL ASSISTANCE PROJECTS UNIT - RCREEE - TUNISIA/ EGYPT

Q&A

12.30 - 14.00

The BLF BANK
Azurea Main Room
In partnership
with LOI

Open to public

SESSION 1B: NATURAL GAS AS A MAIN PILLAR OF THE GRAND ENERGY TRANSITION

MODERATED BY: MR. MICHEL - ANGE MEDLEJ - ADVISOR TO THE MINISTER - MEW - LEBANON

- The Potential Role of Natural Gas in the Overall Energy Mix of Lebanon by **DR. JOSEPH AL ASSAD** - ADVISOR TO THE MINISTER - MEW AND DEAN OF THE FACULTY OF ENGINEERING -USEK - LEBANON
- Powering Lebanon forward : the path to Energy Security by **Mr. JOSEPH ANIS** - PRESIDENT & CEO - GE POWER - MENA & SOUTH ASIA
- Scenarios for the Use of Natural Gas in the Transportation Sector by **DR. MARC HADDAD** - ASSOCIATE PROFESSOR - SCHOOL OF ENGINEERING - LEBANESE AMERICAN UNIVERSITY (LAU) - , LEBANON
- Closing Note by **MR. SARKIS HLAIS** - GENERAL DIRECTOR - LEBANON OIL INSTALLATIONS - LEBANON

Q&A

12.30 - 17.30

Crystal Room
In partnership
with Friedrich-
Ebert- Stiftung
and RCREEE

Open to public

SIDE EVENT/ WORKSHOP : ENABLING WOMEN IN THE SUSTAINABLE ENERGY FIELD: A STEP TOWARDS SUSTAINABLE COMMUNITIES

The clean energy sector in the Arab World misses the full benefits of a diverse workforce. This workshop brings together diversified mix of speakers championing workplace diversity and inclusion to discuss the impact of diverse workforce and the needed steps to lay the ground for a stronger female engagement in the clean energy sector. It aims to pave the way for gender supportive actions and initiatives in the energy sector benefiting from participants' experiences to define roles, possible contribution and initiatives for a gender inclusive sector. Attendees will take a learning journey about the gender challenges in the clean energy sector from international, regional, and national scopes.

• OPENING STATEMENTS

- **MS. RONJA SCHIFFER**- PROGRAM MANAGER - CLIMATE AND ENERGY PROJECT - FRIEDRICH-EBERT-STIFTUNG
- **MS. MAHA MOSTAFA**- CHAIR EXECUTIVE COMMITTEE - RCREEE- EGYPT
- **H.E. MS. NADA BOUSTANI KHOURY** - MINISTER OF ENERGY AND WATER - LEBANON

SESSION 1: CAPITALIZING ON THE REGION BIGGEST ASSETS

MODERATOR BY MS. DIANA KAISSY - EXECUTIVE DIRECTOR - LOGI - LEBANON

- **MS. FATMAN M'SELMI BAKLOUTI** - CEO AND FOUNDER - LAUR'US CONSULTING - TUNISIA
- **MS. SARA IBRAHIM ELHAG** - SENIOR SUSTAINABLE ENERGY EXPERT - RCREEE - SUDAN
- **MS. MONICA MADUEKWE** - PROGRAM OFFICER - ECREEE - ECONOMIC COMMUNITY OF WEST AFRICAN STATES - NIGERIA

LUNCH BREAK

SESSION 2: INSPIRING STORIES AND INITIATIVES

MODERATOR BY MS. JAMILA MATAR - HEAD OF ENERGY DEPARTMENT - LEAGUE OF ARAB STATES

- **MS. LINA MOBAIDEEN** - PROJECT DEVELOPMENT MANAGER -JORDAN RENEWABLE ENERGY & ENERGY EFFICIENCY FUND - JORDAN
- **MS. NADA ZAAROUR** - PRESIDENT AND CO-FOUNDER - GREEN MIND - LEBANON
- **MS. ZAINAB GARASHI** - FOUNDER AND CEO - ENGINEERS WITHOUT BORDERS - KUWAIT
- **MS. SALMA EL SHIEKH** - CEO - SUDANESE ARTIK ENERGY START-UP- SUDAN

SESSION 3: A FUTURE OF OPPORTUNITIES

MODERATED BY MS. NOUHAD AWWAD - REGIONAL COORDINATOR - CLIMATE ACTION NETWORK ARAB WORLD - LEBANON

- **MS. CHRISTINE LINES** - EXECUTIVE DIRECTOR - GLOBAL WOMEN'S NETWORK FOR THE ENERGY TRANSITION - AUSTRIA
- **MS. SABRINA FAWAZ** - MANAGER - FES MENTORING PROGRAM - LEBANON
- **MS. PATIL MESROBIAN** - PROGRAMMES DEVELOPMENT OFFICER AND ENVIRONMENTAL SPECIALIST - SECRETARY OF THE FUTURE ENERGY LEADERS OF LEBANON (FELL-18) - LEBANON
- **MS. YASMEEN ORABY**- APSEY PROGRAM COORDINATOR - RCREEE - EGYPT

14.00 - 15.30

Le Jardin
or
Titanic

V.I.P. LUNCH

Check your badge to know in which restaurant you are.

Strictly restricted to delegates

SPONSORED BY:



15.30 - 17.30

The Bank Audi
Pearl Main Room
In partnership
with NEU

Open to public

SESSION 2A: SMART GRID APPLICATIONS: THE ACTUAL POTENTIAL FOR LEBANON

The global energy transition requires the integration of renewable energy systems at both the centralized and de-centralized levels. While large power plants, whether conventional or renewable, count on mostly on a PPP model, smaller renewable energy systems require the need for smart grids. This session focuses on the different applications of smart grids, and how could smart grids form the needed backbone for the development of the Lebanese electricity sector.

MODERATED BY: MR. SALIM EL BANNA - PROCUREMENT MANAGER - NEU - LEBANON

- An Overview of Debbas and NEUC by **MR. ZIAD DEBBAS** - CHIEF EXECUTIVE OFFICER - DEBBAS GROUP - LEBANON
- Evolution of the Smart Meters Project by **MS. CARLA AOUN** - CHIEF OPERATING OFFICER FOR ENERGY AND ENGINEERING - DEBBAS GROUP - LEBANON
- Technicalities and Potential applications of Smart Meters with NEUC by **MR. GALDER VIZCAYA** - HEAD - METERING BUSINESS UNIT- ZIV - SPAIN
- What the Expert Says by **MR. JAVIER HERNANDEZ FERNANDEZ** - TECHNICAL DIRECTOR OF IBERDROLA INNOVATION MIDDLE EAST- SPAIN
- Towards a Smart Grid in Lebanon by **MS. CARLA AOUN** - CHIEF OPERATING OFFICER FOR ENERGY AND ENGINEERING - DEBBAS GROUP - LEBANON
- Address of **MR. KAMAL HAYEK** - PRESIDENT OF THE BOARD & GENERAL MANAGER - ELECTRICITE DU LIBAN
- PPP Economy Based Model & its economic importance by **MR. CARLOS ABOU JAOUDE** - MANAGING PARTNER - ABOU JAOUDE & ASSOCIATES LAW FIRM

Q&A

15.30 - 17.30

The BLF BANK
Azurea Main Room
In partnership
with LSES

Open to public

SESSION 2B: THE EVER-EVOLVING SOLAR PHOTOVOLTAIC SYSTEMS APPLICATIONS

The applications of solar photovoltaic systems are evolving constantly. In partnership with the Lebanese Solar Energy Society (LSES), this session approaches the different applications of solar photovoltaic systems from a joint technical-business perspective, based on the latest developments in this sector.

MODERATED BY: MR. YOUSSEF GHANTOUS - PRESIDENT - LEBANESE SOLAR ENERGY SOCIETY - LEBANON

- Solar Pumping Systems: Design Considerations by **MR. YOUSSEF GHANTOUS** - PRESIDENT - LEBANESE SOLAR ENERGY SOCIETY - LEBANON AND **MR. ADNAN ZEIN** - SOLAR ENERGY EXPERT - LEBANON
- Power Management Solutions for Hybrid Projects by **MR. ALEXANDRE DAMIEN RABENAND** - TECHNICAL SUPPORT ENGINEER - DEIF MEDITERRANEA /FRANCE - MADAGASCAR/ FRANCE
- Renewable Energy as a Primary Source of Energy in Lebanon: Can we Use an Egyptian Model? by **MR. RABIH OSTA** - GENERAL MANAGER - PHOENIX ENERGY - LEBANON
- Block Chain Concept in Solar Photovoltaic by **MR. ELIAS AFEICHE** - SALES ENGINEER - MICROGRID SOLUTIONS AT ABB - SPAIN/ LEBANON

Q&A

SPONSORED BY:



17.30 - 18.00

COFFEE BREAK

18.00 - 19.30

The Bank Audi
Pearl Main Room
In partnership
with WEC

Open to public

SESSION 3A- ROUNDTABLE DISCUSSION : ENERGY LEADERS OF TOMORROW: FUELING THE LEBANESE ENERGY SECTOR WITH NEW PROMISING HORIZONS

The Future Energy Leaders of Lebanon (FELL-18) programme of the World Energy Council (WEC) Lebanon National Committee is based on the global FEL-100 programme. It is designed to inspire, grow and develop Lebanon's energy leaders of tomorrow. The FELL-18 programme builds on the creative ideas and the innovative potential of the next generation to challenge conventional thinking and explore new strategies for the future of our energy systems. Lebanon's FELL's meet in this session to present their work, paving the way for other young energy leaders to join.

MODERATED BY: MS. SARA JABER - FELL-18 MEMBER - SENIOR SUSTAINABILITY ENGINEER - ECOCONSULTING - LEBANON

- Opening Speech by **MR. OMAR AL KAAKI** - CHAIR OF THE FELL-18 PROGRAM - ELECTRICAL QS SPECIALIST - KVA SAL - LEBANON
- The Lebanon FELL-18 Programme BY **MS. YARA TANNOURY** - FELL-18 MEMBER - SALES AND PROPOSALS MANAGER - TRACTEBEL -ENGIE - UAE/ LEBANON
- Impacting the Grand Energy Transition: Role of the FEL-100 Program BY **MR. ANDREI COVATARIU** - FEL-100 BOARD MEMBER AND MEMBER OF THE STUDIES COMMITTEE - ROMANIA
- Impact of the 2019-2026 Electricity Plan on the Trilemma Index: A Monitoring Tool for Lebanon BY **MR. MARC AYOUB-TASKFORCE LEADER OF TRILEMMA TASKFORCE** - RESEARCH ASSISTANT- ENERGY POLICY AND SECURITY - AUB ISSAM FARES INSTITUTE FOR PUBLIC POLICY AND INTERNATIONAL AFFAIRS - LEBANON
- Lebanon Energy Hub: Empowering Energy Leaders of Tomorrow by **MR. TOUFIC RIZKALLAH** - TASKFORCE LEADER OF FELL-18 HUMAN CAPITAL TASKFORCE - SENIOR ENERGY CONSULTANT - GIZ - LEBANON
- Digitalizing the Electricity Infrastructure of Lebanon: The Road to a Smart Grid Until 2030 by **MR. FARID COMATY** - TASKFORCE LEADER OF FELL-18 DIGITALIZATION TASKFORCE - SENIOR ENERGY CONSULTANT - NAVIGANT - GERMANY

Q&A

18.00 - 19.30

The BLF BANK
Azurea Main Room
In partnership
with OEA

Strictly restricted
to delegates

SESSION 3B- ENERGY STORAGE: THE KEYWORD TO 5,000 MW RENEWABLES BY 2030

The Government of Lebanon has setup a target of 30% of renewable energy by 2030, which would translate into around 5,000 MW of renewable energy installations. Given the volatility of renewable energy sources, storage becomes a real necessity. This session tackles the main aspects of energy storage with focus on international practices and national ambitions.

MODERATED BY: MR. SAID RIACHI - PRESIDENT OF THE ELECTRICAL ENGINEERS BRANCH - ORDER OF ENGINEERS AND ARCHITECTS IN BEIRUT - LEBANON

- Lebanon's Policies to Develop Renewable Energy and the Actual Need for Battery Storage by **DR. JOSEPH AL ASSAD** - ADVISOR TO THE MINISTER OF ENERGY AND WATER AND DEAN OF THE FACULTY OF ENGINEERING AT HOLY SPIRIT UNIVERSITY OF KASLIK (USEK) - LEBANON
- A Lender's Perspective on Combining Solar PV and Energy Storage: Lessons Learnt from the Case of Jordan by **MR. GABRIEL DE LASTOURS** - ASSOCIATE DIRECTOR - SENIOR BANKER - ENERGY EMEA - SUSTAINABLE INFRASTRUCTURE GROUP - EUROPEAN BANK FOR RECONSTRUCTION AND DEVELOPMENT (EBRD) - FRANCE/ UK
- Full Solid Lithium Metal Polymer Batteries: A Suitable Solution for Lebanon Energy Needs by **MR. ANTOINE HUARD** - MANAGING DIRECTOR - "GÉNÉRALE DU SOLAIRE" - FRANCE

Q&A

DAY TWO : THURSDAY 26 SEPTEMBER 2019

09.30 - 15.30

The Bank Audi
Pearl Main Room
In partnership
with LPA

Open to public

SIDE EVENT : LEBANON PETROLEUM DAY

This special event will start with a ministerial panel to discuss the growing role of the East Med as a strategic oil and gas player and the importance of regional collaboration. The event will also be an opportunity to present an overview of the petroleum midstream and downstream activities and plans, as well as overview of a new economic sector, ongoing operations and what to look for in the near future. The event will finally include a town hall meeting for civil society organizations on EITI.

- **9.30-10.30: MINISTERIAL SESSION**
- **10.45-11.30: THE MIDSTREAM AND DOWNSTREAM SECTORS OF LEBANON**
- **11.30-13.00: THE UPSTREAM SECTOR IN LEBANON**
- **14.00-15.30: TOWN HALL MEETING FOR CIVIL SOCIETY ORGANIZATIONS ON EITI**

10.00 – 19.00

Safir meeting Room
In partnership with LAS

SIDE EVENT : MEETING OF THE ARAB ENERGY EFFICIENCY AND RENEWABLE ENERGY EXPERTS

The periodic meeting of Arab experts under the umbrella of the League of Arab States is dedicated to discussing the latest trends in energy efficiency and renewable energy in the Arab World. Gathering experts from the region, the meeting will focus on the Arab strategy for sustainable energy.

Closed Meeting by invitation only

10.00 – 11.30

The BLF BANK Azurea Main Room
In partnership with IMELS

Strictly restricted to delegates

SESSION 4A- GOING MANDATORY: ORDINANCE ON THE USE OF SOLAR WATER HEATERS AND HEAT PUMPS

This session will present the development of the solar water heater (SWH) market in Lebanon between 2012 and 2017, and the steps taken to make SWH installations mandatory all over Lebanon. Being an alternative to SWH's, heat pumps installations will flourish over the next few years, mainly thanks to the support of the Italian Ministry for the Environment, Land, and Sea (IMELS). What is the market potential for both technologies? What track is Lebanon following in that respect?

MODERATED BY: MR. ANDREI COVATARIU - FEL-100 BOARD MEMBER & MEMBER OF THE STUDIES COMMITTEE - ROMANIA

- Overview of the SWH Market 2012-2017 and Expectations for 2020 by **MR. TONY GEBRAYEL** - ENERGY ENGINEER - LCEC - LEBANON
- Environmental Progress in Building Regulations by **MR. RODOLPHE HADDAD** - ARCHITECT AND URBAN PLANNER - DIRECTORATE OF URBAN PLANNING - LEBANON
- Heat Pumps NEEREA Guidelines by **MS. GHADA RAHAL** - ENERGY ENGINEER - LCEC - LEBANON
- Technical Deep Dive: Guidelines for Design, Installation and Continuous Commissioning of Heat Pump Systems by **MS. MARICA FUMAGALLI** - ENGINEER - DEPARTMENT OF ENERGY - POLITECNICO DI MILANO (POLIMI) - ITALY

Q&A

10.00 – 11.30

Crystal Room

Strictly restricted to delegates

SESSION 4B- FIRESIDE CHAT: ALL YOU NEED TO KNOW ABOUT THE AKKAR 226 MW WIND FARMS

On 1 February 2018, the Government of Lebanon signed three Power Purchase Agreements (PPA's) with three wind farms developers. The Commercial Operation Date (COD) of the wind farms is expected by 1 February 2021. This session will address all the aspects of these projects through a fireside chat with Ms. Souraya Machnouk from Abou Jaoude & Associates Law Firm and Ms. Carol Ayat from Bank Audi.

In partnership with Sustainable Akkar (SA) and Lebanon Wind Power (LWP)

MODERATED BY: DR. MOHAMED SALAH EL SOBKI - PROFESSOR - CAIRO UNIVERSITY - EGYPT

A FIRESIDE CHAT WITH:

MS. CAROL AYAT - CFA - HEAD OF ENERGY - GROUP CORPORATE BANKING - BANK AUDI - LEBANON

MS. SOURAYA MACHNOUK - PARTNER - ABOU JAOUDE & ASSOCIATES LAW FIRM - LEBANON

Q&A

11.30 – 12.00

COFFEE BREAK

12.00 – 13.30

The BLF BANK Azurea Main Room
In partnership with IPTec

Open to public

SESSION 5A- THE GAS STATION OF THE FUTURE

With over 3,000 gas stations spread across the country, Lebanon needs to regulate and adjust the existing network of gas stations and to prepare for the upcoming phase which will bring significant opportunities to thrive and adopt innovative solutions in the fields of sustainability and technology. This session will examine future challenges and trends that will shape the sector in terms of sustainable practices to optimize energy efficiency, and advanced technologies that can enhance the customer's experience.

MODERATED BY: MS. AURORE FÉGHALI - DIRECTOR GENERAL - GENERAL DIRECTORATE OF OIL - MINISTRY OF ENERGY AND WATER - LEBANON

- Clean and Efficient Fuels and Potential Applications for Lebanon by **MR. MICHEL-ANGE MEDLEJ** - ADVISOR TO THE MINISTER- CO-SECRETARY OF THE LEBANON COMMITTEE OF WEC - MINISTRY OF ENERGY AND WATER - LEBANON
- Enhancing Customer Experience in Gas Stations: Future Design and Technologies by **MS. AYA ISSA** - GROUP PROJECTS COORDINATOR AND BOARD MEMBER - IPT GROUP - LEBANON
- Financing Green Gas Stations and Online Banking Services in Gas Stations by **MR. ANTOINE ZARIFEH** - HEAD OF BRANCH NETWORK DIVISION - FRANSABANK - LEBANON
- An Overview of IPT First Sustainable Gas Station by **ENG. JEAN-MARC ROCHE** - PROJECTS DEVELOPMENT MANAGER - IPT GROUP - LEBANON
- A 5-Minute Video Presentation of IPT Sustainable Gas Station

Q&A

12.00 – 13.30

Crystal Room
In partnership with ICE/ITA

Open to public

SESSION 5B- CASE STUDIES ON ITALIAN TECHNOLOGIES AND SOLUTIONS IN THE RENEWABLE ENERGY AND ENERGY EFFICIENCY SECTOR

More than 12 specialized companies from Italy will be represented at the IBEF 2019. Whereas the commercial exchange between Italy and Lebanon in the different fields of technologies is growing steadily, this session will shed the light on a number of technologies and solutions presented by Italian companies in the sustainable energy sector and which can be transferred to our region.

MODERATED BY: MS. FRANCESCA ZADRO - TRADE COMMISSIONER - ITALIAN TRADE AGENCY - ITALY/ LEBANON

Presentations and Discussion Panelists:

MS. ROBERTA DI LECCE - CHARGE D'AFFAIRES - EMBASSY OF ITALY - ITALY/ LEBANON

MR. FRANCESCO PALLOCCA - INVESTMENT PROMOTION EXPERT - UNIDO ITPO - ITALY

MR. ANTONIO PASSARELLI - EXTERNAL AND INTERNATIONAL RELATIONS - ANIMA - ITALY

MR. ALBERTO JR PELA - INTERNATIONAL RELATIONS - GESTORE SERVIZI ENERGETICI- GSE SPA - ITALY

MR. ANDREA GALLONI - EXPORT MANAGER - ATS2000 S.R.L. - ITALY

MR. ROLANDO BACHINI - PROJECT MANAGER - AG PLANT - AGRO-INDUSTRIAL PLANT - ITALY

MR. FABIO BOLOGNESI - BUSINESS DEVELOPMENT MANAGER - BRULLI SERVICE SRL - ITALY

MR. MARCO SANDRUCCI - HEAD OF ENVIRONMENT OPERATIONAL UNIT - PROJER SPA - ITALY

MR. PAOLO LIO - EXECUTIVE VICE PRESIDENT - PTSCLAS SPA - ITALY

MR. FRANCESCO PERLANGELI - SALES MANAGER, R.I. GROUP - ITALY

MR. STEFANO CURINI - AREA MANAGER, ROVATTI A. & FIGLI POMPE SPA - ITALY

MR. MARRICO FORNASIERO - AREA MANAGER - SIEL SPA - ITALY

MR. MATTIA SCHIESARO - SALES AREA MANAGER - ZECO DI ZERBARO E COSTA E C. SRL - ITALY

13.30 - 15.30

V.I.P. LUNCH - Standing Lunch - Ruby Exhibition Ballroom
Strictly restricted to delegates

14.30 - 19.00

Crystal Room
In partnership
with ICE/ITA

B-TO-B MEETINGS WITH ITALIAN DELEGATION

B2B meetings between Italian companies and Lebanese counterparts organized by the Italian Trade Agency in Beirut (ITA Beirut), offering business opportunities in Lebanon and elsewhere.

[Details to be circulated in separate invitations] *By invitation only*

13.30 - 17.00

The Polyvalent
Room
In partnership
with GIZ & RCREEE

SIDE EVENT DAY 2 : CLIMATE-ENERGY-ECONOMY MODELLING

The second day of the annual meeting of the MENA modelling network, gathering experts from all over the Mediterranean and Europe. Experts specialized in the climate-energy-economy models to meet for the first time in the capital city of Beirut.

By invitation only

[Details to be circulated in separate invitations]

16.00 - 17.00

The Bank Audi
Pearl Main Room
In partnership
with RCREEE &
UNDP

SESSION 6A- OFFICIAL LAUNCHING OF THE 2018 ARAB FUTURE ENERGY INDEX (AFEX)- RENEWABLE ENERGY EDITION

The Arab Future Energy Index (AFEX) is a policy assessment and benchmark tool that provides a detailed comparison of renewable energy and energy efficiency development in 17 countries of the Arab region with more than 30 different indicators. This session includes the official launching of the AFEX 2018- RE edition as developed by RCREEE in collaboration with UNDP, followed by a panel discussion with selected journalists.

Open to public

MODERATED BY: MS. REEM IRANI - ENERGY ENGINEER - LCEC - LEBANON

- Opening Note by **MS. MAHA MOSTAFA** - CHAIR, EXECUTIVE COMMITTEE - RCREEE - EGYPT
- Welcome Note by **MR. STEPHEN GITONGA** - REGIONAL SUSTAINABLE ENERGY SPECIALIST- UNDP - KENYA
- Results of the 2018 Arab Future Energy Index- RE Edition by **DR. MAGED MAHMOUD** - TECHNICAL DIRECTOR - RCREEE - EGYPT
- Panel discussion with leading energy and environmental journalists

Q&A

15.30 - 17.00

The BLF BANK
Azurea Main Room

*Strictly restricted
to delegates*

SESSION 6B- POWER WHEELING AND CONTRACTUAL ARRANGEMENTS

The widespread of distributed renewable energy systems in Lebanon will need a robust legal platform to allow different schemes of renewable energy integration to the grid like power wheeling, collective net-metering, and others. What are the bases for promoting distributed renewable energy generation in Lebanon? What are the main principles for the realization of projects using net metering in all its forms, peer-to-peer (distributed) renewable energy or trading through direct power purchase agreements? Focusing on regional and international experiences, this session aims at identifying a fast way forward for the country.

MODERATED BY: MR. HUSSEIN SALLOUM - SENIOR ENERGY SPECIALIST - COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION - LEBANON

- Power Wheeling Applications: Examples From the Arab Region by **DR. HAFEZ EL SALMAWY**- REGIONAL ENERGY EXPERT - EGYPT
- Lessons Learnt: Power Wheeling and the Role of Regulators by **DR. NIJAZ DIZDAREVIC** - SENIOR ENERGY/ELECTRICITY EXPERT- CROATIA
- Applying Power Wheeling, Collective Net-Metering and Other Schemes in Lebanon: A Legal Perspective by **MS. CHRISTINA ABI HAIDAR** - ATTORNEY AND SENIOR LEGAL EXPERT - LEBANON

Q&A

17.00 - 17.30

COFFEE BREAK

17.30 - 18.30

The Bank Audi
Pearl Main Room

*Strictly restricted
to delegates*

SESSION 7A- THE A-TO-Z OF LEBANON'S SOLAR POWER PURCHASE AGREEMENTS (PPA)

As Lebanon is heading towards having a large numbers of Power Purchase Agreements (PPA) for solar photovoltaic systems, this session will present all the main information related to the solar PPA. The session will cover the main structure of the PPA in addition to an analysis of how bankable is the PPA, while at the same time introducing the availability of funding for the upcoming projects in Lebanon.

MODERATED BY: DR. HASSAN HARAJLI - PROJECT MANAGER/ SENIOR ENERGY ADVISOR - UNDP - LEBANON

- The A-to-Z of Lebanon's Solar Power Purchase Agreements (PPA) by **MR. PIERRE EL KHOURY**- PRESIDENT OF THE BOARD/ GENERAL DIRECTOR - LCEC - MINISTRY OF ENERGY AND WATER - LEBANON
- From Wind to Solar: Main Legal Aspects of Lebanon's First PPA Model by **MS. SOURAYA MACHNOUK**- PARTNER- ABOU JAOUDE & ASSOCIATES LAW FIRM - LEBANON

Q&A

17.30 - 19.00

The BLF BANK
Azurea Main Room

In partnership
with the Government
of the Netherlands

*Strictly restricted
to delegates*

SESSION 7B- FUNDING CONCENTRATED SOLAR POWER (CSP) DEVELOPMENT

The National Renewable Energy Action Plan for Lebanon calls for the development of Concentrated Solar Power (CSP) technology. An in-kind contribution of 600,000 Euros will be used by the Netherlands Enterprise Agency to develop a full CSP feasibility study in the Hermel region based on a grant arrangement signed on 2 July 2019. This session will be an opportunity to present the different aspects of this initiative and launch the request for proposal of the tender for the provision of "Consultancy Services for The Development of a Concentrated Solar Power Plant in Hermel".

MODERATED BY: MS. CHANTAL AKL - HEAD OF INDUSTRIAL ZONES AND PARKS BUREAU - MINISTRY OF INDUSTRY - LEBANON

- Lessons Learnt From Implemented CSP Projects by **MR. FRANK WOUTERS** - DIRECTOR - EU-GCC CLEAN ENERGY TECHNOLOGY NETWORK - MENA CSP KIP PROJECT - NETHERLANDS/ UAE
- Sneak Peek on the Tender Requirements for the Provision of Consultancy Services for The Development of a Concentrated Solar Power Plant in Hermel- Lebanon by **DR. SORINA MORTADA** - UNIVERSITY PROFESSOR AND TECHNICAL ADVISOR TO THE LCEC - LEBANESE UNIVERSITY - LEBANON
- An Analysis of the First Set of Measured Weather Data in the Bekaa Region by **MR. CHRISTIAN BRAUN** - PROJECT MANAGER - FRAUNHOFER INSTITUTE FOR SOLAR ENERGY SYSTEMS ISE - GERMANY (TBC)

Q&A

09.30 – 11.00

The Bank Audi
Pearl Main Room
In partnership
with IPTEC & UNDP
Open to public

SESSION 8A- SPECIAL SESSION ENERGY AWARENESS AWARDS 2019

The "Energy Awareness Award" (EAA) recognizes public and private institutions and individuals (businesses, youth, start-ups, entrepreneurs and academia) for significant contributions to energy sustainability in Lebanon. Organized jointly by the United Nations Development Programme (UNDP) and the IPT Energy Center (IPTEC), this session will witness the announcement of the different winners of the 2019 EAA, including a presentation of the winning projects. A crew from MTV Lebanon will be recording the session to be aired later on.

MODERATED BY: MR. TOUFIC GEBRAN - MULTI-PLATFORM MEDIA EXPERT - PRODUCER AND MODERATOR - LEBANON

- Documentary about the Energy Awareness Awards (EAA)
- Address of **DR. TONI ISSA** - PRESIDENT - IPTEC - LEBANON
- Address of **MS. CÉLINE MOYROUD** - UNDP RESIDENT REPRESENTATIVE - CANADA/ LEBANON
- Address of **H.E. MS. NADA BOUSTANI KHOURY** - MINISTER OF ENERGY AND WATER - LEBANON
- Documentary about the Winning Projects
- Distribution of the Awards

09.00 – 17.30

The BLF BANK
Azurea Main Room
Open to public

SIDE EVENT : BEIRUT WATER DAY 2019

This special "Beirut Water Day" organized by the Ministry of Energy and Water brings leading national and international organizations with the purpose to reflect and propose solutions on the water sector in Lebanon, with special focus on water efficiency, sound water demand management, and optimization of water systems.

[Details to be circulated in separate invitations]

09.30 – 11.00

Crystal Room
In partnership
with LEEREFF
Open to public

SESSION 8B- NEEREA AND LEEREFF: INNOVATIVE FINANCING MECHANISMS FOR GREEN INVESTMENTS

More than 15 projects have been already submitted for financing under the LEEREFF financing mechanism. This session summarizes the different technologies and solutions that could be financed under LEEREFF, with special focus on energy efficiency and solar photovoltaic systems. The session also tackles the subject of blending LEEREFF and NEEREA financing. This session will also feature the launching of the Solar Photovoltaic Status Report for Lebanon in its 4th edition which will highlight the status and the growth of the solar market for 2018.

MODERATED BY: MR. ALI BERRO - LAWYER AND ENERGY EXPERT - LEBANON

- Green Loans for Green Investments by **MR. WERNER PEYLO** - LEEREFF TEAM LEADER/ KEY EXPERT - GFA - GERMANY
- Quick and Easy Wins in Energy Efficiency by **MR. GURHAN MAMAKLIOGLU** - LEEREFF INTERNATIONAL ENGINEER - GFA - TURKEY/ GERMANY
- Blending LEEREFF and NEEREA Financing by **MS. MELDA JABBOUR** - PROGRAMMES ENGINEER - LCEC TECHNICAL SUPPORT UNIT TO THE CENTRAL BANK OF LEBANON - LCEC - MINISTRY OF ENERGY AND WATER - LEBANON
- The 2018 Solar PV Status Report by **MR. WISSAM FARHAT** - ENERGY CONSULTANT - LEBANON

Q&A

09.30 – 11.00

The Polyvalent
Room
In partnership
with Fransabank
Strictly restricted
to delegates

SESSION 8C- ENERGY-EFFICIENCY LABELS FOR HOME APPLIANCES: DRIVING THE MARKET TOWARDS HIGH QUALITY PRODUCTS

As part of the continuous partnership between Italy and Lebanon, the Italian Ministry for the Environment, Land, and Sea (IMELS) has offered Lebanon a lot of support in the field of combating climate change. This session will focus on the national initiative on energy-efficient home appliances. More specifically, the session will be an opportunity to launch the grant component of this initiative, being a major milestone towards promoting energy efficiency labels according to European standards.

MODERATED BY: MS. ROSY HAJJ - HEAD OF ENGINEERING STANDARDS DIVISION - LEBANESE STANDARDS INSTITUTION (LIBNOR) - MINISTRY OF INDUSTRY - LEBANON

- Opening Note by **MR. EMANUELE D'ANDRASSI** - FIRST SECRETARY - ITALIAN EMBASSY IN LEBANON
- Overview of the Implementation of MEPS and Labels in the Region: Preliminary Results of the meetMED Project by **MS. SARA IBRAHIM ELHAG** - HEAD OF UNIT- SE PROJECTS' IMPLEMENTATION AND PRIVATE INVESTMENT PROMOTION - RCREEE - SUDAN/ EGYPT
- Scaling-Up Sustainable Cooling in the Middle East: The COOL_ME Project Contribution by **MS. KATJA EISBRENNER** - DIRECTOR - NAVIGANT ENERGY GERMANY GMBH - GERMANY
- Support to Sustainable Energy Finance by **MR. ANTOINE ZARIFEH** - HEAD OF BRANCH NETWORK DIVISION - FRANSABANK
- An Overview of the National Initiative on Energy-Efficient Home Appliances by **MS. IRÈNE BEUCLER** - ENERGY CONSULTANT - LCEC - LEBANON

Q&A

11.30 – 12.00

COFFEE BREAK

12.00 – 13.30

The Bank Audi
Pearl Main Room
Open to public

SESSION 9A- THE FUTURE OF GREEN FINANCING

Since 2010, the Central Bank of Lebanon (BDL) has initiated NEEREA, a national financing mechanism dedicated to offering subsidized green loans to the Lebanese market. With BDL's funding, NEEREA succeeded in creating a momentum that attracted international lenders and financing institutions. Key finance experts from the international community join this session to tackle the issue of green financing, pinpointing opportunities, risks, and scenarios for a better future of green financing.

MODERATED BY: MS. JOUMANA SAYEGH - ASSOCIATE DIRECTOR- ENGINEERING AND PLANNING - LCEC - LEBANON

- Green Financing: How It Can Boost Your Business? by **MR. MIROSLAV MALY** - ASSOCIATE DIRECTOR - GREEN ECONOMY FINANCING FACILITIES - ENERGY EFFICIENCY AND CLIMATE CHANGE TEAM - EBRD - UK
- Green Financing Solutions in the Support of Climate Resilient Investments by **MR. GEORGES ANDRAOS** - HEAD OF INTERNATIONAL BANKING DIVISION - FRANSABANK - LEBANON
- Partner for Sustainable Development: Green Financing Projects by Taiwan ICDF by **MR. ALEX L. J. SHYY** - DEPUTY SECRETARY GENERAL - TAIWAN ICDF - TAIWAN
- International Banks Commitment to Grow Sustainable Banking for a Positive Impact on Societies and Economies by **MS. LAYAL NABHAN** - PROFESSOR - ENERGY AND FINANCE - HEC PARIS SCHOOL OF MANAGEMENT AND VICE PRESIDENT - WHOLESALE CLIENT OFFICE- LARGE FRENCH CORPORATE AND INVESTMENT BANK - FRANCE/ LEBANON

Q&A

11.30 – 12.30

Crystal Room

Open to public

SPECIAL SESSION

CASE STUDY: SUSTAINABILITY FEATURES OF BANQUE LIBANO-FRANÇAISE NEW HEADQUARTERS

• Sustainability Features of the BLF New Headquarter by **MS. MIRNA BOUCHEDID** - ARCHITECT - BANQUE LIBANO-FRANÇAISE AND **MR. EDWARDS KEYROUZ** - SUSTAINABILITY MANAGER - SEEDS - LEBANON
Q&A

12.30 – 13.30

Crystal Room

Open to public

SESSION 9B- ENERGY EFFICIENCY IN BUILDINGS: FROM DESIGN TO OPERATION

Energy efficiency has always been described as the low-hanging fruit of sustainable energy, offering large potential for energy saving. This session presents actual and concrete case studies from energy efficiency projects achieved. The session will also offer a robust and thorough approach on how to save energy at the level of both existing and new projects.

- Energy Modeling in Architectural Design by **DR. SAMIR TRABOULSI** - PHD. - P.ENG. - ASHRAE FELLOW - CIBSE FELLOW - NEBB CERTIFIED PROFESSIONAL - SENIOR LECTURER AT THE AMERICAN UNIVERSITY OF BEIRUT - LEBANON
- BUILD ME, towards a Low - Carbon Building Sector in the MENA Region by **MR. MORITZ SCHÄFER** - ASSOCIATE DIRECTOR - NAVIGANT ENERGY - GERMANY

Q&A

11.30 – 13.00

The Polyvalent Room

In partnership with MEDREG

Strictly restricted to delegates

SESSION 9C- FIRESIDE CHAT: DEVELOPMENT OF ELECTRICITY REGULATION IN THE MEDITERRANEAN: PROSPECTS FOR LEBANON

What is the impact that the creation of an energy regulator could have on the Lebanese electricity market in terms of issue management and sharing of responsibilities? How electricity regulation can develop and evolve in Lebanon? This fireside chat with Dr. Nijaz Dizdarevic will bring more than 25 years of experience in East and South East Europe in the field of policy, legal, regulatory, and technical analysis of networks, systems, and markets, and would offer views to identify boundaries between energy policy and electricity regulation.

MODERATED BY: MR. RANI AL ACHKAR - DIRECTOR- ENGINEERING AND PLANNING - LCEC - LEBANON

- A fireside chat with **DR. NIJAZ DIZDAREVIC** - SENIOR ENERGY/ELECTRICITY EXPERT - CROATIA & **DR. ZOHEIR HAMED** - REGIONAL PROGRAMME OFFICER- ME & AFRICA- IRENA - ALGERIA/ UAE

Q&A

13.30 – 15.00

V.I.P. LUNCH Le Jardin or Titanic - Check your badge

Strictly restricted to delegates



15.00 – 16.30

The Bank Audi Pearl Main Room

Open to public

SESSION 10A- HYDROGEN, STORAGE, AND POWER QUALITY

In partnership with the IEEE IE/PE/CAS/PEL Lebanon Chapter, this session addresses the uses of hydrogen technologies in the energy sector, with special focus on the two main aspects of sustainable transportation and energy storage.

MODERATED BY: DR. HADI KANAAN - PROFESSOR - HEAD OF DEPARTMENT OF ELECTRICAL AND MECHANICAL ENGINEERING DEPARTMENT - SAINT-JOSEPH UNIVERSITY- ESIB - LEBANON

- Grid-Connected Charging Systems for Electric and Hybrid Vehicles; Impact on Power Quality and Grid stability by **DR. KAMAL AL-HADDAD** - PROFESSOR - ECOLE DE TECHNOLOGIE SUPÉRIEURE- MONTRÉAL - CANADA/ LEBANON
- Renewable Energy Storage Alternatives and the Hydrogen Generation Gas Turbine by **MR. KARIM OSSEIRAN** - SENIOR ENERGY EXPERT - MINISTRY OF ENERGY AND WATER - LEBANON

Q&A

15.00 – 16.30

Crystal Room
In partnership with BANK AUDI

Strictly restricted to delegates

SESSION 10B- STRUCTURING BANKABLE TRANSACTIONS IN THE RENEWABLES IPP SPACE

With more than 5,000 MW of renewable energy projects envisaged for Lebanon in the next 10 years, a large majority of these projects need to be built on a model of Independent Power Producers (IPP). This session approaches the issue of structuring bankable transactions in the renewable energy space, building on international experiences and practices in this sector, and offering the main elements needed to make the Lebanese RE market an attractive and viable space for foreign investments.

MODERATED BY: DR. JOSEPH AL ASSAD - ADVISOR TO THE MINISTER AND DEAN OF THE FACULTY OF ENGINEERING AT HOLY SPIRIT UNIVERSITY OF KASLIK - MINISTRY OF ENERGY AND WATER - LEBANON

- Elements of Bankable Transactions in the Renewables IPP Space by **MS. CAROL AYAT** - CFA - HEAD OF ENERGY - GROUP CORPORATE BANKING - BANK AUDI - LEBANON
- Requirements and Conditions of Bankability of Renewables Projects by **MR. MICHEL SCHEEPENS** - SENIOR INVESTMENT OFFICER ENERGY- WEST AFRICA AND MENA - FMO - THE NETHERLANDS
- Lessons Learnt in Developing RE Projects in Lebanon: An Investor's Perspective by **MR. SALAH TABBARA** - CHAIRMAN - GENERAL MANAGER - SUSTAINABLE AKKAR - LEBANON
- European Investment Bank Perspective by **MR. CORENTIN DE RICAUD** - INVESTMENT OFFICER - PROJECT FINANCE AND GUARANTEES - EU NEIGHBOURING COUNTRIES - EUROPEAN INVESTMENT BANK - LUXEMBOURG

Q&A

16.30 – 17.00

COFFEE BREAK

17.00 – 18.00

The Bank Audi Pearl Main Room

Strictly restricted to delegates

SESSION 11- CLOSING SESSION: OFFICIAL LAUNCHING OF THE SECOND ROUND BID TO BUILD 500 MW OF WIND FARMS IN LEBANON

On 1 February 2018, Lebanon witnessed the issuing of the first three licenses to build 226 MW of wind farms in Lebanon, thus marking the first three Power Purchase Agreements (PPA) in the history of the country. While the implementation works for the 226 MW wind farms are progressing as planned, Lebanon aims now at launching the second round to bid for 500 MW of new wind farms.

MODERATED BY: MR. WALID CHOUËIRI - LAWYER AND LEGAL EXPERT - LEBANON

- Official Announcement by **H.E. MS. NADA BOUSTANI KHOURY** - MINISTER OF ENERGY AND WATER - LEBANON
- Address of **MR. KAMAL HAYEK** - PRESIDENT OF THE BOARD AND GENERAL DIRECTOR - ELECTRICITÉ DU LIBAN - LEBANON
- Main Aspects of the Request for Proposals to Build 500 MW of Wind Farms in Lebanon by **MR. RANI AL ACHKAR** - SENIOR PROGRAMMES ENGINEER - LCEC - LEBANON

Q&A

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