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**RE** RENEWABLE  
ENERGY  
Congress **x**  
and Exhibit

**SEECON**  
Sustainable Energy Ecosystems  
International Conference

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Waterfront Hotel, Lahug, Cebu City | September 25-27, 2019

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# ROAD TO 100% RE

Energizing Development,  
Empowering People  
and Institutions



## ABOUT THE EVENTS & ORGANIZERS



This flagship project of the Center for Empowerment, Innovation and Training on Renewable Energy (CentRE) together with Friedrich Ebert Stiftung (FES) started in 2018. It is envisaged as the CentRE's contribution to the growth of renewable energy industry, particularly micro-renewables like rooftop solar in the country.

The annual event aims to provide venue for discussions on developments in the RE industry particularly on technologies and innovation, policies and good practices that will enhance or strengthen the expansion of RE use in the country, as well as address key barriers. It intends to contribute in raising awareness, enhancing capacities, and realization of better policies and partnerships among stakeholders through the plenaries and breakout sessions that will tackle RE policy, efficiency, access, financing, practices and innovations.

Target participants include CSOs, academe, national and local government units, industry players, communities, parishes, workers and the youth.

### Parallel to the RE Congress is the RE Exhibit

that aims to provide RE developers/technology providers, especially the smaller ones, the opportunity to showcase their projects and services and build linkages in a more affordable space.

The University of the Philippines -In-It/ Center for Environmental

Informatics is a partner in the RE Congress and Exhibit.



The Sustainable Energy Ecosystems International Conference that began in 2017, is organized mainly by the University of San Carlos School of Engineering and its Center for Research in Energy Systems and Technologies (CREST), together with academic center partners Sustainable Energy Research Group and University of Southampton. It covers multidisciplinary topics including, but not limited to, energy access, energy efficiency, renewable energy, and energy policy.

It serves as a venue where researchers and professionals from the academe, government agencies, and industries present their current researches and projects. The event provides opportunities for networking among peers, strengthening their collaborative linkages, and sharing of updates on energy-related issues.



The Center for Research in Energy Systems and Technologies (CREST) is a multidisciplinary research hub engaged in scientific and innovative undertakings towards better understanding of energy issues in the Philippines. The center aims to create sustainable technology-based, and deployable energy solutions appropriate to the Philippine context, giving emphasis to affordability, efficiency, and positive environmental impact.



The Center for Empowerment, Innovation and Training on Renewable Energy (CentRE) is a not-for-profit association of RE advocates, developers, researchers, experts and social impact investors pursuing full deployment of RE in the country to address energy poverty, high electricity rates, and climate change in a just, sustainable and democratic manner. With diverse expertise of its members – CSOs, private industry players, electric cooperatives, academic centers and individuals engaging on energy, climate, environment and good governance – the CentRE is envisaged as a hub for knowledge, social innovation, policy studies, advocacy and community empowerment towards achieving 100 percent renewable energy. Its goals: RE-CLAIM – realize **RE** through **C**apacity building, **L**inkages, **A**dvocacy, **I**nnovation and **M**obilization.



The Friedrich-Ebert-Stiftung (FES) is a private, not-for-profit, public interest cultural-educational foundation in Germany committed to the ideals and basic values of social democracy. With headquarters in Berlin, FES has been active in the Philippine since 1964. In its cooperation with civil society organizations, labor groups, the academe, and the government, it seeks to contribute in consolidating democratic institutions and in strengthening an inclusive political system and a people-centered economic development.

# PROGRAMME

25 SEPTEMBER 2019

- 8.00 - 9.00      Registration
- 9.00 - 9.05      Invocation / Philippine National Anthem
- 9.05 - 9.10      Welcome Remarks**  
**Fr. Aleksander Gaut, SVD**  
VP for Academic Affairs, University of San Carlos
- 9.10 - 9.20      Opening Remarks**  
**Dr. Johannes Kadura**  
Resident Representative  
Friedrich Ebert Stiftung (FES) – Philippines
- 9.20 - 9.30      RE Congress and Exhibit: From 2018 and Moving Forward**  
**Atty. Cecilia Dalupan**  
President, Center for Empowerment, Innovation and  
Training on Renewable Energy (CentRE)  
COO and General Counsel, Wegen Distributed Energy
- 9.30 - 9.40      **Rationale and Setting the Tone**  
**Prof. Dr. Evelyn Taboada**  
Dean, School of Engineering  
University of San Carlos
- 9.40 - 10.40      Keynote Addresses: RE towards sustainable  
development**  
**Undersecretary Felix William Fuentesbella**  
Power, Renewable Energy, Media Affairs & Spokesperson  
Department of Energy  
**Engr. Jose "Viking" Logarta**  
Energy Policy Advisor, Institute for Climate and Sustainable Cities  
Chairperson, CentRE Board of Directors

10.40 - 12.00

## **Plenary Session: Just Transition and Energy Democracy**

*How the Philippines and other countries are preparing for the shift from a high carbon to a low carbon economy – making sure that no one is left behind in the transition process. This session seeks to present perspectives on why and how just energy transition should be part of sustainable development framework; it will also look into the affected sectors, existing policies, challenges including financing, and roadmap towards Just Transition.*

### **Introduction and Moderator:**

Mr. Wilson Fortaleza

Fellow, Center for Power Issues and Initiatives

### **Panel**

#### **Mr. Patrick P. Patriwirawan Jr.**

OIC Director, Institute for Labor Studies

Department of Labor and Employment

#### **Mr. Arnold Grant Belver**

Senior Research Specialist,

Climate Change Commission of the Philippines

#### **Dr. Georg Maue**

Senior Expert on Energy Efficiency Policy

Federal Ministry for Economic Affairs and Energy,

German Embassy in Manila

#### **Mr. Francis Joseph dela Cruz**

Partnerships and Advocacy Officer,

Institute for Climate and Sustainable Cities

12.00 - 12.20

Open Forum

12.20 - 12.30

### **Ribbon Cutting: Opening of RE Exhibit**

Introduction by

Mr. Erel Narida

President, Renewable Energy Association of the Philippines

**12.30 - 13.30**

**LUNCH BREAK / Exhibit**

**13.30 - 15.00**

**Plenary Session: Energy Policy**

*This session looks into the implementation of Renewable Energy Law and on evolving new energy policies; what are the gaps, challenges and policy recommendations towards acceleration of RE deployment and increasing people's access to clean and renewable energy.*

**Introduction and moderator:**

Engr. Jose "Viking" Logarta,  
Energy Policy Advisor, Institute for Climate and Sustainable Cities;  
Chairman of the Board, CentRE

**Panel**

**Ms. Sharon Montaner**

ERC Chief Energy Regulations Officer – RE Division  
Energy Regulatory Commission

**Prof. Rowaldo del Mundo**

Vice President, TRANSCO  
Professor, Institute of Electronics and Electrical Engineering  
University of the Philippines, Diliman, Quezon City

**Atty. Abeleon Damalario**

Chief of Staff and Representative  
of Congressman Edgar Chatto, 1<sup>st</sup> District of Bohol  
and Chair of the Climate Change Committee  
House of Representatives

**Mr. Lorenzo Ubalde**

Municipal Administrator /  
Representative of Mayor Alfredo Cielo, Jr.  
Local Government of Irosin, Sorsogon

**15.10 - 15.30**

Open Forum

**15.30 - 15.40**

**Exhibit and Poster Presentation**

15.40 - 17.20

**Plenary Session: Energy Efficiency**

*Challenges and ways forward v.v. measures on energy efficiency*

**Introduction and Moderator:**

Engr. Menandro Berana, PhD.

Associate Professor, Institute for Mechanical Engineering,  
University of the Philippines - Diliman

**Panel**

**Mr. Jesus Anunciacion**

Director III, Energy Utilization and Management Bureau,  
Department of Energy

**Dr. Michael Lochinvar Abundo**

Nanyang Technological University,  
University of San Carlos

**Ms. Josephine Mangila-Tioseco**

Technical Adviser Energy Efficiency,  
European Union-Access to Sustainable Energy Program

**Engr. Alberto Dalusung III**

Member, National Renewable Energy Board  
Director, Preferred Energy, Inc. (PEI)

**Ms. Theresa Acedillo-Lapuz**

Trustee, Treasurer and Policy Committee Member  
Philippine Energy Efficiency Alliance (PE<sup>2</sup>)

**Ina Alleco Silverio & Paolo Geidt**

WeGen Marketing and Social Transformation Team

17.20 - 17.40

Open Forum

17.40 - 18.00

Exhibit

## 26 SEPTEMBER 2019

- 8.00 - 9.00            Registration
- 9.00 - 9.05            Invocation
- 9.05 - 9.10            Welcome and Recap of Day 1**  
Dr. Luzvisminda Bellotindos  
Director, Center for Research on Energy Systems and  
Technologies
- 9.10 - 9.30            **Messages**  
**Rev. Fr. Murphy Sarsonas**  
Archdiocesan Commission on Environmental Concerns
- 9.30 - 10.20           **Keynote Addresses**  
**Prof. Nobumasa Sekishita**  
International Cooperation Center for Engineering Education  
Development (ICCEED), Toyohashi University of Technology  
**Dr. Majbaul Alam**  
Research Fellow, Sustainable Energy Research Group  
University of Southampton
- 10.20 - 12.00        Plenary Session: Energy Access**  
*Issues, challenges and solutions to clean energy access. How can  
RE address energy poverty – make electricity available, affordable,  
reliable, and sustainable?*  
**Introduction and Moderator:**  
Prof. Nelson Enano  
Coordinator, Center for Renewable and Appropriate Technologies  
-Ateneo de Davao University;  
Coordinator, Mindanao Renewable Energy Center
- Panel**  
**Dr. Danilo Largo**  
Director of Energy Research, University of San Carlos

**Engr. Roberto Verzola**

Chair, Center for Renewable Energy and Sustainable Technologies

**Engr. Ernesto Silvano Jr.**

Department Head, Total Electrification and Renewable Energy Development Department (TEREDD), National Electrification Administration (NEA)

**Dr. Josef T. Yap**

Senior Technical Advisor  
ASEP-Clean Energy Living Laboratories Project

**Mr. Dann Diez**

Executive Director, SEED4COM

**12.00 - 12.30**

**Plenary Session: Technology Solutions by Technopreneurs**

*Technology providers and startups will share the enterprises' and technopreneurship's contribution in the expansion of RE in the country*

**Exhibitors:** ICSC, WeGen, OREEI, BREA, TUSC, Suntech Power, Physics Research, UBM Exhibition, Green Lighting Corp.

**Ryan Tan Yu**, MataVerse

**Brenda Valerio**, New Energy Nexus

**12.30 - 13.30**

**LUNCH BREAK / Exhibit**

**13.30 - 15.00**

**BREAKOUT SESSIONS**

Presentation of academic papers, and some RE practices and innovation

Hall 1: **Renewable Energy Technologies**

Session Chair: Engr. Francis Dave Siacor (USC)

Prof. Nelson Enano - Harnessing Tidal Energy

Ms. Wnyville Galang - Bioenergy potential from Bohol's agricultural residues

Mr. Alan Rey Calacad - Domestic water production using slope solar still with designed cooling fins for remote island community

Mr. Christ Quicot - Milk pasteurization using low temperature geothermal fluid in Dauin, Negros Or.



## Hall 2: **Energy Access**

Session Chair: Engr. Albert Banacia (USC)

Mr. Erel Narida, OREEI - energizing Malalison, Antique

Ms. Irene Lara Abad - Performance comparison of diesel engine waste heat recovery

Mr. Isabelo Rabuya - electricity access in 3 small islands without government subsidy

Mr. Jaybee Lacea - Performance evaluation of existing centralized microgrid using STEEP approach

Engr. Rene Fajilagutan - Romblon experience

15.00 - 15.30 Exhibit and Poster Session

## **15.30 - 17.00 BREAKOUT SESSIONS**

Presentation of academic papers, and some RE practices and innovation

### Hall 1: **Energy Policy**

Session Chair: Engr. Fritz Nichole Abad (USC)

Engr. Roberto Verzola - access to RE in Quezon

Ms. Marianne Eleanor Catanyag - Development strategies for tidal stream energy to power off-grid areas

Mr. Dave Pojadas - Delphi-based multicriteria group decision-making framework for RE dev't

Mr. Gerardo Verzosa - Benguet Electric Cooperative experience

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### Hall 2: **Energy Efficiency**

Session Chair: Engr. Mark Anthony Cabilo (USC)

Hon. Nestor Archival, LGU-Cebu- energy-efficient home

Arch. Lui Daya, GAAP - green architecture

Ms. Christy Canete - design and performance evaluation of a low-power, wireless sensor node for precision-farming application

Ms. Estrella Macabutas- Assessment of long-term heat index as an implication of climate change

17.00 - 17.30 Exhibit

## 27 SEPTEMBER 2019

8.00 - 9.00 Registration

9.00 - 9.05 Invocation

**9.05 - 9.10 Welcome and Recap of Day 2**

Mr. Jason Nieva

Director, Technology Transfer and Business Office

University of the Philippines - Cebu

9.10 - 9.20 **Messages**

**Hon. Antonio Cuenco**

Chair, Committee on Energy

Cebu City Council

**9.20 - 11.00 Plenary Session: Financing Renewable Energy**

*Practitioners and finance experts shall tackle market dynamics, investment requirements, and policies that may hinder or facilitate access to RE financing. This session will tackle the trends, programs, and other financial aids that can be utilized by stakeholders to increase their financing without sacrificing their own return on investment.*

**Moderator:**

**Dr. Buenaventura Dargantes**

Professor, Visayas State University

Coordinator, Eastern Visayas Sustainable Energy & Industrial Policy - SUC Network

**Panel**

**Mr. Mike de Guzman**

President, Solaric;

Vice President for Commercial and Industrial Roof,  
Philippine Solar and Storage Energy Alliance (PSSEA)

**Engr. Generoso David**

Assistant Vice President, Program Management Department II  
Land Bank of the Philippines

**Ms. Kathleen Lungub**

Knowledge Management, Advocacy & Comm. Officer  
Foundation for Sustainable Societies, Inc.

**Engr. Eugene Araullo**

MERALCO Power Academy/MSpectrum

**Mr. Rustico Noli Cruz**

Senior Assistant Vice President  
Development Bank of the Philippines

**11.00 - 12.00**

**Keynote Addresses**

**Hon. Pablo John Garcia**

Deputy Speaker for Visayas  
House of Representatives

**Hon. Sherwin Gatchalian**

Senator, Senate of the Philippines  
Chair, Senate Committee on Energy

12.00 - 12.20

Open Forum

12.20 - 12.30

Exhibit

12.30 - 13.30

LUNCH

13.30 - 14.30

**Brown Bag Discussion/World Cafe (Project Pitch)**

Partnerships and Collaboration on RE Projects/Just  
Energy Transition

**Table 1:** Realizing affordable and reliable electricity by tapping indigenous RE sources and LGU-CSO-private sector partnerships -Sorsogon/Irosin (Hosts: LGU-Irosin, LIKAS, CREST)

**Table 2:** Piloting a Renewable Energy Academy for professionals, non-professionals, academe, and youth (Hosts: Polytechnic University of the Philippines, Central Philippine University, CREATE-AdDU)

**Table 3:** Ensuring reliable and affordable electricity in rural electric cooperatives and off-grid areas/islands (Hosts: ROMELCO, ICSC, OREEI, CPII)

**Table 4:** Developing Industrial Policy integrating RE – collaboration between government, academe, and industry (Host: Eastern Visayas Sustainable Energy and Industrial Policy - SUC Network)

**Table 5:** Exploring Local RE project in Cebu/Visayas stakeholders (Host: WeGen Distributed Energy)

14.30 - 15.00

### **MOVING FORWARD**

**Center for Renewable Energy and Sustainable Technologies, University of Eastern Philippines, Action for Economic Reforms-IPT: Memorandum of Understanding to cooperate on RE deployment in Northern Samar**

**Mr. Chatch L. Calderon**

Center for Youth Participation and Development Alternatives

**Dr. Michael Lochinvar Abundo**

Program Manager, College of Engineering, Nanyang Technological University, Singapore; Adjunct Professor, University of San Carlos

15.00 - 15.30

### **COMPACT/COVENANT SIGNING**

Led by The Center for Empowerment, Innovation and Training on Renewable Energy (CentRE)

15.30 - 16.00

### **CLOSING REMARKS**

Mr. Erel Narida

Executive Committee Officer

CentRE

Fr. Narciso Cellan, Jr.

Assistant VP for Academic Affairs, USC

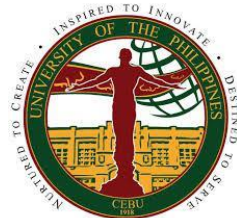
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International Conference

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Center for Research in Energy Systems and Technologies

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[centreph2018@gmail.com](mailto:centreph2018@gmail.com) | <http://thecentre.ph>

FB: [TheCENTREPhilippines](#)



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Sustainable Energy  
Research Group (SERG)

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