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Tennessee Renewable Energy and Economic Development Council

# TREEDC NEWSLETTER, OCTOBER 2015

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## TREEDC Returns to Crossville for Educational Forum



JENILIND BRINKMAN, TDEC AND  
TREEDC PRESIDENT/DUNLAP MAYOR  
DWAIN LAND

On September 9, 2015, TREEDC held a forum in Crossville. The theme of the forum was “Conserving the City’s Energy Footprint”. TREEDC Founding members Hannah Solar, PHG Energy and NORESKO gave various presentations relating to ways that the City of Crossville could lower their energy costs. James Talley of Hannah Solar discussed innovative ways for local government to leverage solar energy with operational energy savings. Brian Stone of NORESKO described the energy service approach of implementing energy efficiency upgrades through applied savings due to lower electrical and water consumption of the city’s infrastructure. Mike Webb of PHG Energy reviewed the successes of their project for the City of Covington, Tennessee which transforms their waste sludge and yard waste into synthetic natural gas for electrical generation onsite. PHG Energy has also started a similar project for the City of Lebanon, Tennessee.

TDEC Contracts and Grants Director Jeni Lind Brinkman discussed funding and grants opportunities associated with Clean Tennessee Energy Grants. The State is entering the final year of this 5 year program which has provided millions of dollars in energy improvements to local governments across the state.

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## MTAS and TREEDC Promote Local Governance for Philippine Cities

The University of Tennessee MTAS Management Consultant/TREEDC Director Warren Nevad met with municipal officials from Valenzuela and Cabatuan to share Tennessee’s best management practices in renewable energy and local governance. Philippine Congressman Sherwin Gatchalian, Pasig City University President Dr. April Alcazar, and University of Valenzuela President Dr. Nedena Torralba accompanied Nevad with the tour at city hall and the Bulucan Province. Plans were made to assist the communities in Bulucan with renewable energy projects and educational awareness.

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From left: Congressman Sherwin Gatchalian; Valenzuela Councilman Mariano Villalobos; Cabatuan Mayor Ronilo Caspe; The University of Tennessee MTAS Consultant Warren Nevad; Pasig City University President Dr. April Alcazar; University of Valenzuela President Dr. Nedena Torralba and Valenzuela Councilman Ramon Encarnacion

## Business and Industry Leaders Discuss Waste Reduction with TREEDC Member Memphis- Shelby County Office of Sustainability

On September 14, 2015, leaders in business and industry met to discuss “circular economy” in which waste materials or by-products can be reused in the manufacturing process of another business. Memphis-Shelby County Office of Sustainability and TN Department of Environment and Conservation (TDEC) convened 24 business leaders from across Shelby County at International Paper’s Global Headquarters for a round table discussion on working together to address waste stream challenges facing all organizations large and small.

Businesses in attendance included International Paper, FedEx, Valero, American Snuff, Flextronics, Nucor Steel, NSK Steering Systems America, Cummins, Marvin Windows and Doors, RAPAC, Sharp, CRG Sustainable Solutions, and Rainmaker Strategic Management.

US Business Council for Sustainable Development of Texas addressed the group about forming a business-to-business material reuse program in Tennessee. Currently, the US BCSD is facilitating or developing regional networks in Texas, Michigan, Ohio, and Colorado. “Bringing companies together to share information about internal material flows opens the door to tremendous business opportunities,” said US BCSD

Executive Director Andrew Mangan. “The growing wave of interest in circular economy solutions, where materials are repurposed, reused and recycled, is scaling up around the world, and Memphis is positioned to help lead this wave.”

The US BCSD is a non-profit association of businesses launched in 2002 whose purpose is to create and deliver value driven sustainable development projects in the United States. Projects are member-led and designed to create value through economic returns and environmental and social benefits.

Christine Donhardt, Senior Planner of the Office of Sustainability added that the office “looks forward to hosting future roundtable discussions with business and industry on waste stream, energy and water efficiency, and other environmental topics.”

Vaughn Cassidy, TDEC representative with the Office of Sustainable Practices, is credited with elevating the awareness of the need of a material recovery program in Tennessee and bringing US BCSD to the table. He added that “it has been my passion for many years to find ways to reuse by-products in a business-to-business format.”

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## TREEDC Continues to Open More Doors in Renewable Energy in the Philippines



Catanduanes State University (CSU) and TREEDC signs Memorandum of Agreement on July 20, 2015. From left: Dr. Aurora Araojo, CSU Vice-President, TREEDC President Land, CSU President Dr. Minerva Morales and Warren

The Tennessee Renewable Energy & Economic Development Council (TREEDC), a statewide grassroots renewable energy organization of 96 Tennessee mayors formed by the University of Tennessee Institute for Public Service in 2008, conducted another successful trade visit with its Philippine stakeholders across the Luzon, Visayas and Mindanao regions from July 15 to July 31. TREEDC started its International Exchange program in the Philippines with the Renewable Energy Association of the Philippines in 2012. During this recent visit, TREEDC entered into Memorandums of Agreements of technical assistance and educational capacity building with Catanduanes State University, San Beda College and Central Mindanao State University during the Philippine Association of Program Implementers Association (PAEPI) Annual Conference in Manila. TREEDC and the University of Tennessee Municipal Technical Advisory Service (MTAS) also shared best practices in municipal governance with a host of cities across the Philippines.

TREEDC was joined by Hannah Solar, Farmer Morgan, Tennessee Tech University Professor Dr. Tania Datta, and new TREEDC President/Dunlap Mayor Dwain Land. The delegation conducted numerous business developmental meetings for public and private entities in the Bicol region, Visayas, and Metro Manila areas. During the trade mission, TREEDC met with the American Chamber of Commerce, U.S. Department of Commerce, Philippine Congressman Sherwin Gatchalian, Congressman Al Bichara along with Naga City Mayor John Bongat, Prieto Diaz Mayor Benito Doma, and Legazpi City Mayor Noel Rosal to discuss strategies of creating more local jobs and training opportunities for renewable energy through partnerships with TREEDC's technology providers. TREEDC also met with University presidents representing Bicol University, University of Valenzuela, Technological University of the Philippines, Maritime Academy of Asia and the Pacific and Central Bicol State University. TREEDC and its U.S technology providers will return to the Philippines before the end of 2015. Special thanks to Fred Perdon, Rose Rey and Honelet Bertis for arranging our visits in Bicol.



The University of Tennessee MTAS Consultant Warren Nevad; TREEDC President/ Dunlap Mayor Dwain Land; San Beda College President Fr. Aloysius Ma. A. Maranan; Ducktown City Manager/TREEDC President Emeritus James Talley; Pasig City University President Dr. April Alcazar. Back row – Paul Lasangre Laguna State University; TREEDC International Affairs Director Douglas Jackson; Tohoku University- Japan Professor Dr. Peter John Wanner and San Beda College Professor James Piscos



From left: Warren Nevad, The University of Tennessee and Dr. Angelica Baylon, Maritime Academy of Asia and the Pacific

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## TREEDC Provides Scholarships to Philippine Students



Pasig City University students sing in appreciation to President Land

During its July trade mission, TREEDC President/Dunlap Mayor Dwain Land announced scholarships to students representing Pasig City University. A ceremony was hosted by Pasig City University to express appreciation to President Land. Pasig City University President Dr. April Alcazar organized the ceremony. TREEDC Director Warren Nevad also provided a scholarship in memory of Richard Nevad, Sr. to students from Philippine Normal University and Catanduanes State University.

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## TUP, TREEDC and PAEPI- Global Hold Forum on Renewable Energy



TUP President Dr. Adora S. Pili delivering her Welcome Message

By Prof. Elizabeth J. Galvez

The Tennessee Renewable Energy Economic Development Council (TREEDC), Philippine Association of Extension Program Implementers Inc. (PAEPI-Global) and the Technological University of the Philippines (TUP) held the Renewable Energy Forum on Technology Promotion on the Use of Renewable Energy, Clean technologies and Energy Efficient System last July 29, 2015.

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Said forum convened the renewable and clean energy professionals and academicians at the Asian Institute of Management (AIM), Makati City to network, discuss issues and exchange knowledge. Forum's main agenda was to examine the renewable energy and energy efficiency's landscapes in the TUP campuses, local municipality of Quezon and industries such as, Kardko Marketing Incorporated, Philippine Center for Print Excellence Foundation (PCPEF), Evergreen Environmental Resources and Bases Conversion Development Authority (BCDA).

A message from the TUP President, Dr. Adora S. Pili welcoming all the participants formally started the event likewise the statement of purpose and presentation of participants by Engr. Felipe Ronald M. Argamosa, Vice President for Research and Extension. TREEDC President and Dunlap, Tennessee Mayor George Dwain Land extended his greetings and thereafter awarded Dr. Gina L. Basa, Director, International/Institutional Linkages and External Affairs Office, TUP with a certificate that named her the TREEDC Ambassador to the Philippines. This was immediately followed by lectures; the first of which was on the Renewable Marketing Opportunities and Networking by Mr. Warren Nevad, Director, TREEDC. After which, Mr. Nevad discussed the Importance and Benefits of Renewable Energy. Mr. Douglas Jackson, Internal Affairs Director, TREEDC provided the participants a preview of his visits to the different network cities and schools of TREEDC. Renewable Energy Projects and Programs in the Philippines was discussed by Mr. Arnulfo M. Zabala, Supervising Science Research Specialist Solar and Wind Energy Management Division, Department of Energy.

The second half of the forum was spent for Plenary sessions . There were four speakers who discussed the topic on Benefits of Using Renewable and Efficient Energy System in Industries, they were: Mr. Jose A. Ramos, President of Kardko Marketing Inc., Mr. Rolando F. Rocha, Executive Director, PCPEF, Ms. Yazmynn A. Bacolod, Quality Assurance Technical Management, Evergreen Environmental Resources, and Atty. Haney G. Siclot , Legal Officer, BCDA.

The next set of Plenary Speakers who tackled on the Renewable Energy Project at the TUP Campus Level were: Dr. Selfa J. Briones, Director, TUP Taguig; Dr. Andres Z. Taguiam, Director, TUP Cavite; Dr. Florida C. Labuguen, Administrator, TUP Cuenca, Batangas; Dr. Gisela V. Rolluqui, Administrator, TUP Lopez, Quezon and Engr. Felipe Ronald M. Argamosa, TUP Manila.

The event ended with a closing message from Dr. Amihan April M. Alcazar, President, PAEPI-Global and President of the Pamantasan ng Pasig.

The Master of Ceremony of the program was Prof. Elizabeth J. Galvez, Special Assistant on Information and Publication in the Office of the President and Head, Audio Visual Division, Multimedia Technology Department, Integrated Research and Training Center. Facilitators of the event were Dr. Gina L. Basa, assisted by Dr. Amihan April M. Alcazar.

Dr. Basa receives the award as "TREEDC Ambassador to the Philippines from Mayor Dwain Land and Mr. Nevad. President Pili congratulates her.



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## Tennessee Environmental Council Joins TREEDC



Nevad, MTAS/TREEDC, Kelly McGinnis, Director of Mississippi River Network, John McFadden, TEC Director State Senator Steve Southerland

One of Tennessee's oldest environmental non-profit organizations, Tennessee Environmental Council (TEC) (founded in 1970), recently signed a strategic partnership with the Tennessee Renewable Energy & Economic Development Council (TREEDC) and the Mississippi River on September 24, 2015 to advance energy efficiency and renewable power opportunities in Tennessee.

"On behalf of the 96 Tennessee Mayors of TREEDC, we are very proud to partner with the Tennessee Environmental Council to promote a more sustainable Tennessee," says Warren Nevad, a Management Consultant with the University of Tennessee Municipal Technical Advisory Service and TREEDC Director. "TREEDC President/Dunlap Mayor Dwain Land and our board have been impressed with the depth and breadth of the Council's grassroots as well as their corporate partners," says Nevad. "Together with TREEDC's network of local government officials, universities and state agencies, we will build a stronger coalition together to meet Tennessee's sustainability and renewable energy goals for years to come.

The Council's impressive track record of 45 years in bringing environmental awareness and TREEDC's mission of promoting economic development with renewable energy will be a win-win combination for all Tennesseans to enjoy a better quality of life."

"The way we produce energy has significant consequences to water quality and the overall quality of our environment," says Jeff Barrie, Director of Sustainable Tennessee (a project of Tennessee Environmental Council). "Working together, our organizations can achieve greater outcomes than we can on our own," says Barrie. TEC and TREEDC are working together on with the 2<sup>nd</sup> Annual Renewable Energy Conference at Tennessee Tech University on December 14-15, 2015. Click here for details - [https://epay.tntech.edu/C20205\\_ustores/web/product\\_detail.jsp?PRODUCTID=755&SINGLESTORE=true](https://epay.tntech.edu/C20205_ustores/web/product_detail.jsp?PRODUCTID=755&SINGLESTORE=true) TREEDC 2<sup>ND</sup> Annual international Conference Early Bird ends October 30, 2015.

For more info about Tennessee Environmental Council, please visit [techtn.org](http://techtn.org)