EEMI Advisory Board

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- Dr. Michael D. Ware, Managing Director, Advance Capital Markets
- John Paul Woodley, Jr., Esq., former Assistant Secretary of the Army (Civil Works); Principal, Advantus Strategies

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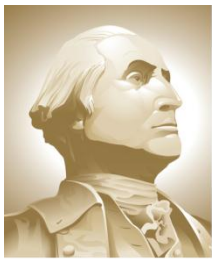
A component of the George Washington University in the Nation's Capital at Foggy Bottom, the EEMI is housed in the GW School of Engineering and Applied Science and functions as an integral component of GW's Sustainability Collaborative. Sustainability is one of GW's core strategic initiatives, and an essential part of achieving the University's goal of being the preeminent research and educational university in the Nation's capital. The University has substantial academic expertise in a wide range of fields related to sustainability, including climate and energy, environmental engineering, public health, food culture and systems, and environmental law and policy. GW currently offers more than 250 courses on topics related to sustainability and 40 undergraduate, graduate and post-graduate programs in sustainability-related fields. In 2012, the University began offering an 18-credit minor in Sustainability open to all undergraduate students



THE GEORGE WASHINGTON UNIVERSITY

WASHINGTON, DC

Environmental and Energy Management Institute

The George Washington University's Environmental and Energy Management Institute (EEMI) was chartered as a University-wide institute in 2015 to advance human knowledge applicable to pragmatic, implementable, non-regulatory, next generation self-governance solutions primarily focused on national and international standards for environmental, energy, and sustainability management.

Check us out on the web!
https://eemi.seas.gwu.edu/

EEMI Focal Areas

The EEMI mission is to conduct state-of-the-art and highly relevant research, promote graduate studies and other learning opportunities, and undertake service and policy-inducing activities pertinent to the application and implementation of national and international standards for the management of environmental, energy and sustainability challenges throughout the world. Application areas for these research, educational and service activities include the following:

1. **Greenhouse gas management:** Address measurement, reporting, analysis, trading, and verification of emissions.
2. **Green, smart and sustainable cities:** Advance metrics for governance, design, technology and economics.
3. **Environmental management systems:** Promote non-regulatory environmental strategies for organizations.
4. **Energy management systems:** Promote renewable energy and organized and effective management in the use of energy.
5. **Data center energy efficiency:** Lower power use, and promote renewable energy sources for data centers.
6. **Green buildings:** Increase efficiency; reduce energy use and negative impacts on humans and the environment.
7. **Environmentally preferable products:** Reduce environmental, impacts; promote market-based instruments, labeling, and analysis.
8. **Water:** Improve water use efficiency, management, availability, access and quality.
9. **Next generation environmental self-governance:** Raise awareness and promote the application of next generation voluntary strategies and encourage the development of governmental initiatives that reflect such strategies in official policies and programs. EEMI works with industrial, academic and governmental policy experts and centers throughout the world to advance this agenda.

Research Activities

The following research projects illustrate EEMI's robust policy-relevant research program:

- Smart Energy Consumer Education (sponsored by the Potomac Electric Power Company)
- Environmental Management Standards Education (sponsored by the National Institute of Standards and Technology)
- Electric Grid Resiliency and Technology Options (sponsored by the Department of Defense)
- Microgrid Financing and Design Strategies (sponsored by Duke Energy Renewables)
- Chemical and Material Risk Management and LCA (sponsored by the Department of Defense)

Service and Policy Promotion

To advance its mission, the EEMI undertakes service and policy inducing activities such as:

- Symposium on Public-Private Partnerships on water and wastewater infrastructure
- Symposium on Science-based Targets for Green-house Gas Reduction
- Council of Engineering Systems Universities (CESUN) 5th Symposium
- Sustainability training for Federal executives in conformity with EO 13693
- Caribbean Partnership for Educational Tools in Sustainable Energy

Graduate Certificate Programs

The following programs provide students with Graduate Certificates. Though each program is designed to provide a stand-alone graduate credential, most courses also can be counted towards Master's, Professional, or Doctoral degree requirements.

- **Environmental and Energy Systems Management Graduate Certificate.** A six-course graduate certificate enabling students to become proficient in implementing environmental and energy management systems, including the ISO 14000 and ISO 50000 series.
- **Energy Engineering and Management Graduate Certificate:** A four-course graduate certificate that is designed to provide advanced education in the rapidly emerging fields of renewable energy and energy efficiency.
- **Greenhouse Gas Management Certificate**. An online, four-course program designed in partnership with the Greenhouse Gas Management Institute covering the measurement, reporting, analysis, reduction, trading, and verification of GHG emissions.

Professional Short Courses

The EEMI has partnered with the European Energy Center to provide two-day courses on renewable energy, project financing, environmental management and related topics.

- **Solar Photovoltaic Fundamentals**. Understanding solar energy technologies, policy, and regulations.
- **Renewable Energy Management and Finance**. Economic and financial analysis of renewable energy technologies and renewable energy investments.
- **Environmental Management beyond Compliance**. Design and implement ISO 14001 systems.
- **Practical Application of Circular Economy Methods**. Industrial methods and arrangements for optimum resource use, life-cycle value, and materials recovery.