RESS Online Tools
(in the Solar Option context)
Renewable Energy and Sustainability Systems

Solar - Wind - Bio - Sust. Mgmt. & Policy

- Intercollege Master of Professional Studies (iMPS)
- Online degree and certificate Program
- Designed for part-time adult learners
- Allows students to learn while remaining in current employment and location.
- Preparation to assume advanced roles as project and program developers, managers, and policy analysts.

- Professionally oriented technical education that enables graduates to lead the transformation to an economy embracing renewable energy and sustainable solutions
- Guiding educational objective is to impart technical understanding and advanced project development skills
- Solar Option: create graduates who can lead project development and policy development in the solar energy industry
Solar Ensemble: Defining Utility and/or Distributed Scope and allowing Electric and/or Thermal Focus.

Foundation
- EME 810: Solar Resource Assessment and Economics
  - Methods, economic criteria, and meteorological background for assessing the solar resource with respect to solar energy conversion technologies.

Summative
- A E 878: Solar Project Development and Finance
  - Economic analysis of solar energy projects, project development process, energy policies, finance methods, and economic analysis tools.
Solar Ensemble: Defining Utility and/or Distributed Scope and allowing Electric and/or Thermal Focus.

- A E 862: Distributed Energy Planning and Management
- A E 868: Commercial Solar Electric Systems
- EME 811: Solar Thermal Energy for Utilities and Industry
- EME 812: Utility Solar Electric and Concentration
Online Access Points

- RESS Program Home:
  - https://www.ress.psu.edu/
  - https://www.ress.psu.edu/solar_energy

- Penn State World Campus : RESS Degrees/Certificates
Tools Online

- Open Educational Resources:
  - Courses open through Creative Commons Share-alike
  - http://open.ems.psu.edu/

- Lynda.com @ PSU -- Training does not have to occur only in the class
  - http://lynda.psu.edu/

- Other resources for technology
  - https://libraries.psu.edu/
Open Educational Resource Initiative for RESS Solar

- **New 2016 commitment in RESS:** *Open Educational Resources via Creative Commons Share-Alike 3.0 licensing*
  - **Courseware open** - similar to opening the doors to our libraries
  - **Benefit for teachers** - access to Penn State expertise
  - **Benefits learners** around the world who can't afford to enroll or don't need academic credit
  - **Benefits learners with disabilities** enabling testing out courseware before enrolling; enabling us to make necessary adjustments
  - **No negative impact on enrollments** and broadcasts the high quality of Penn State's resources

- **Four Solar courses now open for sharing and exploring!**
  - EME 810, EME 811, EME 812, and AE 868

http://open.ems.psu.edu/
And now on to Solar Utility...

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Welcome to EME 810: Solar Resource Assessment and Economics

New to EME 810?
Registered students should begin with the Course Orientation, located in the menu.

Not registered? Students who register for this Penn State course gain access to assignments and instructor feedback and earn academic credit. Learn more about our program and how to register here.

As a member of the inter-college Master of Professional Studies in Renewable Energy and Sustainability Systems, this course could count toward your RESS degree or toward a graduate Certificate in Solar Energy.

Quick Facts about EME 810

Instructor
Dr. Jeffrey Brownson, Associate Professor, Dept. of Energy & Mineral Engineering and Dept. of Materials Science & Engineering, College of Earth and Mineral Sciences, The Pennsylvania State University.