EDUCATING WI’S RENEWABLE WORKFORCE
1:30 PM

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These are jobs that:

1) Pay a family supporting wage
2) Cannot be outsourced
3) Cannot be done by robots
4) Benefit society
Center for Renewable Energy Advanced Technological Education (CREATE)

Providing renewable energy education for teachers
Establishing industry and academic partnerships
Promoting renewable energy careers
Addressing technician knowledge, skills, and competencies

WI STEM Educator Solar Institute
July 7-9, 2020
www.CreateEnergy.org
Solar Roadmap

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Priorities Identified

1. Truax Main Campus
2. New South Campus
3. Commercial Avenue Lab Update
4. New Child Care Center
5. Regional Campuses
6. Health and Protective Services buildings
Madison College Truax Campus
1,850 KW Commissioned in January 2019
Madison College Goodman South Campus
125 KW Commissioned in Sept 2019
Wisconsin K-12 Energy Education Program (KEEP)

Goal:
To leverage teacher education to improve and increase energy literacy in Wisconsin's K-12 schools as a means of contributing to statewide energy savings.
Teacher Professional Development
Curriculum/Resources
# Student Engagement

## School-to-Home Menu of Options

### Classroom Visits and Curriculum
- Investigations for Students in Energy Efficiency (I-SEE)
- Student Energy Audit Training (SEAT)
- Watt's Up Unit

### Hands-on Lending Resources
- Take-home Energy Audit Kit
- Energy Audit Kit
- Watts Up? Meters
- Lending Library

### Partner Programs
- Cool Choices
- STEMhero
Stay Connected

KEEPProgram.org

Twitter - @KEEPProgram

https://www.facebook.com/wiskeep

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Renewable Energy Training

- Photovoltaics (PV)
- Solar Thermal Energy Systems
- Small Wind Energy Systems
- National Electrical Code
Photovoltaics (PV) Training

- MREA is a NABCEP PV Associate Exam Provider
  Basic PV (101), PV Site Assessment (201) & PV System Design (202)
  103 students earned their NABCEP PV Associate last year
- Courses approved for NABCEP advanced training, recertification & renewal (Board Certifications)
- Accredited by IREC
- Many courses approved for continuing education with IA, MN & WI (state electrical licenses)
- The MREA is approved by the Wisconsin State Approving Agency (SAA) for GI Bill® education benefits
Training Format & Options

- Online courses
- Classroom & hands-on (lab) training
- Contract training for large groups (by request)
- **Solar Training Academies**
  - Eau Claire
  - Milwaukee
  - Twin Cities
  - Bloomington, IL
  - Kankakee, IL
  - Cedar Rapids, IA
  - Deerfield, WI
University of Wisconsin-Platteville
Sustainability and Renewable Energy Systems (SRES)

College of Engineering, Mathematics and Science
Sustainable & Renewable Energy Systems Major

- **Design & Analysis**
  - Technical side of energy projects ranging from analysis, design, energy and waste reduction, operational, and process improvement facets in industry.

- **Development & Management**
  - Prepare you for a career as an auditor, inventory specialist, logistic expert or project manager.
Sustainable & Renewable Energy Systems Minor

- Popular with among Industrial Engineering, Mechanical Engineering, Electrical Engineer, Business Administration, and, increasingly Agriculture majors.
- Broad-based knowledge relating to renewable energy and sustainability.
Outreach & Recruitment

- Admission outreach and prospective student tours
- Exhibit at annual EMS Expo - 1500+ students K-12 throughout WI
- Students visit their high schools and promote the program
- Hands-on workshops for three summer camps