

University of Wisconsin-Platteville



**Mesut Muslu, Professor, Electrical and Computer Engineering
Coordinator, Sustainability and Renewable Energy Systems (SRES) Program**

College of Engineering, Mathematics and Science



**UNIVERSITY OF WISCONSIN
PLATTEVILLE**

Sustainability and Renewable Energy Systems (SRES) Program at UW-Platteville

- In the Electrical and Computer Engineering Department
- Offers SRES Major and Renewable Energy Minor

Minor - established in fall 2008

Major - established in fall 2013



SRES Major

Background

Program Goals:

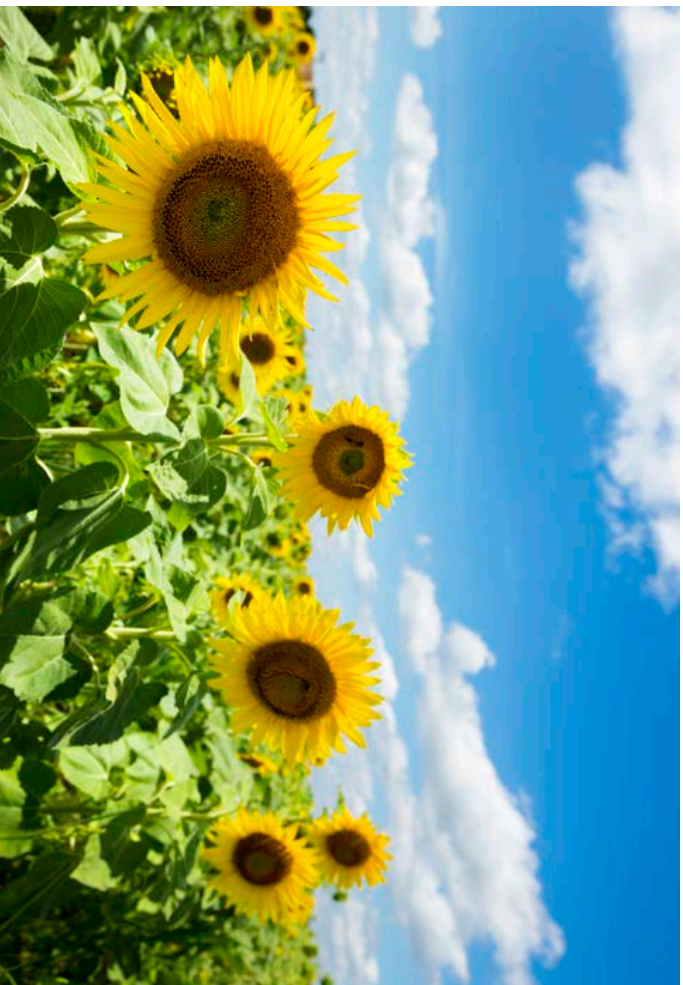
- Prepare students with abilities to assess the relative merits and potential impacts of different energy sources within the framework of sustainability
- Graduate students with a strong foundation in business and management aspects of renewable energy projects
- Graduate students who are knowledgeable citizens prepared for the green jobs of the future
- Support and educate business and community partners through projects, seminars and workshops



SRES Major (Continued)

Program Topic Areas:

- Wind and solar systems
- Bio-renewable resources and bio-fuels
- Green building design and building energy management
- Energy efficiency and management
- Sustainability
- Project management



SRES Major (Continued)

Design & Analysis Emphasis

Designed to provide graduates who will work in technical side of energy/renewable energy and sustainability area

- Requires mathematics and science courses close to engineering program requirements
- Requires basic first year engineering courses
- Better analytical skillset
- Requires business, economics, accounting, and project management courses
- Requires senior design (capstone design)
- Requires internship or co-op experience



SRES Major (Continued)

Development & Management Emphasis

Designed to graduate energy professionals who are on the business side of energy and sustainability

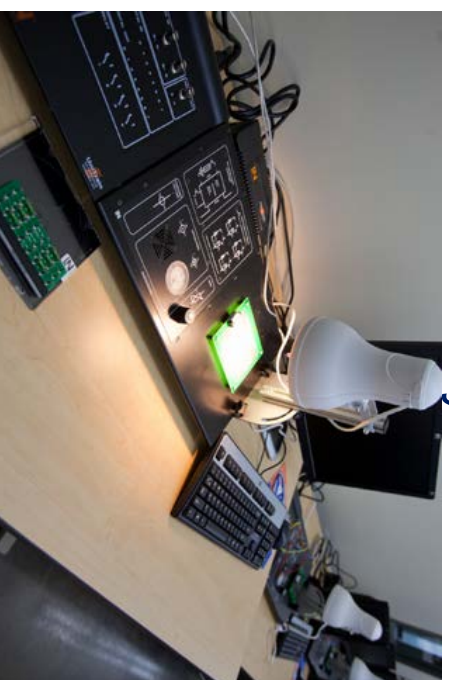
- Stronger foundation in business, accounting, economics - additional courses are required
- Requires less mathematics and science
- Provides more elective courses (business, geography, reclamation, environmental engineering)
- Requires senior design (capstone design)
- Requires internship or co-op experience



SRES Major (Continued)

Program Strengths:

- Addresses timely topics of energy and sustainability
- Addresses both technical and non-technical aspects
- Hands on program with a special emphasis to interacting with industry and community partners
- Required Internships and emphasis on interdisciplinary education
- Emphasis on international aspects of the topics
- Preparation for ABET accreditation
- Strong industry partnership – SRES Advisory Board



SRES Minor

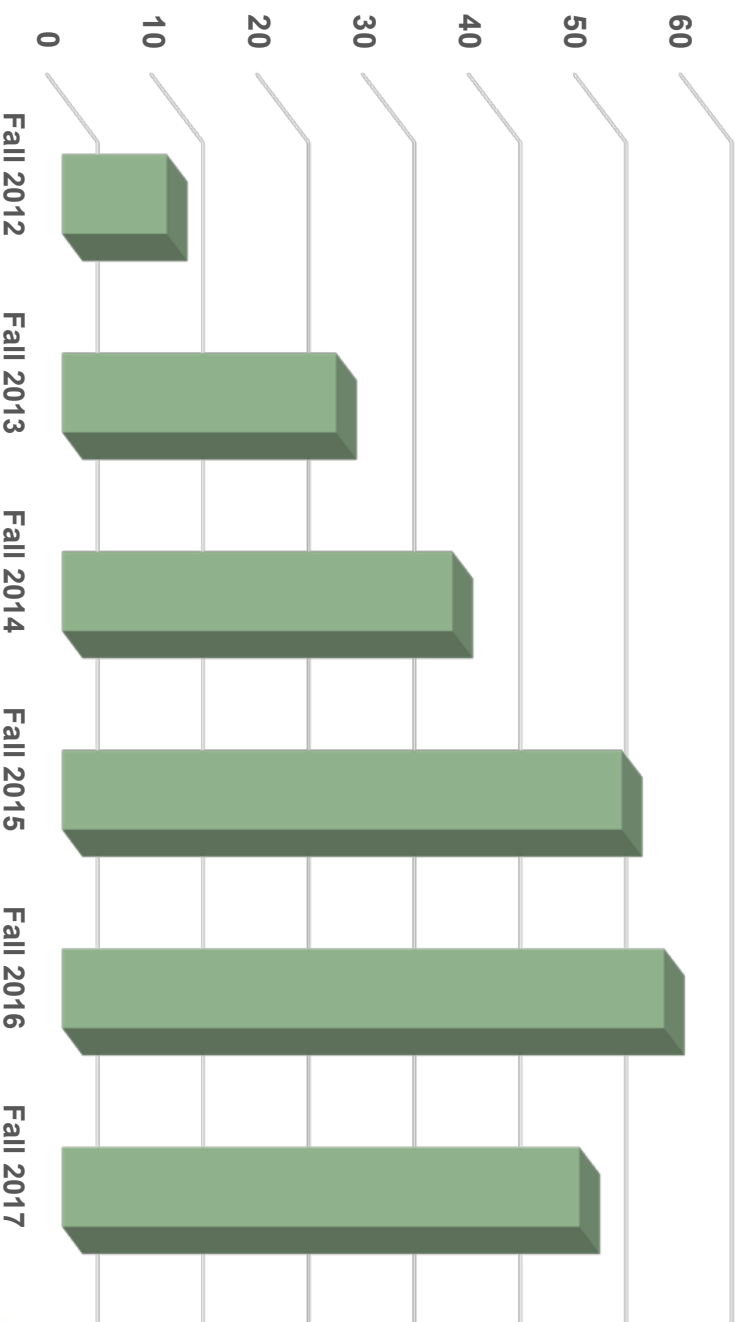
- Established in 2008
- Requires 21 credits of coursework in energy and/or sustainability area
- Requires at least 4 Energy courses
- Requires a projects course – to make sure that students who are in the minor have hands-on experience (with students majoring in SRES)
- 85-90% of the students in the minor are engineering students



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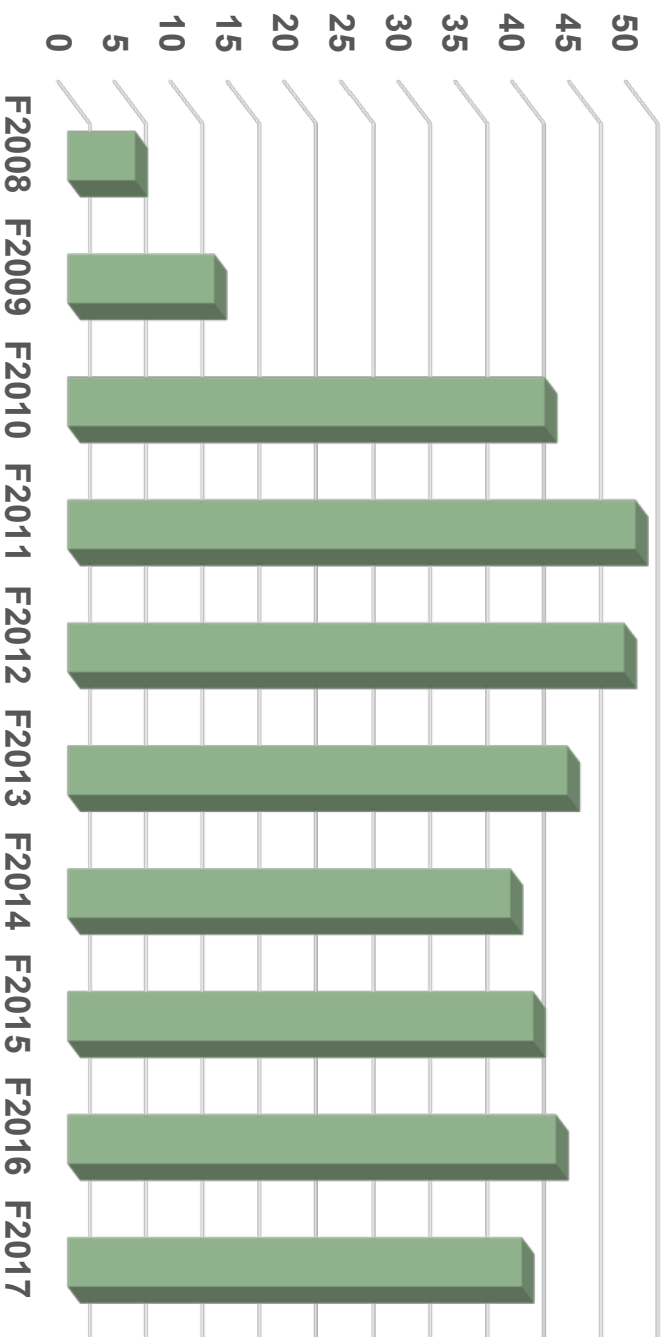
SRES by the numbers

SRES Major



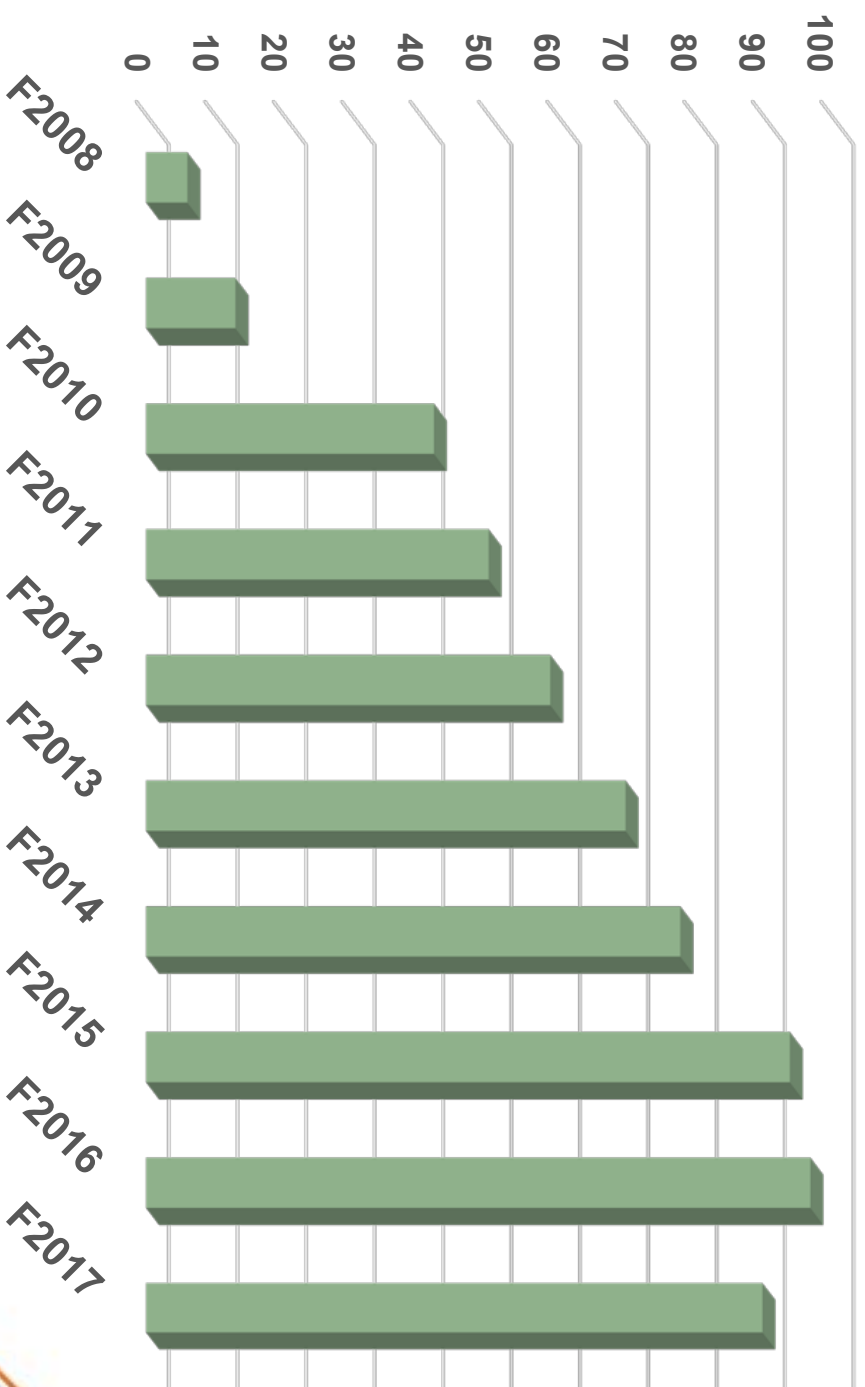
SRES by the numbers (Continued)

Renewable Energy Minor



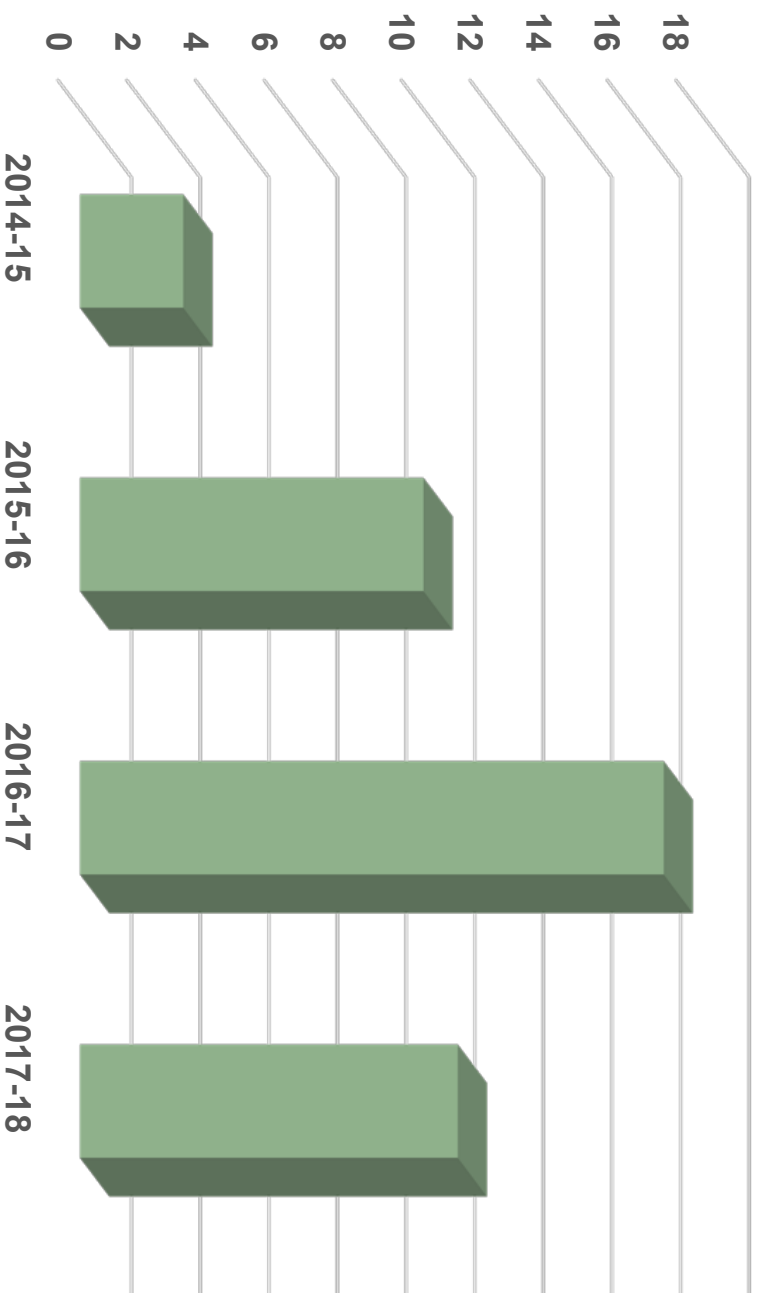
SRES by the numbers (Continued)

SRES Major + Renewable Energy Minor



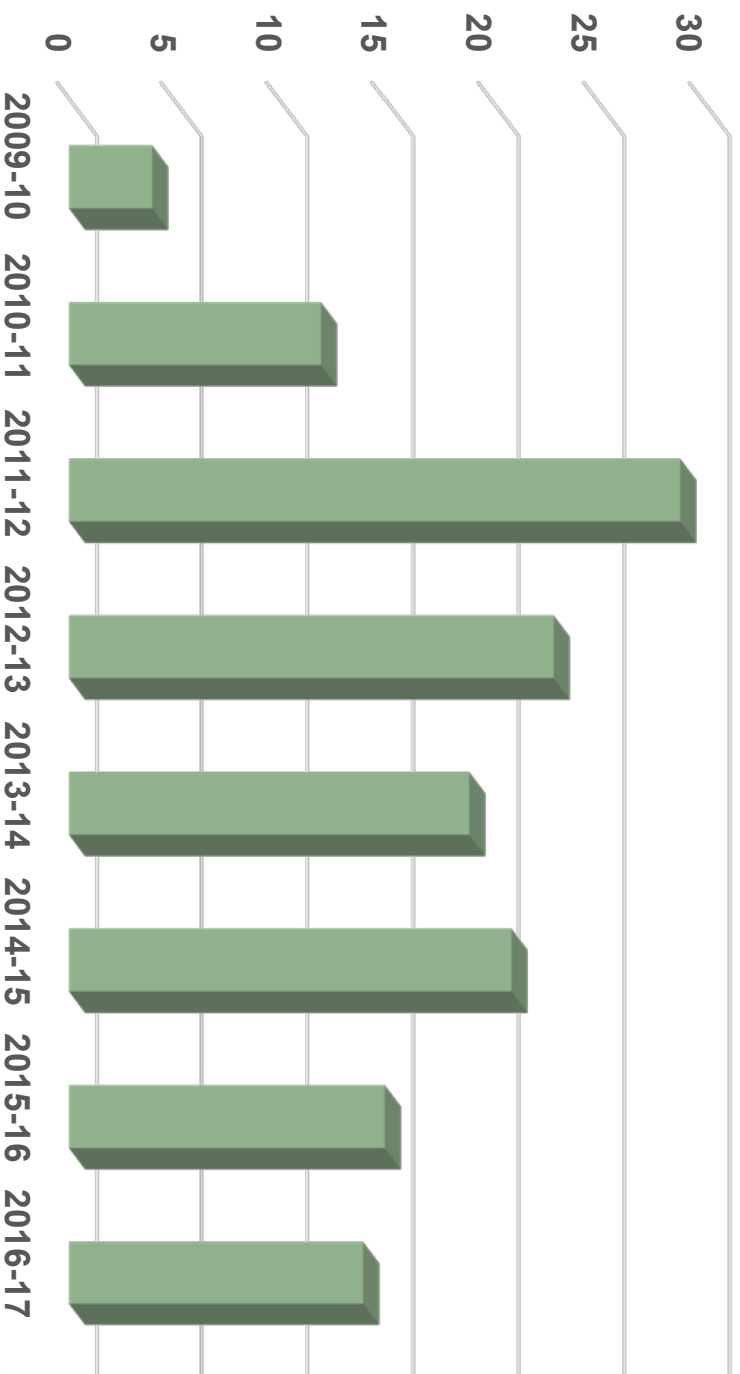
SRES by the numbers (Continued)

SRES - Graduates by Academic year



SRES by the numbers (Continued)

Graduates with Renewable Energy Minor



SRES graduates – Jobs and Salary Information

- Approximately 70 % has jobs at graduation, about 90% within 6 months of graduation
- For most graduates, the salary range is \$45,000 to \$55,000
- Graduates are placed in companies like:
 - CLEARResults
 - Blattner Energy
 - Xcel Energy
 - Franklin Energy
 - Energy Performance Lighting
 - Eagle Point Solar
 - Wisconsin Energy Conservation Corp
 - Center for Energy and Environment



Contact Information

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Questions?

