

Energy and Sustainability (Graduate Certificate)

SUERGSGRCT

As community dependence on a global energy system grows, it is increasingly important that to ensure that current needs are met without compromising future generations. Become a leader in guiding the societal transition to sustainable energy, and help create a thriving future for all.

Program description

Degree awarded: Certificate Energy and Sustainability (certificate)

The global energy system is a complex sociotechnical system. Leaders in sustainable energy must have a transdisciplinary perspective that combines technical, economic, social and policy dimensions of energy systems. The certificate in energy and sustainability is designed to train students from diverse educational backgrounds who are in graduate-level energy-related fields to see beyond the boundaries of traditional methodologies and disciplinary viewpoints, enabling them to integrate technological knowledge with societal insights.

Graduates of the certificate program have a basic understanding of sustainable energy technology and systems, including social dimensions such as markets and policies. They understand energy transitions as a dynamic sociotechnical process, and they are able to perform analyses of energy generation, consumption and costs, and how these metrics can be utilized in policy discussions.

At a glance

- **College/School:** [College of Global Futures](#)
- **Location:** [Tempe](#)

Degree requirements

15 credit hours

Required Core (6 credit hours)

SOS 572 Sustainable Energy Transitions (3)

SOS 574 Data Analytics for Sustainable Energy (3)

Electives (9 credit hours)

technical fundamentals of energy systems elective (3)

policy and governance of energy systems elective (3)

restricted elective (3)

Additional Curriculum Information

Students should contact the academic unit for the most recent approved elective coursework. Other coursework may be used with approval of the academic unit.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the College of Global Futures.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in any field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

Applicants are required to submit:

1. graduate admission application and application fee
2. official transcripts
3. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency.

International students who need an F1 or J1 visa first need to apply to and be accepted into a graduate degree program prior to being considered for the certificate program. International students residing in the USA on other types of visas must adhere to all Graduate College policies and procedures regarding admission to be considered for admission to this certificate program.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Application deadlines

Fall

[expand](#)

Global opportunities

Global experience

Studying abroad is encouraged for graduate students. Nearly all of the College of Global Futures faculty-directed programs offer graduate credit. In addition, the Global Education Office offers more than 50 program opportunities, with programs on every continent.

Faculty-directed programs tend to be the best fit for graduate students; taking courses with ASU professors over the summer or during academic breaks offers students close mentorship and professional network growth in many fields of study while they earn ASU credit. Exchange program participation is also possible with careful planning.

Students can find programs specific to their interests on the [College of Global Futures Study Abroad webpage](#), and additional opportunities and information on the [ASU Global Education Office website](#). These sites also include additional information about applying for funding to support global travel.

Career opportunities

Future energy challenges will be addressed by leaders who understand the complexity and dynamics of global energy systems and can communicate with diverse stakeholders to implement adaptive solutions. Graduates with this certificate are competitive for employment opportunities in academia, industry or government.

Career examples include:

- policy analyst
- project manager
- regulatory affairs specialist
- renewable energy engineer
- strategy consultant

Contact information

[School of Sustainability](#) | WCPH 3rd floor
SustainabilityGrad@asu.edu | 480-727-6963

