

ENERGY TRANSITION STRATEGIES GRADUATE CREDIT CERTIFICATE PROGRAM

Person-in-Charge	Erich Schienke
Program Code	ETS
Campus(es)	World Campus

This Graduate Certificate in Energy Transition Strategies is an advanced online program designed for those students seeking to play a pivotal role in the global shift towards sustainable energy solutions. This certificate equips students with the knowledge and skills to critically articulate the technical fundamentals underlying renewable energy systems and their significance within both local and global contexts of energy transitions. Central to the program is the development of competencies in performing thorough sustainability assessments of energy projects. Through the application of lifecycle, lifecycle cost, and systems analysis, students will gain the ability to evaluate the holistic sustainability of energy initiatives, considering economic, environmental, and social dimensions. This critical evaluation skill ensures that graduates can contribute to the development of energy projects that are not only technically feasible but also sustainable in the long term. The curriculum is also designed to foster students' understanding of the complex interconnections within the energy-water-food nexus as well as the intricate relationships between energy, climate, environment, and natural resources. This comprehensive approach enables students to grasp the environmental implications of energy choices and to advocate for and develop energy solutions that are in tandem with global climate objectives. Overall, the Graduate Certificate in Energy Transition Strategies prepares students to become forward-thinking leaders in the energy sector, capable of contributing to the advancement of sustainable energy solutions that respect the delicate balance of our planet's ecosystems and promote a sustainable future for all.

Courses taken in the certificate program may be applied toward the Master of Professional Studies in Renewable Energy and Sustainability Systems (RESS) if the student has earned a B- or better in each course, subject to restrictions outlined in GCAC-309 Transfer Credit (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/transfer-credit>). Certificate students who wish to have certificate courses applied towards the M.P.S. in RESS must apply and be admitted to that degree program. Admission to the RESS graduate degree program is a separate step and is not guaranteed.

Effective Semester: Spring 2025
Expiration Semester: Spring 2030