



永續與綠能科技研究學院

S A G E - GRADUATE COLLEGE OF
SUSTAINABILITY AND GREEN ENERGY

SUSTAINABILITY IN GREEN ENERGY

MASTER/PH.D. PROGRAMS

Green energy, also known as renewable energy or sustainable energy, refers to energy derived from natural, replenishable resources that have minimal environmental impact. These resources are naturally occurring and are not on a human timescale, making them sustainable as opposed to finite fossil fuels. Green energy sources include solar energy, wind energy, hydropower, geothermal energy, tidal energy, and wave energy. Unlike fossil fuels, green energy sources produce little to no greenhouse gas emissions or other pollutants during energy generation, making them environmentally friendly and contributing to efforts to combat climate change and reduce dependence on non-renewable energy sources.



FUELING THE FUTURE
WITH GREEN ENERGY



LEADING ENGINEER IN SUSTAINABILITY AND GREEN ENERGY

In order to effectively address the climate crisis and reduce carbon emissions, countries worldwide are actively promoting energy transition. Taiwan has set a goal of achieving net-zero carbon emissions by 2050, which requires a significant reduction in fossil fuel usage, increased utilization of renewable energy sources, and control over energy consumption growth. Additionally, there is a need to enhance energy efficiency across various sectors to maximize energy-saving benefits.



INTERDISCIPLINARY TECHNOLOGIES

This program focuses on developing and managing green energy systems such as energy storage, hydrogen energy, and biomass energy.



**INTERDISCIPLINARY
TECHNOLOGIES**

**ELECTRICAL
ENGINEERING**

**COMPUTER
SCIENCE AND
INFORMATION
ENGINEERING**

**COMMUNICATION
ENGINEERING**

**ENERGY
MATERIALS**

**EARTH
SCIENCES**

**SUSTAINABLE
ENERGY
MARKETS**

KEY PROGRAM FEATURES

INTERDISCIPLINARY CURRICULUM

An interdisciplinary curriculum integrates knowledge and methodologies from multiple academic disciplines to provide a comprehensive understanding of sustainable energy systems and their impact on society, economy, and the environment. Here are some areas that will be covered in the curriculum: foundations of green energy, power electronics and power systems, engineering and technology, environmental studies, research and innovation.

GLOBAL NETWORKING OPPORTUNITIES

Global networking opportunities in green energy education are crucial for fostering collaboration, sharing best practices, and advancing the training and development of professionals in the field. Through international conferences and workshops, online forums, research collaborations, professional associations and networks, , students can build a global network of contacts that supports their professional growth and collaborative opportunities.

EXPERT FACULTY

With expertise spanning various disciplines, including earth sciences, electrical engineering and computer science, engineering, management and beyond, our faculty members enrich the curriculum with their deep knowledge, cutting-edge research insights, and invaluable real-world experience.

PRACTICAL EXPERIENCE

Through the established energy test site, it conducts practical technical training and facilitates the development of innovative new energy applications. The program aims to provide effective solutions to meet the demands of the future green energy industry.

COMPREHENSIVE AND INTERDISCIPLINARY CURRICULUM

The curriculum is structured to provide a comprehensive understanding of sustainability in green energy through a blend of compulsory, core, practical and elective courses.

Compulsory Courses: foundational knowledge and essential qualities for sustainable energy, professional skill development on green electronics applied to green industry.

Core Courses: solid foundation in electrical engineering, computer science and information engineering, communication engineering and related fields, enhancing understanding of relevant technologies and methodologies.

Elective Courses: distributed energy, hydrogen energy, fuel cell, and electric vehicle, as well as energy information and communication technology



WHY STUDY AT NCU ?

Top 1 in Industry-university, international collaboration in Taiwan.

1

One of the leading universities in Taiwan, with the most convenient location close to the airport and high-speed rail.

2

Holistic education, providing students with a platform for self-learning and the realization of their creativity.

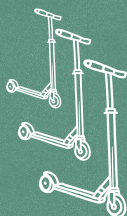
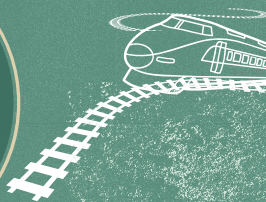
3

Environment-friendly green campus based on solid foundations of sustainable development.

4

Electric scooters and bikes are provided for all students for easier transportation within and around.

5



HOW TO APPLY ?



Go to our website
<https://sage.ncu.edu.tw/>
and get familiar with program's
Admission Handbook



Make sure that you are eligible to
apply for the program.



Prepare all necessary documents to
make the application smoother.



Apply for the program on the
National Central University's
admission website:
<https://cis.ncu.edu.tw/admissions/>



Wait to be admitted and invited to
the online or onsite interview (in
case needed).



Join our welcome orientation, and
enjoy your path to being a
sustainable leader.



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CONTACT US

Tel. +886-3-4227151 ext.26700

Site: <https://sage.ncu.edu.tw/>

E-mail: sage@g.ncu.edu.tw

Address:

Graduate College of Sustainability and Green Energy,
National Central University

Teaching and Research Building, 5th floor,
No. 300, Zhongda Rd., Zhongli Dist.,
Taoyuan City, Taiwan

WEBSITE



FACEBOOK



INSTAGRAM



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LINKEDIN

