



School of Energy & Environment

First in Hong Kong

With cutting-edge research and professional education in energy and environment

Energy & Environment
— The Grand Challenge



SEE Website



香港城市大學
City University of Hong Kong



Introduction



The School of Energy and Environment (SEE) – the first in Hong Kong - was founded in July 2009 with the mission to perform cutting-edge research and provide professional education in energy- and environment-related issues. Never before have such issues become so important worldwide, and they are in fact on the top agenda of every region/country. The critical question is how enough energy can be produced to sustain economic growth while the effects on the environment in the production and use of energy can be minimised. Conversely, the carbon footprint in mitigating environmental problems must also be considered. The School is therefore designed to tackle this interactive relationship between energy and environment through the development of new scientific understanding and new technologies as well as the training of new professionals with broad knowledge in the areas of energy and environment.



Mission



- Advancing research and development, fostering knowledge transfer in targeted themes of benefit to societal needs in energy, environment, and sustainability;
- Preparing leaders and practitioners to address environmental and energy needs in a rapidly decarbonising world and build a sustainable future;
- Maintaining a collaborative and supportive atmosphere for students, faculty, alumni and other stakeholders in advancing our interdisciplinary research and educational objectives.



Accreditation

- Bachelor of Engineering in Energy Science and Engineering and Bachelor of Engineering in Environmental Science and Engineering have been granted accreditation by the Hong Kong Institution of Engineers (HKIE).
- Master of Science in Energy and Environment is accredited by the Institution of Gas Engineers and Managers (IGEM) and Chartered Institution of Water and Environmental Management (CIWEM). Graduates who have successfully completed the degree can partially fulfill the academic requirements* for registration as Chartered Engineer (CEng), UK.

* with an accredited BEng/BSc Degree from any of Washington Accord's 19 Signatories

We have a large interdisciplinary faculty with research expertise in atmospheric and climate science, biological science, chemistry, chemical engineering, energy economics, environmental engineering, environmental policy, mechanical engineering and materials science. Since its inception, the faculty has established several research groups and two research centres devoted to the development of fundamental and application-oriented research. On the educational front, we are offering two undergraduate majors, three undergraduate minors, a taught postgraduate programme as well as PhD places for well-qualified students.



Academic Programmes

The School of Energy and Environment offers several academic programmes and courses to both undergraduate and postgraduate students, which provide them with the knowledge and skills in the areas of energy and environment, with special reference to the Asian setting.

Undergraduate Programmes

Major Programmes

- Major in Energy Science and Engineering
- Major in Environmental Science and Engineering

Minor Programmes

- Minor in Atmospheric and Climate Science
- Minor in Energy Technology
- Minor in Sustainability

Gateway Education Courses

- Climate Change and Extreme Weather
- Energy: Today and Tomorrow
- Food Security and Sustainability
- Sustainable Energy and Environmental Engineering
- Urban Green City: Pollution and Solution
- Urban Sustainability in Hong Kong

Postgraduate Programmes

Research Degree Programme

- Master of Philosophy (MPhil)
- Doctor of Philosophy (PhD)

Taught Postgraduate Programme

- Master of Science in Energy and Environment

Student Exchange

The School of Energy and Environment has established exchange partnerships with institutions in various countries/regions.

Destination	Institution	
Asia	South Korea	Ewha Womans University Hanyang University
	Taiwan	University System of Taiwan
Europe	France	INSA Lyon
	Germany	Leibniz University of Hannover Ludwig-Maximilians-Universität München University of Bremen
	Sweden	Chalmers University of Technology



Research and Development

Our established research expertise in energy- & environment- related subjects are grouped in research teams to engage in and develop cutting-edge research. Current research areas include:

ENERGY

Conversion & Generation

Prof. Alex KY JEN
Prof. Michael K. H. LEUNG
Prof. Yun Hau NG
Prof. Angus Hin-Lap YIP
Dr. Sam H.-Y. HSU
Dr. Patrick LEE
Dr. Chunhua LIU
Dr. Sai Kishore RAVI
Dr. Jin SHANG
Dr. Patrick SIT
Dr. Edwin C.Y. TSO
Dr. Jian WANG
Dr. Xue WANG
Dr. Wei WU

Efficiency & Storage

Prof. Guohua CHEN
Prof. Michael K. H. LEUNG
Prof. Angus Hin-Lap YIP
Dr. Sam H.-Y. HSU
Dr. Chunhua LIU
Dr. Patrick SIT
Dr. Edwin C.Y. TSO
Dr. Jian WANG
Dr. Xue WANG
Dr. Wei WU
Dr. Denis Y. W. YU
Dr. Lin ZHANG

ENVIRONMENT

Atmosphere & Climate

Prof. Chak K. CHAN
Prof. Alvin Chi Keung LAI
Dr. Jung-Eun CHU
Dr. Jin-Soo KIM
Dr. Patrick LEE
Dr. Theodora NAH
Dr. Jin SHANG
Dr. Xuan WANG

Water & Waste

Prof. Guohua CHEN
Prof. Wen-Xiong WANG
Prof. Yun Hau NG
Dr. Alicia K. J. AN
Dr. Shauhrat S. CHOPRA
Dr. Liang DONG
Dr. Henry Y. HE
Dr. Sam H.-Y. HSU
Dr. Jason C. H. LAM
Dr. Carol LIN
Dr. Theodora NAH
Dr. Sai Kishore RAVI

SUSTAINABILITY

Sustainability & Policy

Prof. Alvin Chi Keung LAI
Dr. Shauhrat S. CHOPRA
Dr. Liang DONG
Dr. Wanxin LI
Dr. Carol LIN
Dr. Lin ZHANG



In line with the mission of CityU, collaborative research activities with industries are being pursued in the joint development of new technologies, products and services. In addition, knowledge transfer activities as well as consultancies are encouraged.

For details, please visit :
<https://www.cityu.edu.hk/see/research>



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