

ECSE 562. LOW-CARBON POWER GENERATION ENGINEERING.

Credits: 4

Offered by: Electrical & Computer Engr (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Primary energy resources, thermodynamics of power generation, conventional and renewable. Electric power generation principles. Rotating and static power conversion, frequency and voltage control. Synchronous and induction generators, design and operation, grid integration requirements. Static power converter interfaces, principles and operation. Wind and solar generation principles, control, wind and solar farms. Energy storage technologies and their role in low-carbon power systems. Operations and planning of low-carbon power generation systems. Renewable integration studies.

- (3-0-9)
- Prerequisites: ECSE 361 or ECSE 362 or ECSE 461
- Restrictions: Not open to students who have taken or are taking ECSE 463
- Winter semester course. Will be given in alternate years alternating with ECSE 563.

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