

Research Laboratory

ENERGY AND ENVIRONMENTAL
POLICY LABORATORY (EEPL)

Call for applicants

MASTER AND PHD SCHOLARSHIPS AT JGSEE

Graduate programs in

- MEng/MSc in Energy Technology and Management
- PhD in Sustainable Energy Systems

Research topics

1. ECONOMICS OF BUY BACK COAL FIRED POWER PLANT

The Government announced Thailand's new pledge to achieve carbon neutrality by 2065, while Thailand has recently ranked in the group of countries with critically insufficient actions to keep global warming well below 2°C. More aggressive measures are required to accelerate the reduction of greenhouse gas emission from all sectors within the country. Buying back coal fired power plants with fair compensation can expedite the cease of the operation of the domestic coal fired power plants and greenhouse gas emission. The plants can be replaced by power generators from renewable energy which are carbon neutral. Economic aspect and environmental effects of buying back coal fired power plants will be investigated.

Research topics



2. RETURNS TO FACTORS OF A NATURAL GAS FIRED POWER PLANT

Theoretically, returns to factors of production are determined by the marginal productivities of the factors. It is interesting to find out the marginal productivities of the major factors of a power plant. A natural gas fired power plant can be considered as an example, with an application of Cobb-Douglas production function. The results of the study will lead to fair compensations for different factors of the power production, and can be extended to power productions by different technologies.

Scholarships

There are 2 types of scholarships:

1. Full scholarships covering school fees, tuition fees and living allowance (Master 10,000 baht/month, PhD 13,000-22,000 baht/month)
2. Partial scholarships covering school fees and tuition fees

Research grant are made available to all students as thesis expense starting since the first semester students enroll for their thesis study. The maximum amount of funding for each program is as indicated below;

- Master 135,000 baht
- PhD 290,000 baht



Contact

DR. ATHIKOM BANGVIWAT

E-mail: athikom.bangviwat@outlook.com