



**TRƯỜNG ĐẠI HỌC  
BÁCH KHOA HÀ NỘI**  
HANOI UNIVERSITY  
OF SCIENCE AND TECHNOLOGY

# **ENERGY EFFICIENCY AND SUSTAINABILITY COMMITMENT**

**ONE LOVE. ONE FUTURE.**



## **OUR COMMITMENT**

As a leading university in the technical and technological fields in Vietnam, energy efficiency and sustainability is considered a great concern of our university. It is essential we manage our use of energy in a sustainable manner. We are committed to continually improving our overall energy performance by reducing wasteful energy consumption, improving energy efficiency, using energy-efficient products and services, designing for energy performance improvements and complying with relevant energy legislation and other requirements to which we subscribe.

# WHAT WE DO?



Measure units of energy used by an individual, event and organization monthly, reviews to identify areas where energy waste is highest



Plan to cut out use of energy

Set policy to ensure all renovations or new builds follow energy efficiency standards



Plan to upgrade existing buildings to higher energy efficiency rating

Have process for carbon management and reducing carbon dioxide emissions



Research on affordable and clean energy .



# KEY PROJECTS AND ACTIVITIES RELATED TO ENERGY EFFICIENCY

No	Projects related to Energy Efficiency	Project lead	Start (-end)
1	Studying the compatibility of old-generation explosion engines using biofuel with ethanol ratio greater than 5%	Prof. Dr. Lê Anh Tuấn	2011-2012
2	Researching, designing and manufacturing electronic fuel injection systems providing biofuel with ethanol ratio up to 100% (E100) for automobile engines and motorcycles using flexible fuel	Prof. Dr. Lê Anh Tuấn	2014-2016
3	Small and medium scale industrial boiler development project for energy supply in Vietnam	Ass. Prof. Dr. Phạm Hoàng Lương	01/04/2019
4	Studying the process of converting domestic waste into coal fuel by hydrothermal method and evaluating the fire ability.	Ass. Prof. Dr. Văn Đình Sơn Thọ	2020-2021
5	Studying the fabrication of adsorbent materials capable of recovering and regenerating on graphene/graphene oxide substrates away from graphite ore sources in water to treat heavy metal ions.	Dr. Lê Diệu Thư	2020-2021
6	Studying the fabrication of porous composite materials containing Graphene to sweeten seawater	Dr. Vũ Thị Tần	2020-2021
7	Studying the synthesis of environmentally friendly thermoelectric materials for energy conversion	Dr. Bùi Đức Long	14/04/2017 - 14/04/2020
8	Studying the Cu (Zn, Sn) Se <sub>2</sub> nanoparticle synthesis and develop applications for light absorbing layers in high efficiency solar cells	Ass. Prof. Dr. Nguyễn Duy Cường	12/2017 - 12/2020
9	Workshop on Technical Safety and Environmental Protection with Road Traffic	School of Transportation Engineering	10/2019
10	Vietnam Electric Vehicles Forum 2019	School of Transportation Engineering	29/3/2019
11	Vietnam - Beratung - NDC Transport Initiative for Asia, electric mobility development in Vietnam	Prof. Dr. Lê Anh Tuấn	23/9/2020
12	Researching, designing and manufacturing of geothermal cooling systems for BTS mobile broadcasting stations	Ass. Prof. Dr. Phạm Gia Điềm	2019

# Energy and the community



Provide programmes for local community to learn about the importance of energy efficiency and clean energy



Provide services aimed at improving energy efficiency and clean energy for local industry



Inform and support governments on policy development related to clean energy and energy-efficient technology



Assist start-ups that foster and support a low-carbon economy or technology



**HUST**

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