Energy-related graduation projects 2020

1. Graduation Projects of Electrical and Energy Engineering Department- Smart Village Campus

https://aast.edu/en/colleges/coe/smartvillage/dept/contenttemp.php?page_id=52900035

• Academic Year 2019-2020

- Modeling, Analysis, Fabrication and Experimental Investigation of Small Horizontal Axis Wind Turbine
- Digital IoT Based Multi-Function Relay

• Academic Year 2020-2021

- Planning and designing a long-term charger positioning plan in Egypt and Implementation of a commercial low-cost Electric Vehicles Level 2 charging.
- Blind Solar Tracker.
- Smart Low Voltage Switch Gear
- Solar Energy System with IOT Automation
- Optimization System of Environmentally Friendly Micro Grids.

2. Graduation Projects of Marine Engineering Department-Abukir campus (2020-2021)

https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page_id=4800011

> Ocean thermal energy application technologies for Autonomous Underwater Vehicle

Energy-related graduation projects 2021

1. Graduation Projects of Electrical and Control Engineering Department-Abukir campus (2021-2022)

https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page_id=4500057

- ➤ Electric Automated Guided Vehicle
- Solar powered CCTV system
- Energy Management System for Smart Hotel Project
- 2. Graduation Projects of Mechanical Engineering Department-Abukir campus (2021-2022)

https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page id=5300011

- > Irrigation system combined with solar panel
- Desalination power and hydrogen production using fuel cell
- New methods for improving the efficiency of photovoltaic
- > Improving the productivity of solar still water desalination
- Hybrid vertical axis wind turbine
- Design and economic feasibility of a solar powered atmospheric air water generator
- Design of geothermal –solar combined chimney power plant for continuous power generation
- 3. Graduation Projects of Marine Engineering Department-Abukir campus (2021-2022)

https://aast.edu/en/colleges/coe/alex/dept/contenttemp.php?page id=4800011

> Energy-Efficient Ship Operation through the Ship Speed Prediction