



Energy Management Programs

EA's has implemented Energy Management Programs according to The Energy Conservation Promotion Act B.E. 2535, Ministerial Regulation Prescribing Standard, Criteria, and Energy Management Procedures In Designated Factories and Buildings B.E. 2552 and operated it by aiming to achieve targets beyond Thailand's aspiration, such as Carbon Neutrality by 2040 and Net Zero Emissions by 2050. In 2025, EA has strengthened its system to reduce energy consumption through several programs as listed below:

Energy audits

Energy audits	Description
EA Energy Audit	EA has continually conducted energy audit on a regular basis at least annually energy management. This includes in-depth analysis of our fuel consumption, unveiling various opportunities for improvement. By tracking and evaluating our energy usage. In 2025, EA has implemented energy audit to the following facilities; - Energy Absolute Public Company Limited (Kabinburi branch) - EA Bio Innovation Co.,Ltd. - Amita Technology (Thailand) Co., Ltd. - Absolute Assembly Co., Ltd.
Outcomes	-The energy audit allows EA to improve and save energy around 2,567.64 MWh per year



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Energy management project implementation in 2025

In 2025, EA group has implemented energy projects including:

Energy Projects	Description
<u>Replacement lighting</u>	Replacement of conventional lighting with LED luminaires, achieving energy savings of 17,923.13 kWh per annum
<u>Installation of a Variable Frequency Drive (VFD)</u>	Installation of a Variable Frequency Drive (VFD) inverter at pump P2105 within the production process to optimize motor speed in accordance with operational demand, replacing energy-intensive conventional valve-based control. This initiative reduced electricity consumption and extended equipment service life, delivering savings of 19,584 kWh per annum.
<u>Boiler and thermal oil boiler optimization</u>	Boiler and thermal oil boiler optimization through fine-tuning of the air to fuel ratio, improving combustion efficiency, minimizing energy losses, and reducing greenhouse gas emissions. Prior to optimization, excess oxygen levels were at 10-15%; following the adjustment, they were reduced to 3–5%, resulting in an 3% improvement in overall combustion efficiency.
<u>Solar Panel Installation Project on Rooftops Solar panels</u>	Solar panels were installed on the rooftops of office buildings, car parks, and warehouse facilities across operations in Nakhon Sawan, Phitsanulok, Chaiyaphum, Lampang, and Nakhon Si Thammarat provinces, reducing external electricity consumption by a total of 385,817.87 kWh.
<u>Floating Solar Panel Project Floating solar panels</u>	Floating solar panels were deployed on reservoir ponds in the solar power plant project area in Lopburi province, reducing external electricity consumption by a total of 35,928.60 kWh.
<u>Reduction of VMU-M units</u>	Reduction of VMU-M units within string boxes from 24 to 12 units per building, with a projected external electricity reduction of 1,746 kWh per month. During the one-month pilot conducted in 2025, actual savings of 3,000 kWh were recorded.



Energy Projects	Description
<u>Deployment of electric vehicles to replace internal combustion engine vehicles within plants</u>	Deployment of electric vehicles to replace internal combustion engine vehicles within plants, with charging powered entirely by on-site solar rooftop generation. This initiative reduced electricity consumption by 6,080.19 kWh in 2025 and achieved an average fuel consumption reduction of 1,800 litres per annum.
<u>Solar Panel Installation Project on Rooftops Solar panels (Amita)</u>	A 2.849 MW solar rooftop system was installed on manufacturing facility rooftops to supply electricity for production processes and the Energy Storage System (ESS), reducing external electricity consumption by a total of 1,700,583.33 kWh.
<u>Upgraded the central inverter control system of the solar cell power generation</u>	The Group upgraded the central inverter control system of the solar cell power generation installation to resolve underperformance issues arising from reduced battery production output. This improvement enabled the electricity generated from the 1,500 kW central system to be fully utilized in conjunction with the 1,200 kW string system. As a result, the Group is able to utilize a total of 2,700 kW of electricity generated from its solar cell system, significantly enhancing the efficiency of self-generated energy use.
<u>Optimization of the chilled water outlet temperature</u>	Optimization of the chilled water outlet temperature of the 160-tonne chiller supporting 24-hour EDP operations, adjusted from 8°C to 15°C. The total electricity savings is 404,799.60 kWh per annum.
<u>Phase Change Material</u>	EA has conducted research and development on the high value-added using the crude palm oil as a primary material. Such a method is a know-how of production developed from biodiesel production which is known as the Phase Change Materials (PCM). PCM are on demand currently in many countries that aiming to reduce energy consumption or use resources efficiency. By the way for taking crude palm oil also helping to support the palm agriculturists and create price stability of crude palm to get higher. By registered capital 400,100,000 baht.



Energy Projects	Description
<u>EA Waste Management Phuket</u>	EA has joined in submitting a joint proposal to carry out the municipal waste management of Phuket City Municipality, Phuket Province, for the purpose of producing and distributing electricity from organic waste, in order to take care of the environment and create energy security for the country. With a registered capital of 500,000,000 baht.

Awareness training

Awareness Training has proven to be a pivotal component of our holistic energy management approach. EA promotes training programs as well as shares best practices on the importance of energy conservation to our workforce. Our enhanced training programs in 2025 includes;

Training Programs	Description
<u>Person Responsible for Energy (Factory)</u>	-Training objectives: 1.To ensure understanding of roles and responsibilities under the Energy Conservation Promotion Act B.E. 2535 and to comply effectively. 2. To provide participants with knowledge and understanding of the role and responsibilities of a Person Responsible for Energy in a factory, enabling effective energy management, monitoring, and improvement to enhance energy efficiency and reduce energy consumption. -Number of Participants: 2 people -Participant target group: Engineer -Quantitative results: The test results passed 100%



Training Programs	Description
<u>Energy Conservation Policy and Basic Knowledge of Energy Management</u>	-Training objectives: To provide participants with knowledge and understanding of energy conservation policies and basic principles of energy management, enabling them to apply energy-saving practices effectively and support efficient energy use within the organization. -Number of Participants: 4 people -Participant target group: Responsible person -Quantitative results: The test results passed 100%
<u>Energy Transition and Climate Change Management (ETC)</u>	-Training objectives: 1. To enhance knowledge and understanding of energy transition and climate change, and to develop the capabilities of personnel in the public and private sectors, as well as other relevant organizations. 2. To prepare for adaptation and identify approaches for conducting business in line with global regulations during the energy transition period, as well as to facilitate the exchange of views between the public and private sectors in order to jointly enhance the competitiveness of the country and their respective organizations, and to strengthen networks and good relationships among various organizations. -Number of Participants: 2 people -Participant target group: Responsible person



Training Programs	Description
	-Quantitative results: The test results passed 100%
<u>Basic knowledge of environmental and energy management systems, and the requirements of the ISO 14001:2015 environmental standard.</u>	-Training objectives: To provide new employees with knowledge and understanding of the Environmental Management System (ISO 14001) and energy management. -Number of participants: 82 people -Participant target group: Employees at all levels -Quantitative results: The test results passed 100%
<u>Environmental Aspect Assessment (ISO 14001:2015)</u>	-Training objectives: 1. To provide participants with knowledge and understanding of Environmental Aspect Assessment in accordance with ISO 14001:2015. 2. To enable participants to identify environmental aspects and their potential impacts in workplace activities. -Number of participants: 83 people -Participant target group: Employees at all levels -Quantitative results: The test results passed 100%
<u>Quality, Environmental, Occupational Health and Safety Policy</u>	-Training objectives: To provide knowledge and understanding of the organization's Quality, Environmental, Occupational Health and Safety Policy, raise awareness, and enable proper and effective



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Training Programs	Description
	application of the policy in work practices. -Number of participants: 6 people -Participant target group: Employees at all levels -Quantitative results: The test results passed 100%