



Department of Energy

Working toward the vision of a better quality life for Filipinos through ensuring the best energy choices, DOE is mandated by RA 7638 (Department of Energy Act of 1992) to prepare, integrate, coordinate, supervise, and control all plans, programs, projects and activities of the Government relative to energy exploration, development, utilization, distribution and conservation. Since 1992, DOE has worked closely with various partners and stakeholders in formulating and implementing policies and programs to ensure sustainable, stable, secure, sufficient, and accessible energy.

www.doe.gov.ph



Department of Trade and Industry

The DTI is responsible for realizing the country's goal of globally competitive and innovative industry and services sector that contributes to inclusive growth and employment generation. Since 1987, DTI has been working to improve the business environment, increase productivity and efficiency, and enhance consumer welfare. Through strong collaboration with various stakeholders and development partners, DTI envisions a prosperous and free Philippines, occupying her rightful place in the community of nations.

www.dti.gov.ph



United Nations Industrial Development Organization

UNIDO is a specialized agency of the United Nations that promotes industrial development for poverty reduction, inclusive globalization, and environmental sustainability. UNIDO believes that in order to effectively and sustainably eradicate poverty within the next generation, integrated strategies that seek to promote economic and industrial growth within a socially – inclusive and environmentally – sustainable framework is required. UNIDO supports the vision of Inclusive and Sustainable Industrial Development (ISID) as reflected in the Sustainable Development Goals identified in the Post – 2015 Development Agenda.

www.unido.org



Global Environment Facility

The Global Environment Facility is a partnership for international cooperation where 183 countries work together with international institutions, civil society organizations and the private sector, to address global environmental issues. Since 1991, the GEF has provided \$12.5 billion in grants and leveraged \$58 billion in co-financing for 3,690 projects in 165 developing countries. For 23 years, developed and developing countries alike have provided these funds to support activities related to biodiversity, climate change, international waters, land degradation, and chemicals and waste in the context of development projects and programs. UNIDO is one of only 12 GEF implementing agencies responsible for assisting eligible governments and NGOs in the development, implementation, and management of GEF projects.

www.thegef.org



The Philippine Department of Energy (DOE), in cooperation with the Department of Trade & Industry (DTI), with technical assistance from UNIDO and funding from the Global Environment Facility is undertaking a five-year project entitled the Philippine Industrial Energy Efficiency Project (PIEEP). The project is closely in line with the plans and priorities outlined in the Philippine Development Plan 2011-2016 and the National Climate Change Action Plan (NCCAP) 2011-2028.

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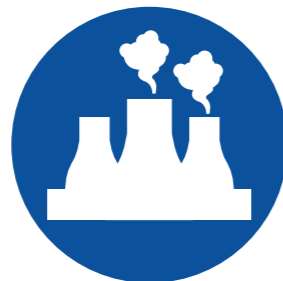
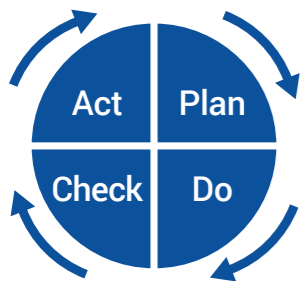
Implemented by:



Project Description

The project aims to promote sustainable energy management system and achieve energy efficiency best practices within the Philippine industrial setting with the purpose of achieving energy savings and contributing to climate change mitigation efforts. This objective will be achieved through the introduction of energy management system (EnMS) standards (compliant with ISO 50001), systems optimization (SO) for steam, compressed air, and pumps, and financial opportunities for energy efficiency investments. The GEF has provided a grant of \$3.166 million for the 5-year project period.

Project Components and Outputs



ENERGY MANAGEMENT SYSTEM compliant with ISO 50001

- Policy support
- National awareness campaign
- Peer - to - peer network
- Trained 40 local experts on EnMS
- Trained 500 factory personnel on EnMS
- Implementation of 40 EnMS projects in industrial facilities
- Recognition program

ENERGY SYSTEMS OPTIMIZATION

- Training materials and tools developed
- Trained 40 local experts on SO
- Trained 400 technical factory personnel on SO
- Trained 40 vendors on SO
- Implementation of 40 SO projects in industrial facilities

FINANCIAL CAPACITY ENHANCEMENT

- Harmonized energy efficiency project evaluation criteria
- Training materials for financing institutions and industry management developed
- Packaging of loans for energy efficiency projects

Focus Sectors



Food & Beverage



Basic Metals & Steel



Chemicals



Pulp & Paper Products

Project Impact

The project will impact Philippine industry through the adoption of EnMS which provides a proven policy-driven market-based tool and best-practice method to integrate energy efficiency into industry corporate culture and daily management, as well as SO that focuses on system-wide improvements for efficiency gains, rather than focusing only on individual components. Through this approach, the project is bringing new concepts and opportunities to the Filipino industries in;

- Reducing energy consumption and energy cost
- Lowering GHG emissions
- Improving operational efficiency
- Increasing competitiveness

The enhanced capacity of local experts and factory personnel trained under the project will serve the market in the fields of EnMS and SO beyond the project period.

Direct Environmental Benefits

261,754 tCO₂ equivalent emissions reduction from fuel and electricity savings.