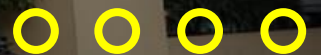


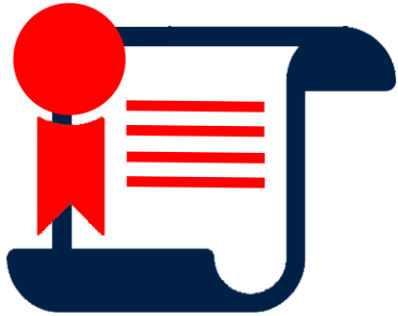


ECONOMY UPDATES (PHILIPPINES)

DIR. PATRICK T. AQUINO, CESO III
ENERGY UTILIZATION MANAGEMENT BUREAU



NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)



Republic Act No. 11285 Energy Efficiency and Conservation (EEC) Act

The EEC Act institutionalizes energy efficiency and conservation, enhance the efficient use of energy, and grant incentives to energy efficiency and conservation projects.

Republic Act No. 11285
Energy Efficiency and
Conservation Act

Approved and signed by President Rodrigo Roa Duterte on 12 April 2019 and effective on 22 May 2019.

NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

IMPLEMENTATION STATUS OF THE EEC ACT IN THE PHILIPPINES



As of February 2023, the DOE has issued the following issuances

38 POLICY ISSUANCES

- 16 Department Circulars (DC)
- 7 Department Orders (DO)
- 1 Memorandum Circular (MC)
- 6 IAEECC Resolutions
- 7 Implementing Guidelines

Title of Issuance	Date of Effectivity
DC2019-11-0014: Implementing Rules and Regulations of Republic Act No. 11285 (Energy Efficiency and Conservation Act)	December 21, 2019
DC2020-06-0015: Prescribing the Guidelines of the Philippine Energy Labeling Program (PELP) for Compliance of Importers, Manufacturers, Distributors and Dealers of Electrical Appliances and other Energy-Consuming Products (ECP)	July 11, 2020
DC2020-06-0016: Prescribing the Minimum Energy Performance for Products (MEPP) Covered by the Philippine Energy Labeling Program (PELP) for Compliance of Importers, Manufacturers, Distributors, Dealers and Retailers of Energy-Consuming Products (ECPs)	July 11, 2020
DC2020-09-0018: Guidelines in the Administration, Classification of Energy Service Company (ESCO)	October 09, 2020
DC2020-10-0023: Prescribing Policy Framework for the Development of the Fuel Economy Rating, Fuel Economy Performance, and Related Energy Efficiency and Conservation Policies for the Transport Sector and other Support Infrastructures	December 12, 2020
DC2020-12-0026: Adoption of the Guidelines on Energy Conserving Design of Buildings	March 06, 2021
DC2021-01-0001: Guidelines for the Qualifications, Assessments, Registration and Certification of Energy Conservation Officers (CECO), Energy Managers (CEM) and Energy Auditors (EA)	March 06, 2021
DC2021-05-0011: Guidelines in the Endorsement of Energy Efficiency Projects to the Board of Investment for Fiscal Incentives	June 17, 2021
DC2021-07-0023: Providing a Policy Framework on the Guidelines for the Development, Establishment, and Operation of Electric Vehicle Charging Stations (EVCS) in the Philippines	August 19, 2021
DC2022-03-0004: Guidelines for the Endorsement of Energy Efficiency Strategic Investments to the Board of Investments for Fiscal Incentives	April 06, 2022
DC2022-03-0005: Guidelines for the Recognition of Testing Laboratories for the Examination, Testing & Verification of the Energy Efficiency of Energy-Consuming Products (ECPs) & the Fuel Efficiency of Transport Vehicles, Including the Issuance of Certificate of Endorsement to the Board of Investments (BOI) for Fiscal Incentives	April 08, 2022
DC2022-03-0006: Adoption of Training Regulations Certification Process for Energy Auditors (EAs)	April 06, 2022
DC2022-03-0007: Adoption of Training Regulations for the Certification of Energy Conservation Officers (ECOs)	April 28, 2022
DC2022-03-0008: Adoption of Training Regulations and Prescribing Certification Process for Training Institutions and Energy Managers (EMs)	April 28, 2022
DC2022-04-0013: Adopting of Certification Guidelines for Energy Audit Conducted by Firm, Partnership, Corporation, and Sole Proprietorship (FPCS)	May 19, 2022
DC2022-11-0035: Expanding the Coverage of the Philippine Energy Labeling Program (PELP) for the Compliance of Importers, Manufacturers, Distributors, Dealers and Retailers of Energy Consuming Products (ECPs)	December 16, 2022
DO2020-01-0001: Organizing the Inter-Agency Energy Efficiency and Conservation Committee (IAEECC)	January 09, 2020
DO2020-01-0002: Operationalization of the Strengthening of the Energy Utilization Management Bureau (EUMB), Support Services and Field Offices in Accordance with Republic Act No. 11285 or the Energy Efficiency and Conservation Act (EEC Act)	January 28, 2022

NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

IMPLEMENTATION STATUS OF THE EEC ACT IN THE PHILIPPINES



As of February 2023, the DOE has issued the following issuances

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- 7 Implementing Guidelines

Title of Issuance	Date of Effectivity
DO2020-06-0008: Guidelines on Reassignment of DOE Personnel not from EUMB who have signified Interest to be Part of the Strengthened or Reorganized EUMB	June 20, 2020
DO2022-04-0006: Guidelines on the Endorsement of Government Energy Efficiency Projects to the IAEECC Pursuant to the GEMP Guidelines	April 07, 2022
DO2021-09-0014: Guidelines of the Energy Efficiency Excellence Awards	March 22, 2022
DO2022-03-0005: Guidelines on the Issuance of the Certificate of Energy Efficiency Cost Reductions	September 15, 2021
DO2023-01-0001: Institutionalizing the Energy Management Team (EMT) to Develop an Energy Management System (EnMS)	January 10, 2023
MC2020-05-001: Directing All Designated Establishments Under Commercial, Industrial and Transport Sectors to Submit Energy Consumption Reports	June 11, 2020
IAEECC Resolution No. 1, s. 2020: Directing All Government Agencies, including the LGUs and Foreign Service Posts, to Comply with GEMP, Ordering the Department of Energy to Conduct Energy Audits and Spot Checks, and Submit Proposed Improvements to the GEMP	October 24, 2020
IAEECC Resolution No. 2, s. 2021: Directing All Government Agencies, including the LGUs and Foreign Service Posts, to use Energy Efficient Light Emitting Diode (LED) Lamps in Government Buildings and Facilities as a Requirement for Compliance to the Government Energy Management Program (GEMP)	June 17, 2021
IAEECC Resolution No. 3, s. 2021: Directing All Government Entities including the LGUs and Foreign Service Posts, to Use Inverter Type Air-Conditioning Units or Similar Equivalent Technologies in Government Buildings and Facilities as a Requirement for Compliance to the GEMP	October 07, 2021
IAEECC Resolution No. 4, s. 2021 : Enjoining The Council of Good Local Governance to Consider, Include and Adopt the Energy Efficiency and Conservation (EEC) as one of the Areas in the Criteria per Section 7 of Republic Act No. 11292-"The Seal of Good Local Governance Act of 2019"	December 16, 2021
IAEECC Resolution No. 5, s. 2022: Directing All Government Entities (GEs), including the Local Government Units (LGUs) and Foreign Service Posts to Observe the Approved GEMP Guidelines	February 11, 2022
IAEECC Resolution No. 6, s. 2022 Recommending to the Governance Commission for GOCCs to Consider, Include, and Adopt EEC as One Criteria in the Performance Evaluation System for GOCCs in the Grant of Performance-Based Incentives	April 04, 2022
Implementing Guidelines of The Philippine Energy Labeling Program for Lighting Products	June 18, 2021
Implementing Guidelines of The Philippine Energy Labeling Program for Television Sets	June 18, 2021
Implementing Guidelines of the Philippine Energy Labeling Program for Refrigerating Appliances	June 18, 2021
Implementing Guidelines of the Philippine Energy Labeling Program for Air Conditioners	June 18, 2021
Implementing Guidelines of The Philippine Energy Labeling Program on Registration, Enforcement, Monitoring, Verification, and Compliance Mechanism	June 18, 2021
Implementing Guidelines for the Specification, Dimension and Presentation of Energy Label under the Philippine Energy Labelling Program	July 08, 2022

NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

MINIMUM ENERGY PERFORMANCE FOR PRODUCTS (MEPP)

Department Circular No. DC2020-06-0016

Prescribing the Minimum Energy Performance for Products (MEPP) covered by the Philippine Energy Labeling Program (PELP) for Compliance of Importers, Manufacturers, Distributors, Dealers and Retailers of Energy-Consuming Products

Obligations under MEP

Sale, lease and import of MEP-compliant energy-consuming products



Energy Consumption	Minimum CSPF
Below 3.33 kW	3.08
3.33 kW- 9.99 kW	2.81



LED Type	Minimum Efficacy (lm/W)
Non-Directional	80
Linear	90



Type	Minimum EEF
Single door	200
Two-door Manual Defrost	230
Frost-free	180



Power Input	Minimum power (W)
Stand-by power	> 1.0

Note: For lighting products, MEPP for CFL (Bare and Encapsulated), LFLs (Halophosphate, Triphosphor, Triphosphor T5, SCFL (Circular Halophosphate and Circular Triphosphate) are indicated in Annex A of Department Circular No. DC2020-06-0016

NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)



PHILIPPINE ENERGY LABELING PROGRAM

National labeling system for energy consuming products (ECPs) based on the energy performance

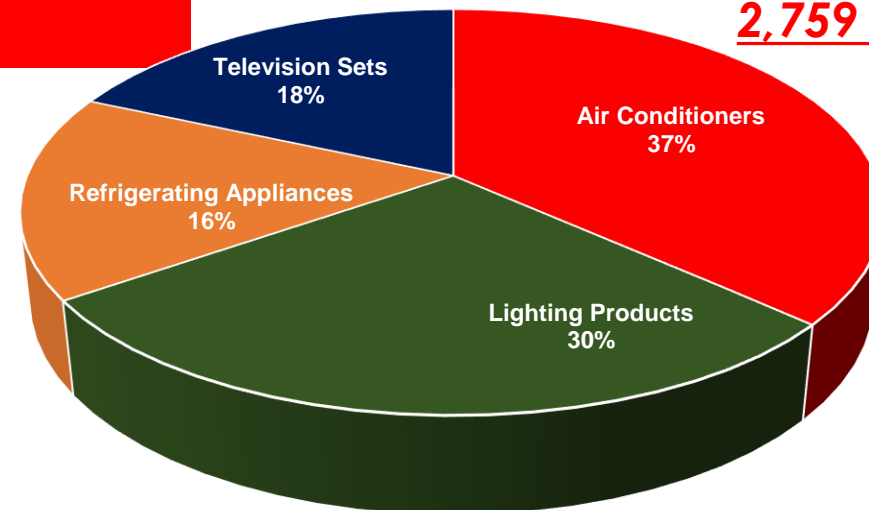
Summary of PELP Registrations

REGISTRATION	NO. OF APPROVED REGISTRATION	NO. OF PROCESSING DAYS
COMPANY REGISTRATION	97	3 days
PRODUCT REGISTRATION	5010	7 days
ENERGY LABEL ISSUANCE	2759	3 days
CERTIFICATE OF EXEMPTION ISSUANCE	2240	3 days

"Prescribing the Guidelines of the Philippine Energy Labeling Program (PELP) for Compliance of Importers, Manufacturers, Distributors and Dealers of Electrical Appliances and other Energy Consuming Products (ECP)"

PELP Covered Products

- Room Air Conditioners
- Lighting Products
- Refrigerating Appliances
- Television Sets



NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

GOVERNMENT ENERGY MANAGEMENT PROGRAM

The GEMP refers to the government-wide program of reducing the monthly consumption of electricity and petroleum products. This is achievable through efficiency and conservation in electricity use as well as fuel use of government vehicles and the employment of renewable energy systems, among others.

GOVERNMENT ENTITIES (GE) GEMP COMPLIANCE

834 Government Offices undergone randomly spot-check by EUMB and DOE Field Offices since December 2022

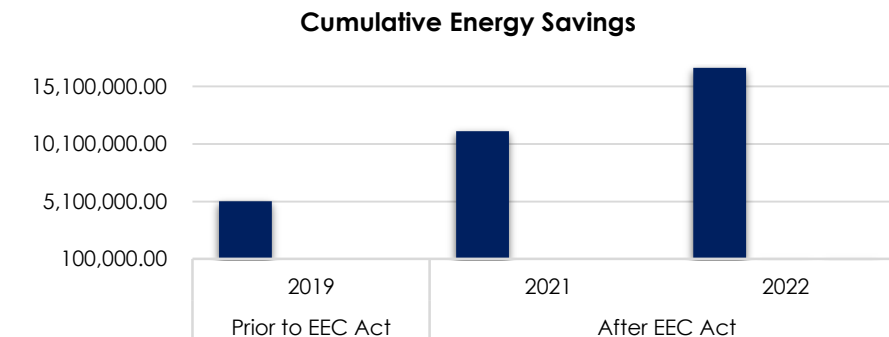
Since 2010, **electricity savings reached 284.93 GwH** (Avoided the establishment of a 131.5 MW powerplant). **Fuel savings reached 422,350 liters** (gas & diesel)

Digitalization of GEMP compliance of government offices covering over **7,000 registered users**.

Compliance to GEMP				
Period	Cumulative No. of Energy Audit (No. of GEs)	Spot Check (No. of GEs)	Awareness to GEMP*	
			No. GEs	%
Prior EEC Act (2010 - 2019)	272	0	349	4.69%
After EEC Act (2020 - February 2023)	834	826	3,047	40.95%

*Includes Coordination Meeting, Mentoring, IECs, and Hands-on Train on GEMP System

** Total Number of GEs identified at 7,441



NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

DESIGNATED ESTABLISHMENTS

DEs refers to a private entity identified as energy intensive industries.

Memorandum Circular No. MC2020-05-0001

Directing All Designated Establishments under Commercial, Industrial and Transport Sectors to Submit Energy Consumption Reports

Commercial Sector

Industrial Sector

Transport Sector

312 GWH

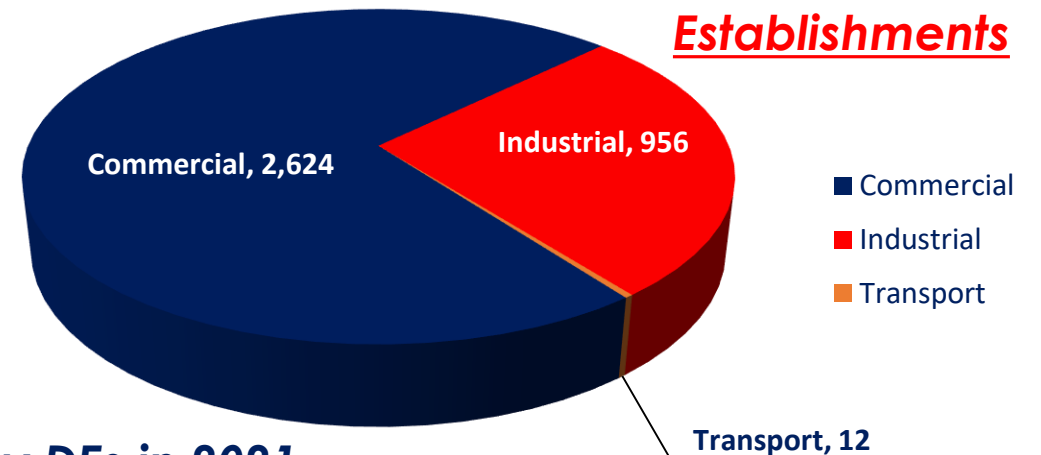
Energy savings from the energy efficiency projects initiated by DEs in 2021

- Type 2 DEs – Annual Energy Consumption of **more than 4,000,000 kWh**
- Type 1 DEs – Annual Energy Consumption of **more than 500,000 kWh but less than 4,000,000 kWh**
- Other Type DEs – Annual Energy Consumption of **at least 100,000 kWh but less than 500,000 kWh**

Compliance of DEs by Sector

Based on the 2021 Compliance of DEs

3,592 Designated Establishments



NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

ENERGY SERVICE COMPANIES (ESCO)

Department Circular No. DC2020-09-0018

Guidelines, Rules, and Procedures in the Administration, Classification, and Certification of Energy Service Companies (ESCO)

45

ESCOs are registered to the DOE as of February 2023

EE Projects through ESCOs:

Energy Audit for Chiller System

Replacement of Defective Capacitor Units

Solar PV Systems Installation

Conversion of Air-cooled Screw Type Chillers including ancillaries

Supply & Installation of Active Harmonic Filters

HVAC Retrofitting

Supply and Installation of Automatic Capacitor Bank

Street Lighting Audit, Design, Installation and Maintenance

Commissioning of Vapor Absorption Machine

Operation and Maintenance of Diesel Power Plant

Php628.63M total Project Cost from ESCO Implemented EE Projects with resulting Energy Savings of 7.65M kWh as of 2021

Note: The above-mentioned sample EE Projects were undertaken by six (6) Certified Energy Service Companies (ESCOs) with the corresponding investment cost and equivalent energy savings

NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

ENERGY EFFICIENCY PRACTITIONERS

As of February 2023, there are 392 Registered Certified Energy Efficiency Practitioners to the DOE. Breakdown are as follows:



229 Certified Energy Manager

62 Certified Energy Conservation Officer

101 Certified Energy Auditor

Certified Energy Manager (CEM)

Department Circular No. 2022-03-0008
Adoption of Training Regulations and Prescribing Certification Process for Training Institutions and Energy Managers (EMs)

Certified Energy Conservation Officer (CECO)

Department Circular No. 2022-03-0007
Adoption of Training Regulations for the Certification of Energy Conservation Officers (ECOs)

Certified Energy Auditor (CEA)

Department Circular No. 2022-03-0006
Adoption of Training Regulations Certification Process for Energy Auditors (EAs)

NATIONAL ENERGY EFFICIENCY AND CONSERVATION PROGRAM (NEECP)

ENERGY EFFICIENCY EXCELLENCE AWARDS

Department Order No. DO2021-09-0014
Guidelines on the Energy Efficiency Excellence Awards



EEE Awards on Energy Management for Industries and Buildings

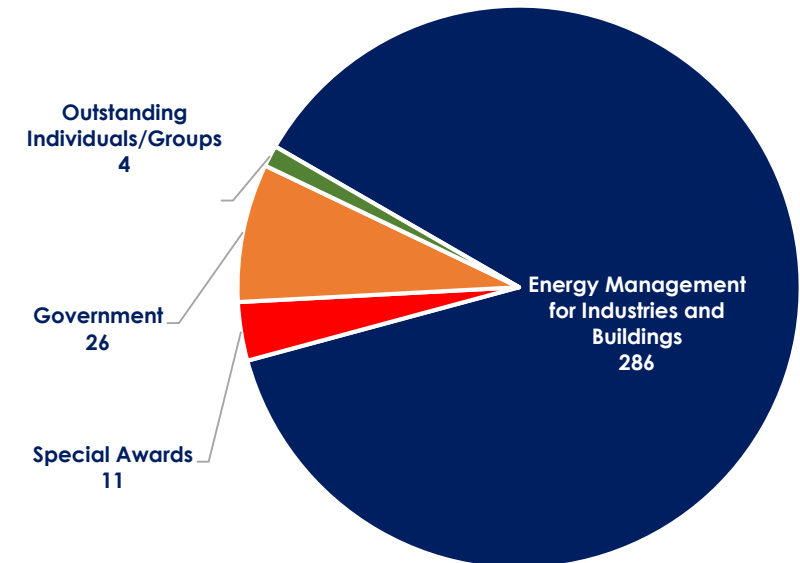
EEE Awards for Outstanding Individual/Groups

EEE Awards for Government

Special Awards for EEE

24

Total Awardees for the 2022 EEE Awards from the 327 received Entries



ELECTRIC VEHICLE INDUSTRY DEVELOPMENT ACT (EVIDA)

ELECTRIC VEHICLE INDUSTRY DEVELOPMENT ACT (EVIDA)

Comprehensive Roadmap for the Electric Vehicle Industry (CREVI)

CREVI is the *national development plan* for the EV industry with an annual work plan to accelerate the development, commercialization, and utilization of EVs in the Philippines. CREVI has the following components:

- Electric Vehicles and
- EV Charging Stations
- Manufacturing
- Research and Development
- Human Resource Development

SALIENT FEATURES OF EVIDA - IRR

- Electric Vehicle and EV Charging Station
- Electricity for EV Charging Station
- EV Charging Station Provider
- Mandatory EV Share in Corporate and Government Fleets
- Dedicated Parking Slots for Evs
- Fiscal and Non-Fiscal Incentives
- Prohibited Acts, Fines, and Penalties



THANK YOU!

