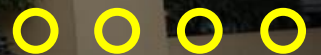
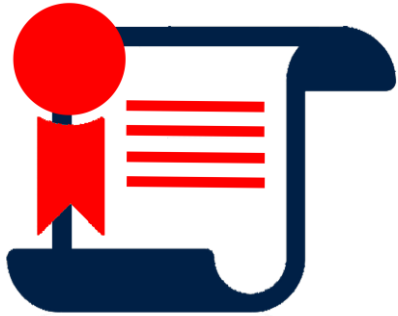




Energy Efficiency and Conservation (EE&C) Policies and Measure in Power Sector

DEPARTMENT OF ENERGY





Republic Act No. 11285 Energy Efficiency and Conservation (EE&C) Act

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

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

Republic Act No. 11285

Energy Efficiency and
Conservation Act

EE&C Policies and Measure in Power Sector

IMPLEMENTATION STATUS OF THE EEC ACT IN THE PHILIPPINES



As of 30 September 2022, the DOE has issued the following issuances

34 POLICY ISSUANCES

- 15** Department Circulars (DC)
- 6** Department Orders (DO)
- 1** Memorandum Circular (MC)
- 6** IAEECC Resolutions
- 6** 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 01, 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 01, 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
Department Circular 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 06, 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
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

EE&C Policies and Measure in Power Sector

IMPLEMENTATION STATUS OF THE EEC ACT IN THE PHILIPPINES



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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
DO2022-03-0005: Guidelines on the Issuance of the Certificate of Energy Efficiency Cost Reductions	March 22, 2022
DO2021-09-0014: Guidelines of the Energy Efficiency Excellence Awards	September 15, 2021
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	June 23, 2021

EE&C Policies and Measure in Power Sector



Energy Service Company (ESCO)

Department Circular No. DC2020-09-0018

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

ESCOs are partners in compliance with the EEC Act, as they offer multi-technology services and goods towards developing and designing EE projects, delivering and guaranteeing energy savings, and ensuring cost-effective and optimal performance.

40 ESCO registered to
DOE as of
September 2022

- 1 Energy Integrated Systems and Support Services Inc
- 2 Tri-Sky Link Sales and Services, Inc.
- 3 Santos Knight Frank, Inc.
- 4 Engie Services (Philippines)
- 5 Design Science Inc.
- 6 Meralco Energy, Inc.
- 7 Tekno Centrix Corporation
- 8 Wisenergy, Inc.
- 9 Concepcion Carrier Air Conditioning Company – Alstra Division
- 10 Filairco, Inc./Trane Philippines
- 11 Beyond Energy Solutions & Techonology, Inc.
- 12 Total Renewable Energy Efficiency Solutions Corp.
- 13 Eascorp Powerplant Services, Inc.
- 14 EconoServ Solutions International, Inc.
- 15 Upgrade Energy Philippines, Inc.
- 16 WESTCO Electrical & Equipment Corp.
- 17 OSP-ESCO International, Inc.
- 18 Alpha Centauri Electrical Services
- 19 Exquis Electrical Services & Supplies Company
- 20 First Gen Energy Solutions
- 21 EP Solutions, Inc.
- 22 Enercon Systems International Philippines Corp.
- 23 Buskowitz Finance, Inc.
- 24 Greenergy Development Corporation
- 25 Renesons Energy Polillo, Inc.
- 26 Mase Power Corporation
- 27 Stratcon Power Services Philippines, Inc.
- 28 Signify Philippines, Inc.
- 29 PNOC-Renewables Corporation
- 30 Navitas Energy Services, Inc.
- 31 TS-i Energy Solutions Corp.
- 32 Accelence Consulting, Inc.
- 33 Thermal Solutions, Inc.
- 34 Pi Energy Inc.
- 35 CEMKS UK PHILS. LTD. CORP.
- 36 Vega Energy Services
- 37 S.Y. Industrial Corporation
- 38 FVMapile Incorporated
- 39 Adventenergy Inc.
- 40 Sen Tek Energy Solutions Inc.

EE&C Policies and Measure in Power Sector



Fiscal Incentives

This Department Circulars shall establish the guidelines, rules and procedures in the endorsement of energy efficiency projects as well as the procedures and criteria for the evaluation, approval, and endorsement of the EE Strategic Investments covering New and Expansion of EE Projects to the BOI for the availment of Fiscal Incentives.

Department Circular No. DC2021-05-0011

Guidelines on the Endorsement of Energy Efficiency Projects to the Board of Investments (BOI) Fiscal Incentives



Simple Energy Efficiency Projects

Projects that involve new installation, upgrading or retrofitting of a specific equipment of devices in the system



Complex Energy Efficiency Projects

Projects that involve new installation, retrofitting, or upgrading of system or a combination of a systems



The EE Project must be able to meet the minimum 15% project boundary and a minimum Project Investment Cost of ₱ 10,000,000.00.

Department Circular No. DC2022-03-0004

Guidelines for the Endorsement of Energy Efficiency Strategic Investments to the Board of Investments for Fiscal Incentives



New Energy Efficiency Projects

Innovative EE projects designed to reduced energy consumption of costs



Expansion of Energy Efficiency Projects

Additional EE projects to an existing and/or on-going EE project designed to further increase energy savings.

Project Application

20 Days Processing Time

DOE Endorsement to BOI



Demand-Side Management

A program that consists of a broad range of planning, implementing and monitoring of activities designed to encourage end-users to modify their levels and patterns of electricity consumption to achieve higher system efficiency

Republic Act No. 11285, Chapter VII, Section 24

The Department of Energy shall pursue a DSM program for the reduction of energy consumption through effective load management resulting to the decrease of power demand and the migration of power demand from peak to off-peaks periods or such measures undertaken by distribution utilities to achieve efficiency in the utilization of fixed infrastructures in the systems.





Demand-Side Management

OBJECTIVES

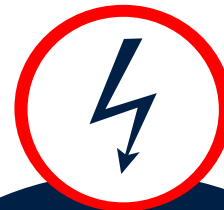
INSTITUTIONALIZE DSM

To establish and institutionalize the partnership between Distribution Utilities and energy end-users in implementing DSM programs through an Integrated DSM approach : Demand Response, Net Metering, ILP, Self-Generation, Self-Storage, and Smart Grid Policies.



ADOPT EFFICIENT AND EFFECTIVE PRACTICES

To induce consumers of electricity to adopt measures to effect changes in energy consumption and utility load shape in a most efficient and cost-competitive manner



REDUCE ELECTRICITY CONSUMPTION

To reduce energy consumption through effective load management resulting to the decrease of power demand and shift from peak to off-peak periods delaying the need for investments in the power system to meet demand requirements;

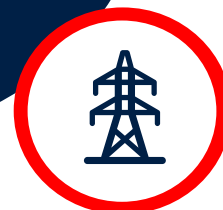
REDUCE CARBON FOOTPRINT AND GREENHOUSE GAS EMISSIONS

To promote reduction of energy use, leading to reduced greenhouse gas emissions by increasing efficiency in the generation, transmission and distribution of electricity to achieve social and environmental goals.



INCREASE SYSTEM RELIABILITY

To mitigate system emergencies by preventing power outages and increasing system reliability by offering a set of alternatives for optimizing resources and providing flexible options for future business that results to reduced operating costs and increase cost-competitiveness.





Energy Efficiency Programs

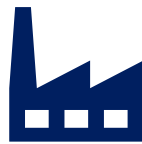


The Philippines continuous to improve existing efficiency programs for the electric power sector.

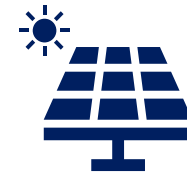


Systems loss reduction for DUs from 6.5% to 5.5% for private DUs

12% to 8.25% for electric cooperatives through ERC.



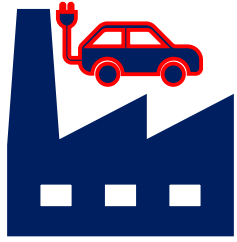
Operational improvements for powerplants which include hybridization for off-grid areas or pairing it with RE systems



increase in heat rate for thermal powerplants



study on the introduction on MEP for distribution transformer arising from APEC 2018 study.



ELECTRIC VEHICLE INDUSTRY DEVELOPMENT ACT (EVIDA)

The EVIDA provides for the development of the electric vehicle industry in the Philippines.

Republic Act No. 11697

Lapsed into law on 15 April 2022 and take effect on 11 May 2022

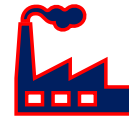


Comprehensive Roadmap for the Electric Vehicle Industry (CREVI)

- 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



EVs and Charging Stations



Manufacturing



Research and Development



Human Resource Development

Thank you



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