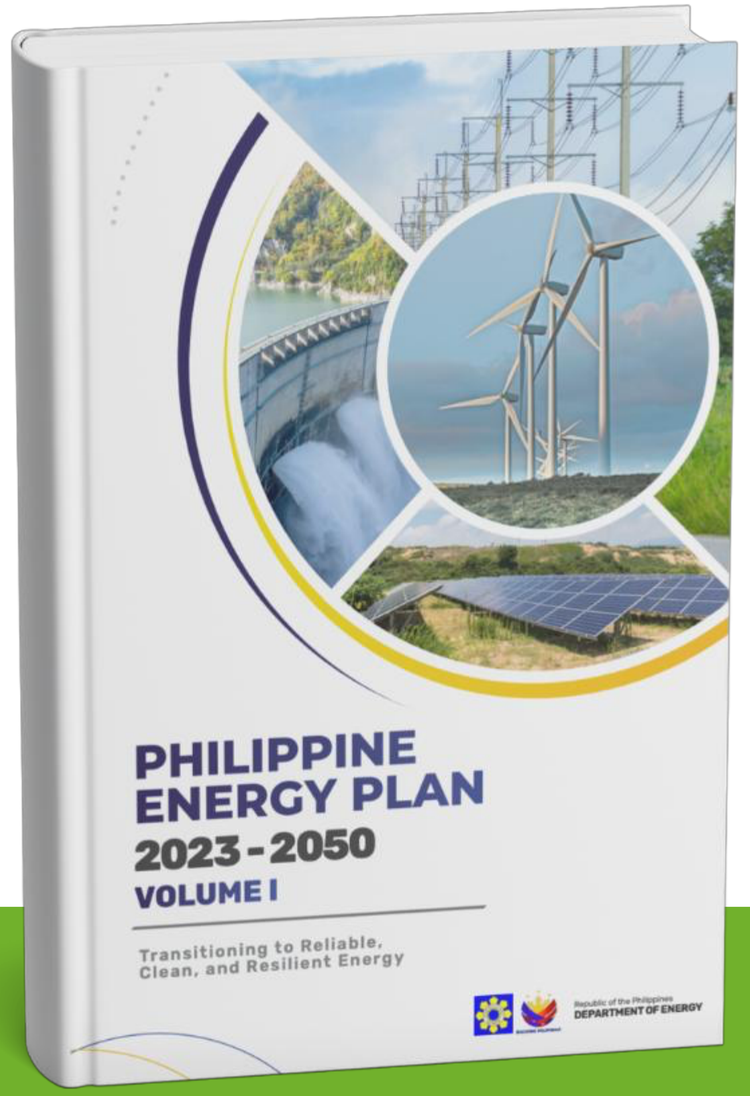
# PHILIPPINES
# Country Report


PRESENTED BY

**DANIEL COLLIN G. JORNALES, PHD**
**ENERGY UTILIZATION MANAGEMENT BUREAU**
**DEPARTMENT OF ENERGY**

# EEC Act Implementation Updates




## Philippine Energy Plan (PEP)

Embodies the principles of inclusivity, resilience, and sustainability
Targets to increase renewable energy share in the power generation mix to 35% by 2030, 50% by 2040, and more than 50% by 2050.

**REFERENCE SCENARIO**

- 35% RE share in power Generation mix by 2030
- 50% RE by 2040-2050

**CLEAN ENERGY SCENARIO**
(High RE with low OSW + Nuclear + Repurposing)

- 35% RE share by 2030, 50% RE by 2040, more than 50% by 2050
- Coal repurposing
- Nuclear capacity of 1,200 MW by 2032, 2,400 MW by 2035 and 4,800 MW by 2050
- 19 GW of OSW by 2050

**CLEAN ENERGY SCENARIO**
(High RE with high OSW + Nuclear + Repurposing)

- 35% RE share by 2030, 50% RE by 2040, more than 50% by 2050
- Coal repurposing
- Nuclear capacity of 1,200 MW by 2032, 2,400 MW by 2035 and 4,800 MW by 2050
- 50 GW of OSW by 2050

## EEC Act Implementation Updates

# Republic Act No. 11285

Energy Efficiency and Conservation (EEC) Act and Issuances

The EEC Act institutionalizes energy efficiency and conservation as a national way of life, enhance the efficient use of energy , and grant incentives to energy efficiency and conservation projects.

Approved and signed by President Rodrigo Roa Duterte on 19 April 2019 and effective on 22 May 2019.

# 65 Policy Issuances

**Designated Establishments (DE)**

**Government Energy Management Program (GEMP)**

**Philippine Energy Labelling Program (PELP)**

**Vehicle Fuel Economy Labelling Program (VFELP)**

## EEC Act Implementation Updates

# Designated Establishments

| Typology | Commercial | Industrial | Transport |
|---|---|---|---|
| Other DE | <50,000 kWhe | <50,000 kWhe | <50,000 kWhe |
| Type 1 DE | 50,001 kWh – 500,000 kWh | 50,001 kWh – 1,000,000 kWh | 50,001 kWh – 500,000 kWh |
| Type 2 DE | 500,001 kWh – 4,000,000 kWh | 1,000,001 kWh – 8,000,000 kWh | 500,001 kWh – 4,000,000 kWh |
| Type 3 DE | More than 4,000,001 kWh | More than 8,000,001 kWh | More than 4,000,001 kWh |

# Duties and Responsibilities

- Submit Annual Energy Utilization Report (AEUR) and Annual Energy Efficiency and Conservation Report (AEECR) every 15 of April every year at the DOE DE Online Submission Portal (https://de.doe.gov.ph)
- Integrate an Energy Management System policy into the business operation based on ISO 50001 or any similar framework.
- Employ a Certified Energy Manager (CEM) for Type 1, 2, and 3 DEs with a Certified Energy Conservation Officer (CECO) as a recommended support staff.

# 9,278 Reports

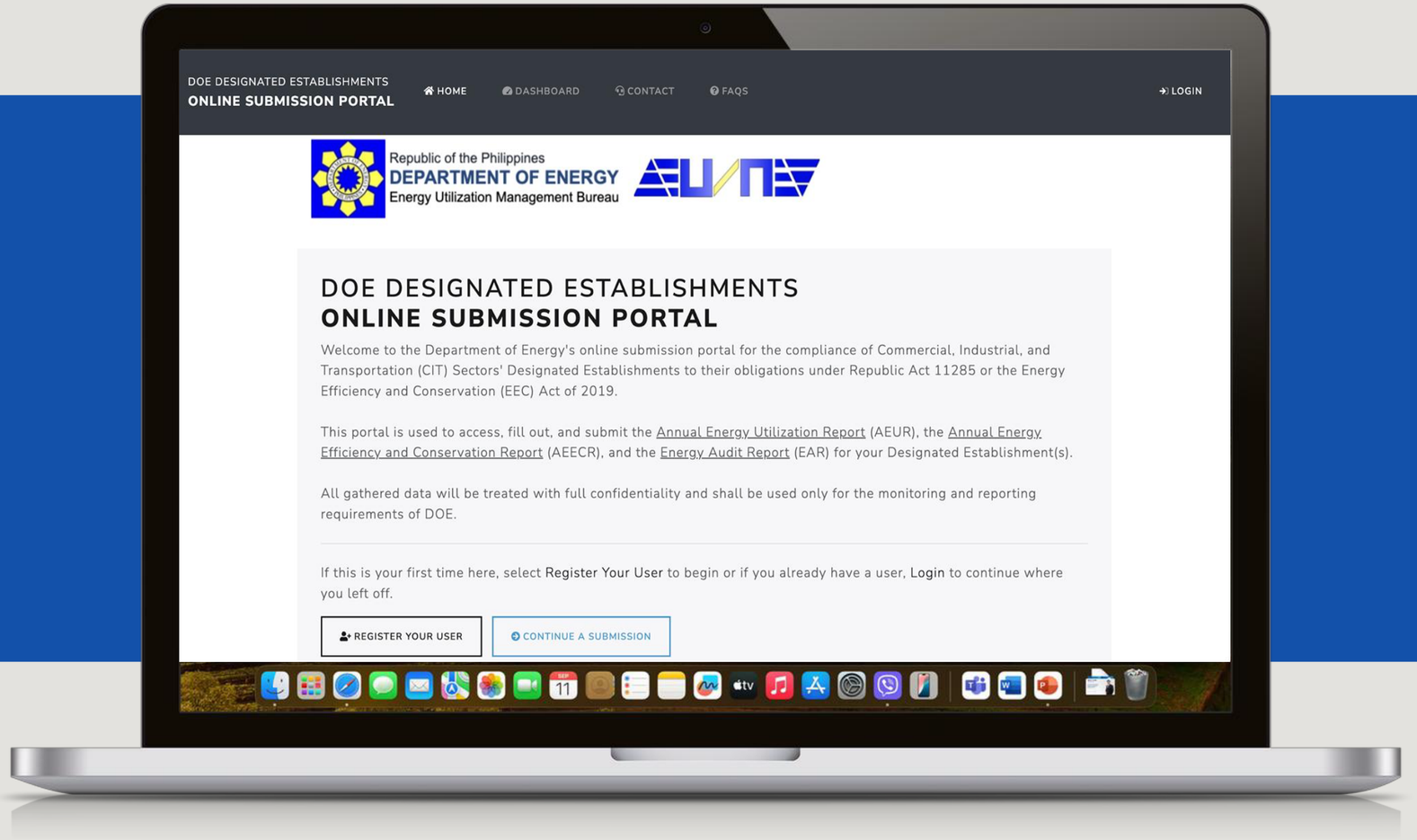
**7,350**
**COMMERCIAL**

**1,843**
**INDUSTRIAL**

**85**
**TRANSPORT**

# EEC Act Implementation Updates

# DEOS Portal




**Designated Establishments (DE) are enjoined to submit their reportorial requirements in the DE Online Submission (DEOS) Portal**

**https://de.doe.gov.ph**

# Reportorial Requirements of Designated Establishments

## ANNUAL ENERGY UTILIZATION REPORT (AEUR)

| | |
|---|---|
| **Inclusive Dates of Submission** | January 2023 to December 2023 |
| **Total Number of Male Employees** | 21,122 |
| **Total Number of Female Employees** | 23,555 |
| **Activity Areas** | • Activity Area 1<br>• Activity Area 2 |
| **Auxiliary Activity Areas** | • Auxiliary Service Area1<br>• GEnset Room |

PART A: ENERGY CONSUMPTION IN BUSINESS ACTIVITY AREA

| Energy Source (Unit) | Activity Area 1 | Activity Area 2 |
|---|---|---|
| Electricity (kWh) | 50,000 | 25,000 |

PART E: ENERGY CONSUMPTION IN TRANSPORTATION

| Fuel Type (unit) | Quantity | Activity |
|---|---|---|
| Diesel (L) | 5,500 | shuttle service |
| Diesel (L) | 25,000 | Hauling for loading of products |

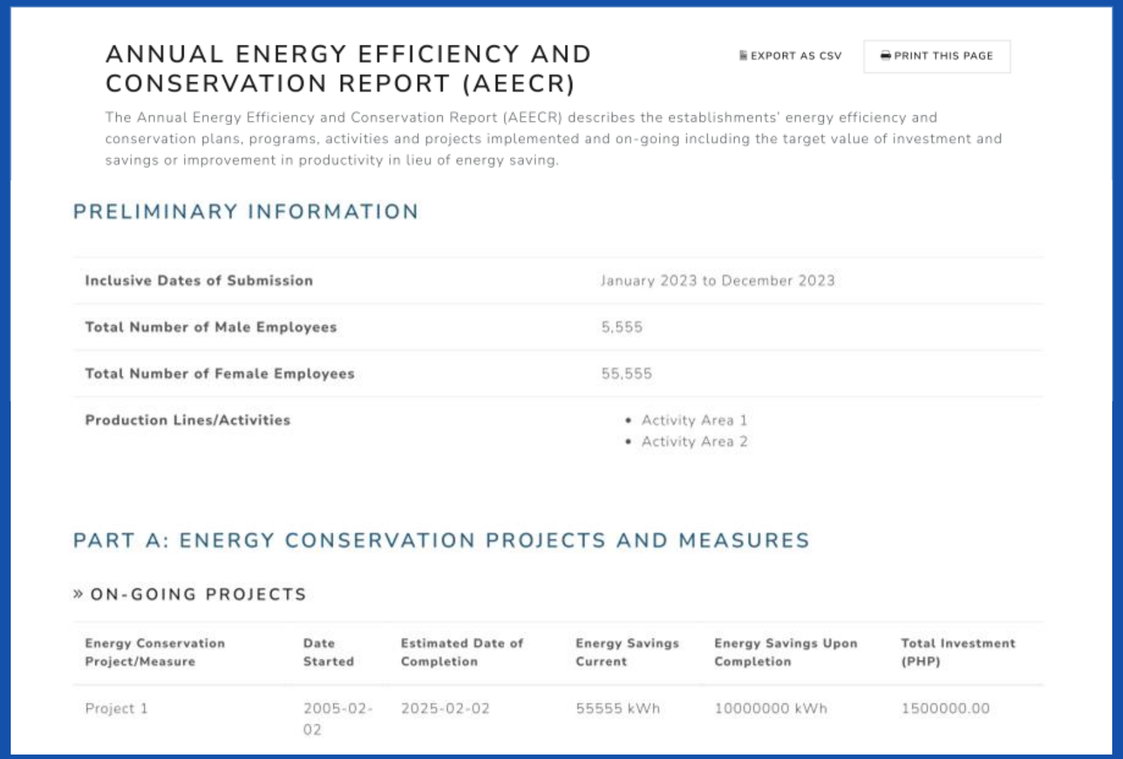
All DEs are required to submit their AEUR. This report shall include all **fuel consumed by DEs**.

The report identifies specific activity areas of each DEs and their corresponding product output. This permits the identification of their **specific energy consumption.**

The fuel used for **transportation**, **electricity generation**, **purchased electricity**, and **waste oil utilization** are also included in the AEUR.

# Reportorial Requirements of Designated Establishments

## ANNUEL ENERGY EFFICIENCY AND CONSERVATION REPORT (AEECR)



ANNUAL ENERGY EFFICIENCY AND CONSERVATION REPORT (AEECR)

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The Annual Energy Efficiency and Conservation Report (AEECR) describes the establishments' energy efficiency and conservation plans, programs, activities and projects implemented and on-going including the target value of investment and savings or improvement in productivity in lieu of energy saving.

PRELIMINARY INFORMATION

| | |
|---|---|
| **Inclusive Dates of Submission** | January 2023 to December 2023 |
| **Total Number of Male Employees** | 5,555 |
| **Total Number of Female Employees** | 55,555 |
| **Production Lines/Activities** | • Activity Area 1<br>• Activity Area 2 |

PART A: ENERGY CONSERVATION PROJECTS AND MEASURES

» ON-GOING PROJECTS

| Energy Conservation Project/Measure | Date Started | Estimated Date of Completion | Energy Savings Current | Energy Savings Upon Completion | Total Investment (PHP) |
|---|---|---|---|---|---|
| Project 1 | 2005-02-02 | 2025-02-02 | 55555 kWh | 10000000 kWh | 1500000.00 |

The AEECR provides for the detailed **historical energy performance** and the **various implemented EEC projects and measures of the facilities**.

The report requires DEs to indicate their **5-year backtracking** report which include all fuel consumed by the facility

**All ongoing and completed EEC projects and Initiatives** are likewise required to be submitted by the facility

# Reportorial Requirements of Designated Establishments

## ENERGY AUDIT REPORT (EAR)

AUDIT INFORMATION

| | |
|---|---|
| **DE Name** | Comapny111 |
| **DE Address** | DTadresss222 |
| **Name of Person Submitting the Report** | leif santos ( vit.leif.santos@gmail.com )<br>*Certified Energy Manager (CEM)* |
| **Level of Energy Audit Conducted** | Level 1 |
| **Energy Auditor** | Sample Dev ( *Certified Energy Auditor (CEA)* ) |
| **Year the Energy Audit Was Conducted** | 2020 |
| **Total Energy Savings Based on Energy Audit Report (kWh)** | 100 kWh |
| **Total Investment Based on the Implemented Energy Efficiency Proj.** | PHP 100.00 |
| **DE's EEI/EUI/SEC Value and Unit** | 100 kWh/L |
| **Recommendations** | • Replacement of Conventional ACU into Inverter Types ACU |
| **Other Recommendations** | N/A |
| **Energy Audit Report PDF File** | Download and View Uploaded Audit Report File |

DEs are required to submit their energy audit and **upload a copy of their energy audit in the DEOS Portal**

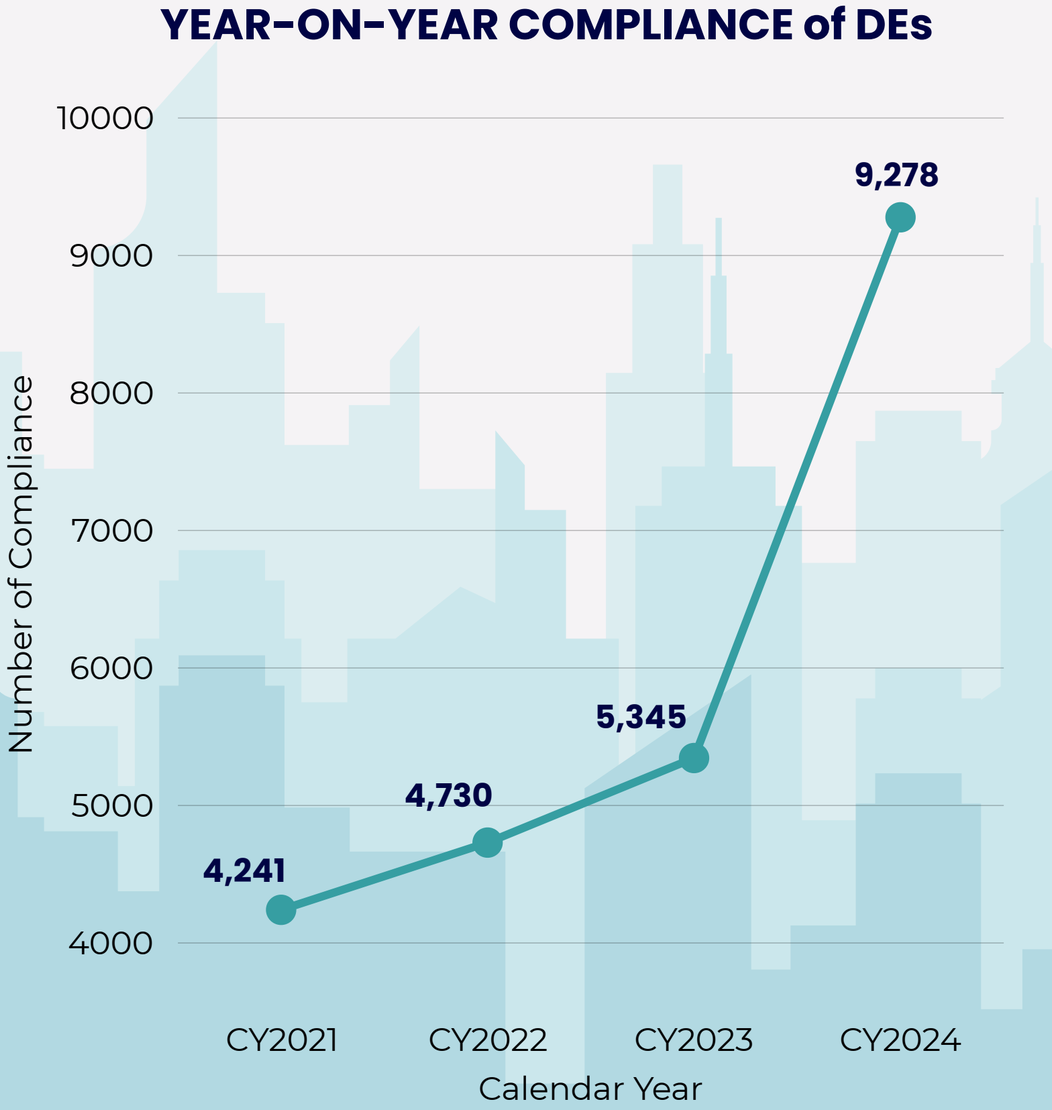
The EAR includes all information related to the submitted energy audit report

These data shall include the **information on the energy auditor**, **level of energy audit**, and **year of conduct of the energy audit**.

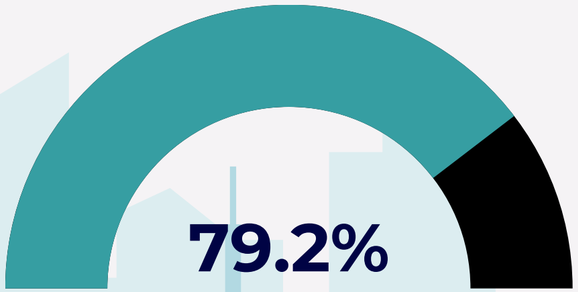
# CY2024 COMPLIANCE RATE OF DES

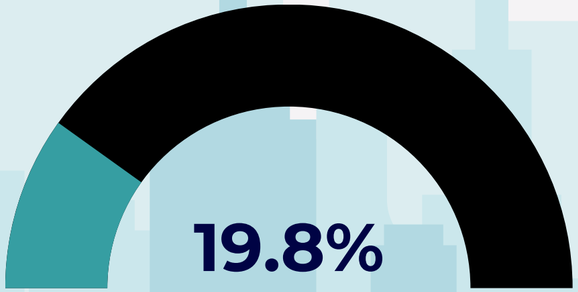
## Achieved 73.6% increase in compliance vs CY2023

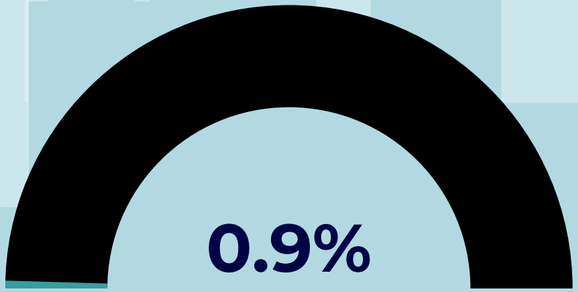
The number of registered DEs increased to **9,278 — a 73.6% increase** compared to CY2023 which as at 5,345 compliance.



# CY2024 SECTORAL AND REGIONAL COMPLIANCE




## Commercial Sector

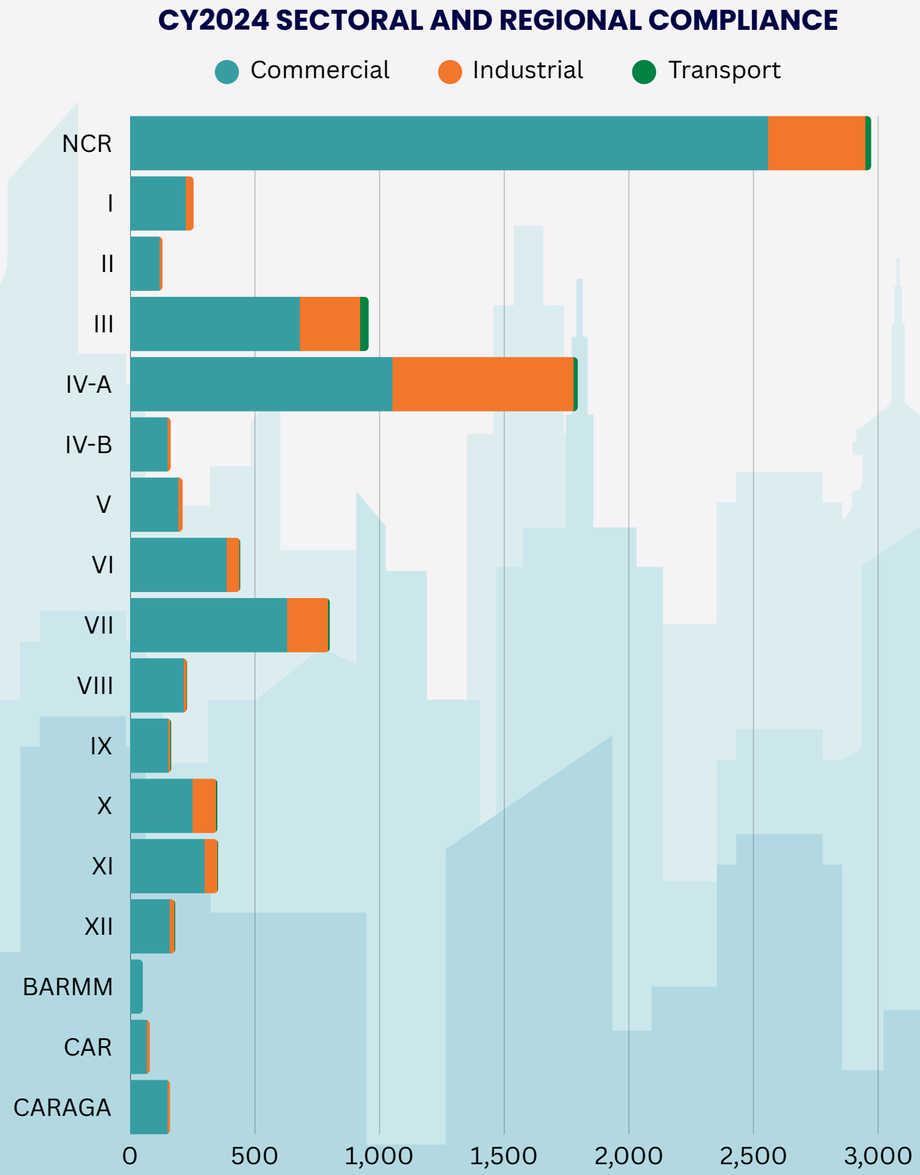
The Commercial Sector leads with **7,350 submissions**, representing approximately 79.2% of the total received reports.

## Industrial Sector

The Industrial Sector followed with **1,843 submission**, representing approximately 19.8% of the total received reports

## Transport Sector

Transport Sector had **85 submissions**, comprising 0.92% of the total submissions.



# CY2024 SECTORAL AND REGIONAL COMPLIANCE

## National Capital Region (NCR) has the highest number of compliant DEs

- Regionally, NCR had the highest number of DEs submitting reports, with **2,972 DEs across all sectors**.
- Other regions with significant submissions included **Region IV-A with 1,795 DEs**, **Region III with 956** DEs, and **Region VII with 800 DEs.**

**CY2024 REGIONAL COMPLIANCE**

| REGION | COMMERCIAL | INDUSTRIAL | TRANSPORT | TOTAL |
|---|---|---|---|---|
| NCR | 2,561 | 389 | 22 | 2,972 |
| I | 224 | 30 | 0 | 254 |
| II | 119 | 10 | 0 | 129 |
| III | 680 | 244 | 32 | 956 |
| IV-A | 1,054 | 726 | 15 | 1,795 |
| IV-B | 151 | 11 | 0 | 162 |
| V | 195 | 15 | 0 | 210 |
| VI | 387 | 52 | 2 | 441 |
| VII | 630 | 164 | 6 | 800 |
| VIII | 216 | 10 | 1 | 227 |
| IX | 153 | 10 | 1 | 164 |
| X | 251 | 95 | 3 | 349 |
| XI | 300 | 50 | 2 | 352 |
| XII | 159 | 20 | 1 | 180 |
| BARMM | 50 | 0 | 0 | 50 |
| CAR | 69 | 9 | 0 | 78 |
| CARAGA | 151 | 8 | 0 | 159 |
| **Total** | **7,350** | **1,843** | **85** | **9,278** |

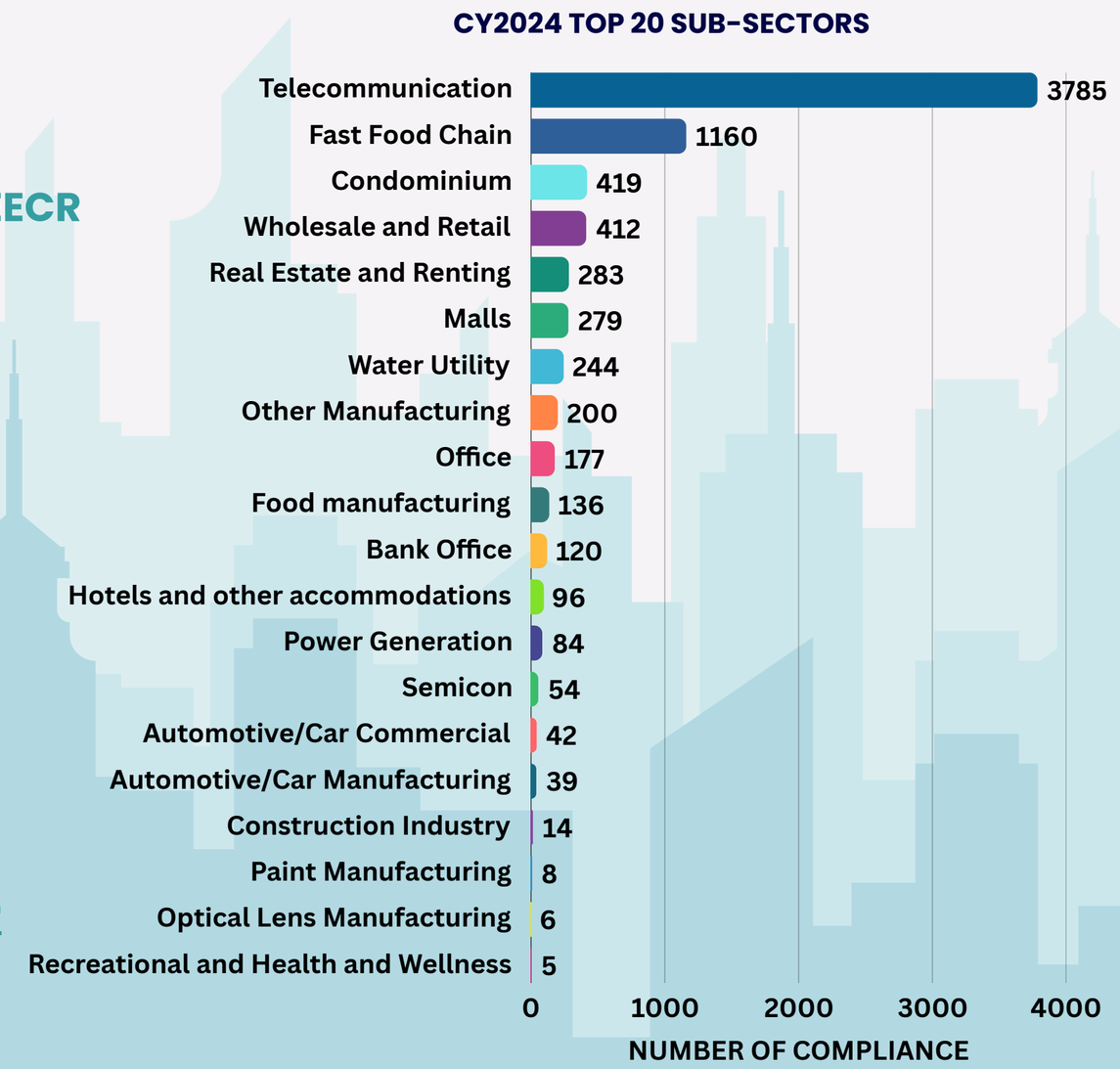
# CY2024 TOP 20 COMPLIANT SUB-SECTORS

**01.** The Top 20 Sub-Sectors submitted **89.71% of total AEECR and AEUR submissions**, with **Telecommunications** leading at 3,785 submissions.

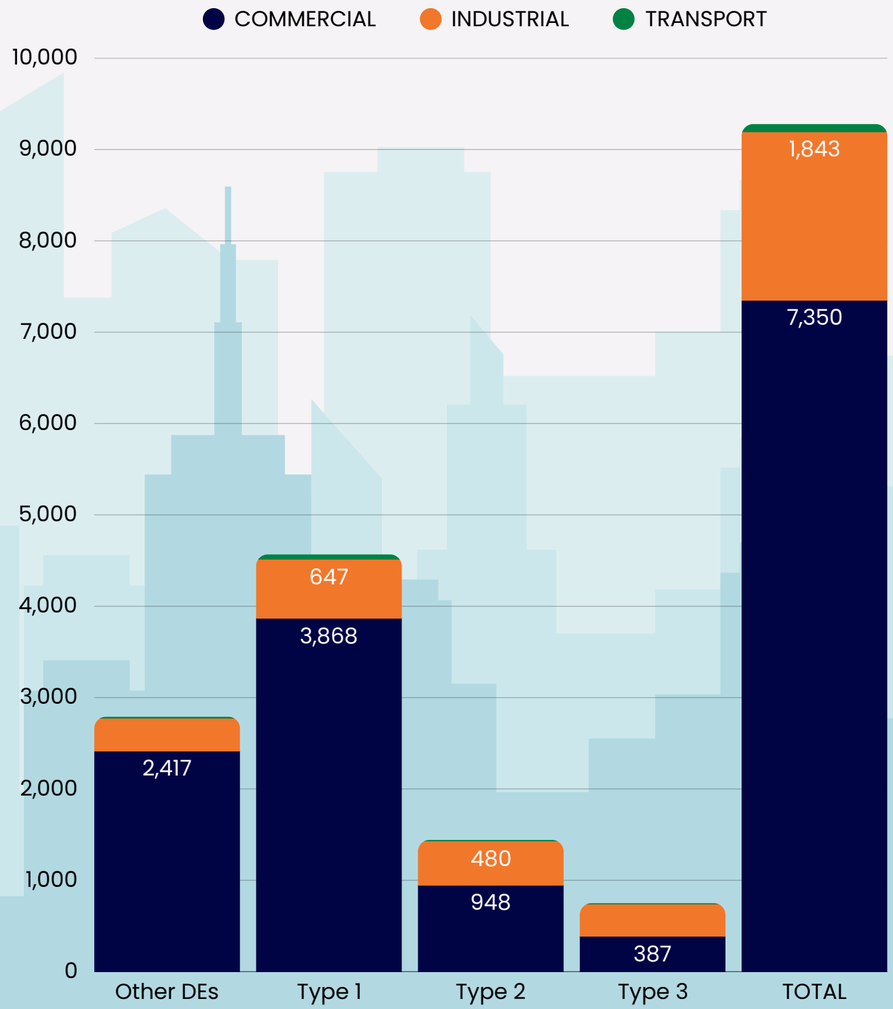
**02.** **Fast-Food Chains** followed with 1,160 submissions, while the **Condominium** sub-sector contributed 419 submissions.

**03.** The **Wholesale and Retail** sector submitted 412 entries, and **Real Estate and Renting** added 283 submissions.

**04.** Other notable contributors included **Water Utility** (244 submissions), **Multiple-occupancy Commercial Buildings** (217 submissions), and **Other Manufacturing** (200 submissions).



# CY2024 DE COMPLIANCE BY TYPOLOGY




## CONSUMPTION THRESHOLD OF DEs

| TYPOLOGY | COMMERCIAL | INDUSTRIAL | TRANSPORT |
|---|---|---|---|
| Other DEs | < 50,000.00 kWhe | | |
| Type 1 | 50,001 - 500,000 kWhe | 50,001 - 1,000,000 kWhe | 50,001 - 500,000 kWhe |
| Type 2 | 500,001 - 4,000,000 kWhe | 1,000,001 - 8,000,000 kWhe | 500,001 - 4,000,000 kWhe |
| Type 3 | More than 4,000,000 kWhe | More than 8,000,000 kWhe | More than 4,000,000 kWhe |

## CY2024 BREAKDOWN OF COMPLIANCE BY TOPOLOGY

| TYPOLOGY | COMMERCIAL | INDUSTRIAL | TRANSPORT | TOTAL |
|---|---|---|---|---|
| Other DEs | 2,417 | 361 | 12 | 2,520 |
| Type 1 | 3,868 | 647 | 52 | 4,567 |
| Type 2 | 948 | 480 | 14 | 1,442 |
| Type 3 | 387 | 355 | 7 | 749 |
| TOTAL | 7,350 | 1,843 | 85 | 9,278 |

# CY2024 EEC INVESTMENTS AND SAVINGS BY DEs

**₱8.14B total investments cost from EEC Projects**

The total investment reported in submissions reached an impressive ₱8,144,833,284.88, marking a significant increase from previous years.

**756.67 GWhe of energy savings from EEC projects and measures**

The EEC projects and measures has led to significant energy savings, amounting to 756.473 GWhe, up from 696.42 GWhe in CY2023 and 465.78 GWhe in CY2022

**538,760.69 tons of $CO_2$ avoidance from EEC projects and measures**

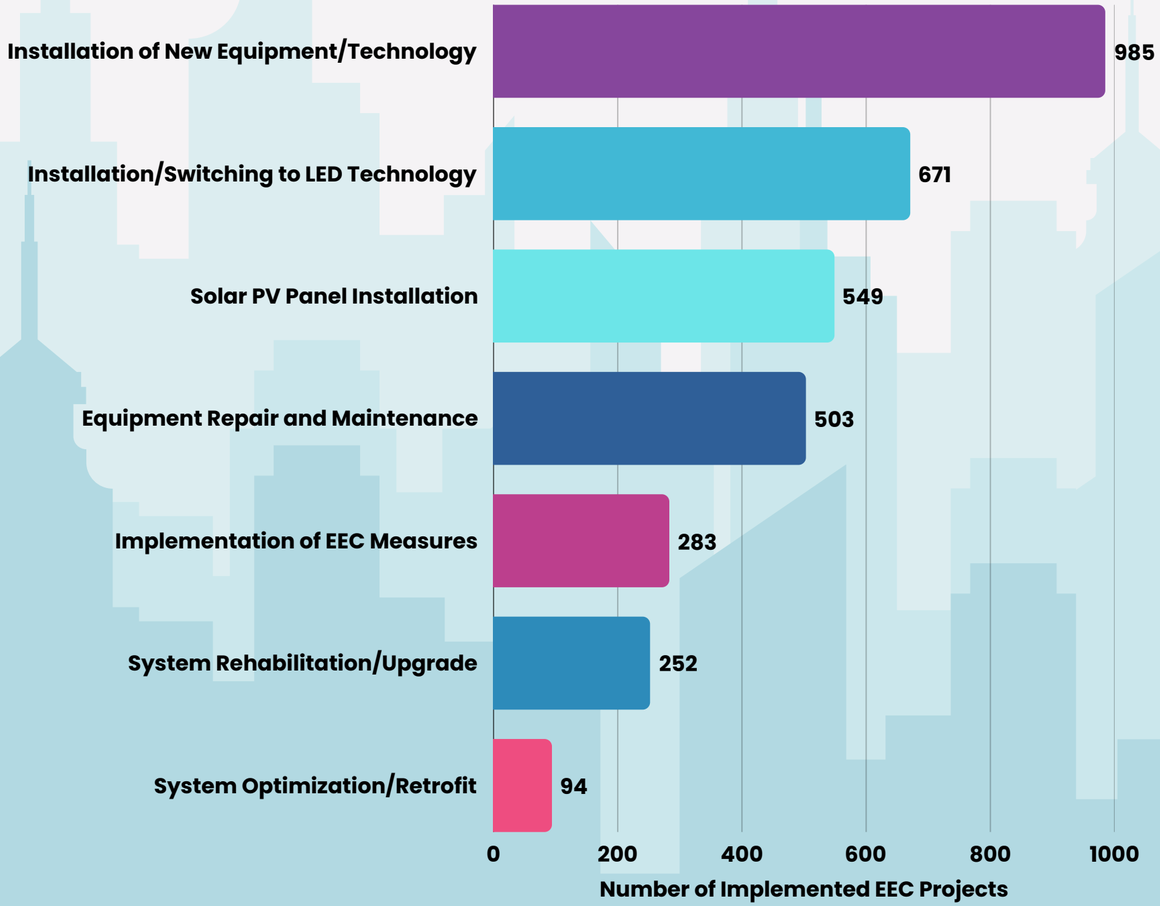
These efforts have resulted in a greenhouse gas (GHG) avoidance of 538,760.69 tons of $CO_2$, an increase from 495,989 tons in CY2023.

# CY2024 EEC INVESTMENTS AND SAVINGS BY DEs

## YEAR - ON - YEAR EEC INVESTMENTS, SAVINGS, AND GHG AVOIDANCE

| CALENDAR YEAR | CY2021 | CY2022 | CY2023 | CY2024 |
|---|---|---|---|---|
| Total Investment in the Implementation of EE Projects by DEs (in thousand pesos) | 4,590,251.00 | 6,775,540.00 | 5,011,421.00 | 8,144,833.29 |
| Total Energy Savings in GWhe | 491.758 | 465.783 | 696.419 | 756.473 |
| Avoided Greenhouse Gas (GHG) Emissions in T-CO2 | 350,230.00 | 331,730.00 | 495,989.00 | 538,760.69 |

## BREAKDOWN OF EEC PROJECTS IMPLEMENTED IN CY2024



# Energy Efficiency Practitioners

Energy efficiency practitioners play a vital role in promoting sustainability across various sectors. Their expertise enables the efficient use of energy, reduces costs, and contributes to environmental protection.

# Status of Registry of EE

Department Circular No. DC2021-01-0001 or Guidelines for the Qualifications, Assessment, Registration, and Certification of Energy Conservation Officers (ECO), Energy Managers (EM), and Energy Auditors (EA) provides for the training regulations and certification process for these energy efficiency practitioners.

**2,008**
Registered Energy Efficiency Practitioners

**1,455** CERTIFIED ENERGY MANAGERS (CEM)

**160** CERTIFIED ENERGY CONSERVATION OFFICER (CECO)

**393** CERTIFIED ENERGY AUDITORS (CEA)

# ENERGY EFFICIENCY PRACTITIONERS

## Certification Guidelines for CEM, CECO and CEA

### Certified Energy Manager (CEM)

Applicant must be a graduate of a 4 year course and has at least 3 years of experience  in handling Type 1, 2, and 3 DEs

### Certified Energy Conservation Officer (CECO)

Applicant must have at least 3 years of experience in handling Type 1, 2, and 3 DEs

### Certified Energy Auditor (CEA)

Applicant must have at least one (1) year of continuous experience in conducting Energy Audit

## Recognized Training Institutions

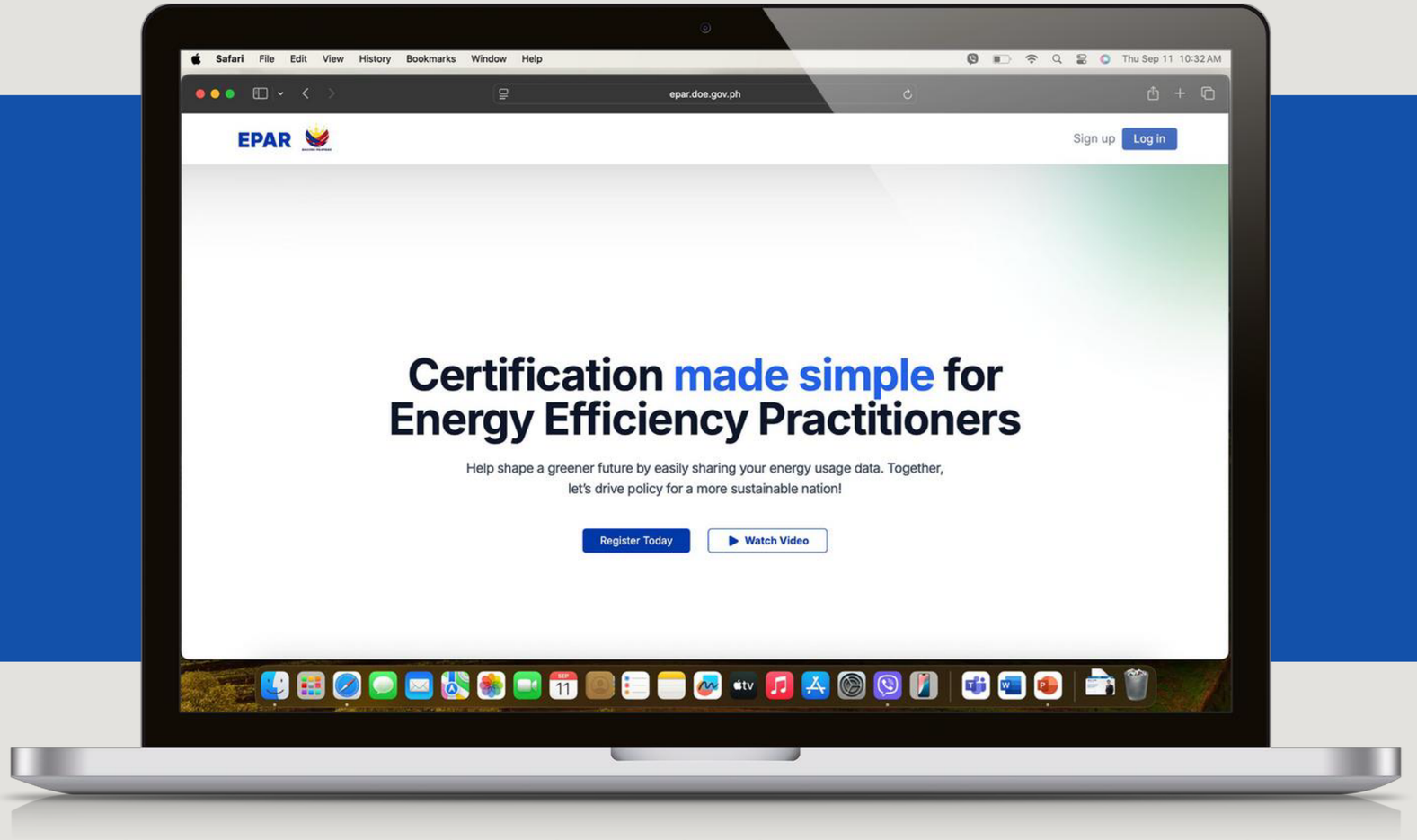
MERALCO
PIEMPI
(PTI)
PamavTech
PHILIPPINE CENTER FOR ENERGY INC. 2023
TÜVRheinland
TÜV SÜD
SmartPower
VEGA ENERGY SERVICES
ALPHA CENTAURI TECHNICAL TRAINING INSTITUTE
ENERGYWIZE SOLUTIONS

**14** Recognized training institutions for CEM

**13** Registered training institutions for CEA

# ENERGY EFFICIENCY PRACTITIONERS

# EPAR System




**applicants can submit their application through the EE Practitioner Accreditation and Registration (EPAR) System**

**https://epar.doe.gov.ph**

# EEC ACT IMPLEMENTATION

# Republic Act No. 11697

Electric Vehicle Industry Development Act

The EVIDA promotes the adoption of electric vehicles (EVs) to enhance sustainability and reduce reliance on fossil fuels. It establishes incentives for EV production and purchase, develops charging infrastructure, and supports research in EV technology.

## CREVI

The Comprehensive Roadmap for the Electric Vehicle Industry (CREVI) in the Philippines aims to boost EV adoption, enhance local manufacturing, and develop charging infrastructure, aligning stakeholders to position the country competitively in the global EV market while supporting environmental sustainability.

Mandatory share in Government and Corporate Fleets of at least 10%

Inclusion of Fiscal and non-fiscal incentives for EVs which include:

1. Number Coding exemption
2. Priority Registration

Dedicated Parking Slots for EVs in Public and Private Buildings


# EVIDA LAW AND CREVI ACT

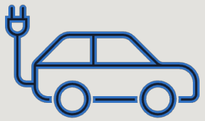
## VISION

To electrify a diverse range of vehicles and establish a domestic EV industry with strong export potential, with the aim of building a sustainable future, where new electric vehicles and the required infrastructure, are locally robust with reduced environmental impact.

## INDUSTRY GOAL

- Increase EV adoption in the domestic market
- Nationwide deployment of sufficient charging infrastructure
- Position the Philippines as producer and exporter of EVs by 2040.
- Promote a just and sustainable e-mobility transition through job creation, capacity-building, and re-skilling programs.
- Strengthen research and development in batteries, EV charging technologies, and digitalization to drive innovation and enhance industry competitiveness.

## Action Plans & Strategies:



**EV and EVCS**

Phase-in approach to develop its EV industry to balance industry growth and efforts to grow the market

Improve access to the needed processes, parts and components, expertise and technology, and adopt shared platforms and partnerships

**Manufacturing**

**Research & Development**

Prepare the readiness of EV ecosystem through R&D of EV and EVCS critical parts and components and the utilization of clean energy sources

Prepare & capacitate the EV Industry through support technical programs & trainings to ensure ready support services for EV and EVCS operations, etc.

**Human Resource Development**

### LONG TERM 2035-2040

| Business-as-Usual Scenario | Clean Energy Scenario |
|---|---|
| 852,100 EVs | 2,001,600 EVs |
| 20,400 EVCS | 39,800 EVCS |
| 12.242 MW RE Share | 36.604 MW RE Share |

### MEDIUM TERM 2029-2034

| Business-as-Usual Scenario | Clean Energy Scenario |
|---|---|
| 580,600 EVs | 1,851,500 EVs |
| 14,000 EVCS | 41,800 EVCS |
| 2.507 MW RE Share | 8.281 MW RE Share |

### SHORT TERM 2023-2028

| Business-as-Usual Scenario | Clean Energy Scenario |
|---|---|
| 311,700 EVs | 2,454,200 EVs |
| 7,300 EVCS | 66,500 EVCS |
| 0.163 MW RE Share | 1.044 MW RE Share |

# EVCS STATIONER

## IMPLEMENTATION OF POLICIES

### Recognized EV Models
*as of October 2025*

**1,080** Available EV Models Nationwide
***780*** *BEV* ***113*** *HEV* ***99*** *PHEV* ***88*** *LEV*

### Accredited EVCS Providers and Registered EVCS
*as of October 2025*

**217** Accredited EVCS Providers

**79** Operators

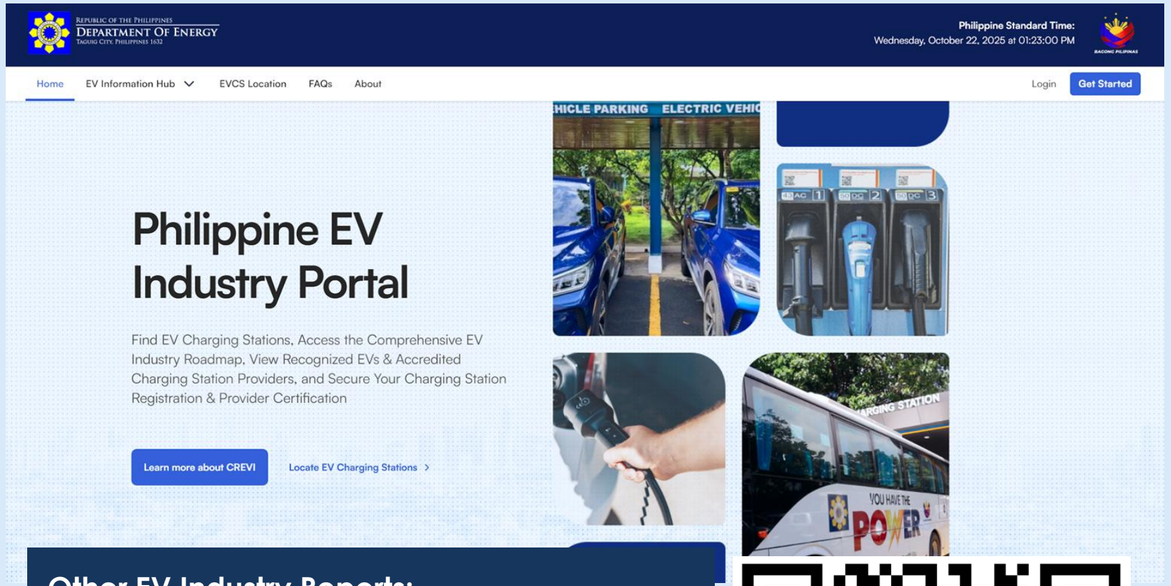
**79** Service

**59** Suppliers

**348** Registered EV Charging Station Locations

**1,159** Available Charging Points Nationwide
***572*** *AC* ***105*** *DC* ***482*** *BSS*

*represents* ***15.9%*** *of the 7,300 targets under the BAU of CREVI.*




**Other EV Industry Reports:**

**10,633** New Jobs generated

**P3.11B** Investment made in EVCS-related activities

*Scan to access the Online Application via EV Industry Portal (www.EVindustry.ph)*

# Thank You

PRESENTED BY
**DEPARTMENT OF ENERGY**
doe.eumb@gmail.com
doe.epmpd@gmail.com
(02) 8479-2900 local 214