



MERALCO as a Designated Establishment



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MERALCO

**Meralco supports the UN Sustainable Development Goals
to bring forth a brighter tomorrow for all.**



POWER

1,500 MW of RE supply in the next five years (through Meralco)
1,500 MW RE generation capacity by 2027 (through MGen)



PEOPLE

40% women representation in Meralco's workforce by 2030
0.60 lost time injury frequency rate in Meralco by 2030



PROSPERITY*

600 rural health care facilities electrified by 2030
545 off-grid public schools electrified by 2030
200 agricultural and livelihood facilities and equipment electrified by 2030
1,500 rural households with access to potable water (enabled by electricity) by 2030
4,600 community leaders and electric cooperative staff trained on disaster resilience and recovery by 2030

**In partnership with One Meralco Foundation*

PLANET

29% reduction in One Meralco's Scope 1 emissions by 2030

25% electrification of Meralco's vehicle fleet by 2030

100% of Meralco's new power circuit breakers and switchgears to be SF₆-free starting 2026



10% reduction in One Meralco's Scope 2 emissions by 2030 (primarily contingent on Meralco's system loss improvements)

6% reduction in One Meralco's emissions intensity by 2030

5M trees planted and nurtured under One for Trees by 2025

90% overall waste diversion rate in Meralco by 2027

100% of Meralco's new distribution transformers to use natural ester oil starting 2021



⁹As of this writing, these targets are still being finalized and pending approval of Meralco's Board of Directors.

01



Refresher on the R.A. 11285: Energy Efficiency and Conservation Law

An engagement by the
Construction team of the Meralco Corporate Partners

WEBINAR DETAILS

2:00 – 3:30 PM
April 8, 2022
Friday
Microsoft Teams

HOST and MODERATORS



Cory Cruz
Relationship Manager
Construction Industry
MERALCO



Gilbert Valle
Industry Lead
Construction Industry
MERALCO

FACILITATORS



Sarah Garrovillas
Relationship Manager
Construction Industry
MERALCO



Lord Patrick Rodriguez
Relationship Manager
Construction Industry
MERALCO



Bernard Fornelos
Relationship Manager
Construction Industry
MERALCO

SPEAKERS



Danilo B. Aquillo



Criselda Mendillo

Meralco Power Quality, Green Energy Option Program and EE&C Law Refresher

By the Construction team of the
Meralco Corporate Partners

WEBINAR DETAILS

1:30 – 3:00 PM
July 21, 2022
Thursday
Microsoft Teams

KEY TOPICS
1. Meralco Power Quality
2. Overview of the Green Energy Option
Program GEOP
3. Refresher of R.A. 11285 and
MSERV's services

HOSTS



Gilbert Valle
Industry Lead
Construction Industry
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Clarence Rodney Cruz
Relationship Manager
Construction Industry
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Sarah Garrovillas
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Criselda Mendillo
Relationship Manager
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Lord Patrick Rodriguez
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**2030
SDGs
GAME**

**INSPIRING AND ENGAGING
THE WORKFORCE THROUGH THE
POWERING THE GOOD LIFE WEBINARS**

#PoweringTheGoodLife
**SAVE-A-WATT:
TO ENERGY EFFICIENCY AND BEYOND**
Thursday | 25 Mar 2022 | 10:00 AM - 12:00 PM

Patrick T. Aquino
General Manager, Energy Efficiency
Management Bureau (BEM)

Charles L. Siragan
Assistant Vice President
Engineering Department
Southwest Gas

Daniel B. Aguirre
Head, Sustainability
Office Member
Alipha

Genay R. Malig
District Service Lead
Customer Service
Meralco

#PoweringTheGoodLife

SAVE-A-WATT 
 **SAVE-A-DROP**
AWARDING CEREMONY

March 29, 2022 (2:00 PM to 3:00 PM)


**MERALCO EMPLOYEES SAVING THE PLANET,
ONE KILOWATT AND DROP AT A TIME**

"Masaya kami to participate in this program dahil in our own little ways, nakakapag-contribute kami sa pag-protect ng planet. 'yung in-invest naming little time and effort kada araw ay nagbunga. Kasama dito ang daily monitoring ng facilities namin, pagre-repair ng leaks and defective faucets, pati na rin ang pagche-check kung may naiwang AC, lights, at ibang electric equipment na ka-on pero walang gumagamit.

"May challenges kaming kinaharap sa program na 'to tulad ng change in culture and behavior ng mga tao. Ang ginawa namin ay nagbigay kami ng announcements during weekly flag ceremony at nagbigay ng constant reminders every day. The key here is discipline.

"To sustain the team's performance and to continue contributing to conserving our electricity and water resources, we need to:

1. Understand the goal.
2. Be aware of our roles.
3. Learn from our lessons from yesterday to improve our results today."

—Franklin S. Mozo
Team Leader, Rizal Sector-Logistics



02

CHALLENGING EMPLOYEES TOWARDS RESOURCE CONSERVATION AND EFFICIENCY



Plan



3
IMPLEMENTATION
PLANNING

Check

DO DEEP DIVE ON DATA

IDEATE & FORMULATE
SOLUTIONS

Do

PRIORITIZE SOLUTIONS
BASED ON IMPACT, COST
& TIME, AND GO FOR
QUICK WINS



02



Designated Establishments

Refers to a private entity identified as energy intensive industries

Annual
Energy
Consumption*



Other DE

At least 100,000 kWhE but less than 500,000 kWhE



Type 1 DE

500,000 kWhE but less than 4,000,000 kWhE



Type 2 DE

4,000,000 kWhE and above

Memorandum Circular No. MC2020-05-0001

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

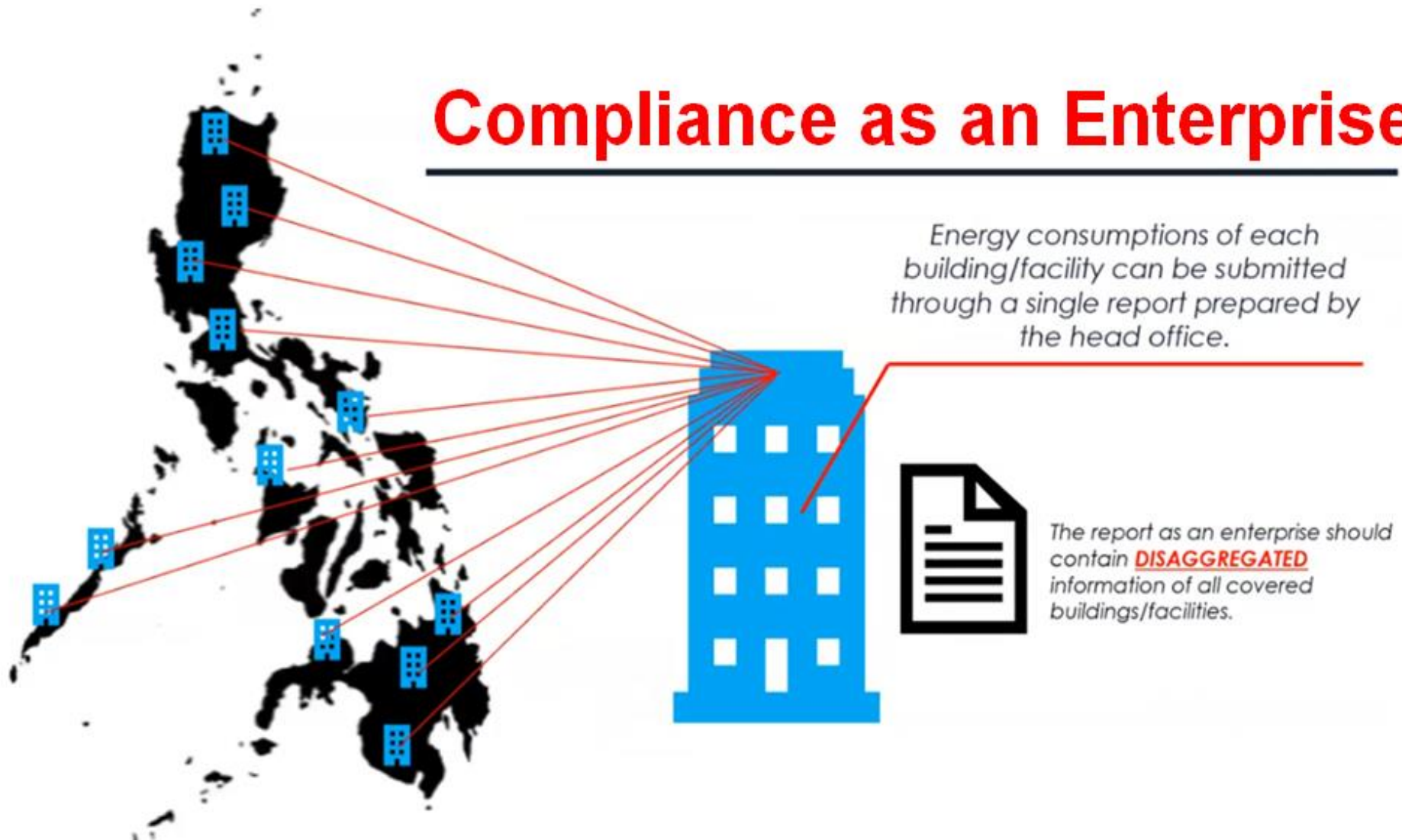
*kWhE – to read as Kilowatt-Hour Equivalent

* Combination of Fuel and Electricity



02

Compliance as an Enterprise





02

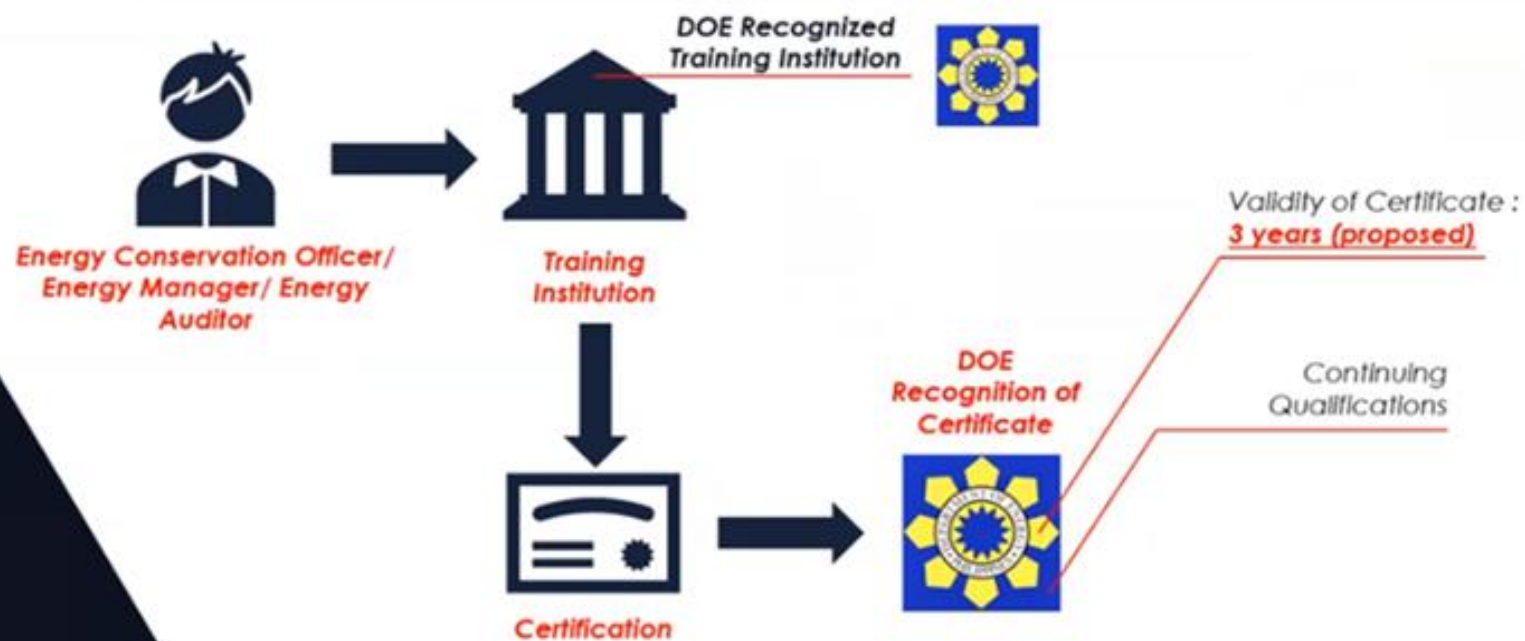


Certification of ECO, EM, and EA

Prescribes the guidelines for the assessment, registration, and certification of energy conservation officer, energy managers, and energy auditors.

Department Circular No. DC2021-01-0001

Guidelines for the Qualifications, Assessment, Registration, and Certification of Energy Conservation Officers (CECO), Energy Managers (CEM) and Energy Auditors (EA)



02



Designated Establishments

Obligations of DEs:

Energy Audit

Conduct an energy audit once every three (3) years by engaging either a certified energy auditor or an accredited ESCO and submit an energy audit report to the DOE.



When do we consider the "3 year period" for energy audit?

Date of Audit

Valid Until

2018 → 2021

2019 → 2022

2020 → 2023

2021 → 2024

Note: Energy Audit is mandatory to Type 1 and Type 2 DEs but voluntary to Other Type DEs



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Obligations of DEs:

Implement Energy Efficiency and Renewable Energy Projects

OPERATING CONTROL

Operational control
of existing facilities

PROJECTS (CAPEX/OPEX)

Rehabilitation and
replacement
program

MAINTENANCE CONTROL

Implementation of
proper maintenance
process

MONITORING & MEASUREMENT PRACTICES

Checking of
facilities standard
compliance



02

IDENTIFIED SOLUTIONS

OPERATING CONTROL

- standard chiller set point
- Lighting schedule
- Selling area operating temp

PROJECTS (CAPEX/OPEX)

- Replacement of conventional lights with LEDs
- Replacement of conventional ACUs with inverter
- Installation of Energy Management System
- Ambient temp sensors

MAINTENANCE CONTROL

- Improved process of reporting issues on large appliances (e.g., ACUs with reduced cooling power)
- Enhanced periodic maintenance of ACUs (i.e., Types A & B)

MONITORING & MEASUREMENT PRACTICES

- Energy Performance Indicators (EnPI)
- Monitoring of drivers
- Compliance report submission



02

Benefits of Energy Efficiency

- ✓ Reduced operating costs
- ✓ Improved reliability and productivity
- ✓ Reduced environmental impact
- ✓ Improved corporate image

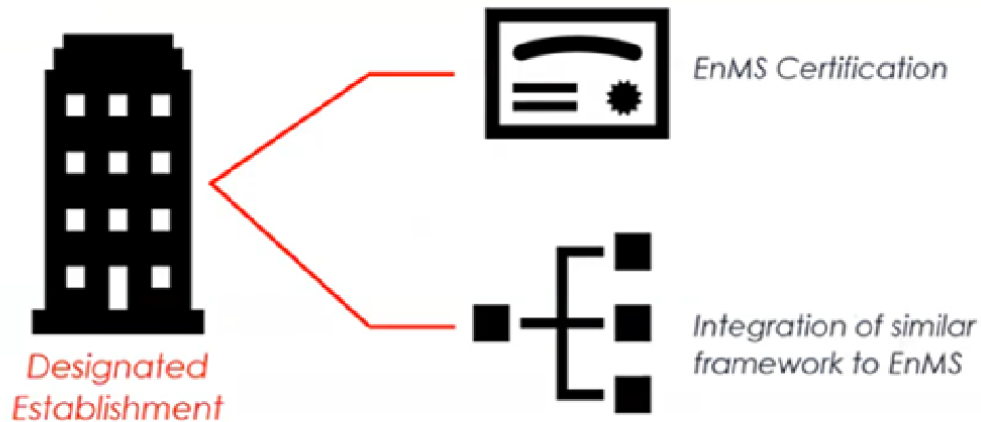


03

Obligations of DEs:

Integration of Energy Management System

DEs are **mandated** to integrate an energy management system into their business operation **but are only encouraged on certification.**



Moving Forward:

Institutionalize
resource
conservation and
efficiency/ EnMS

MERALCO as a Designated Establishment