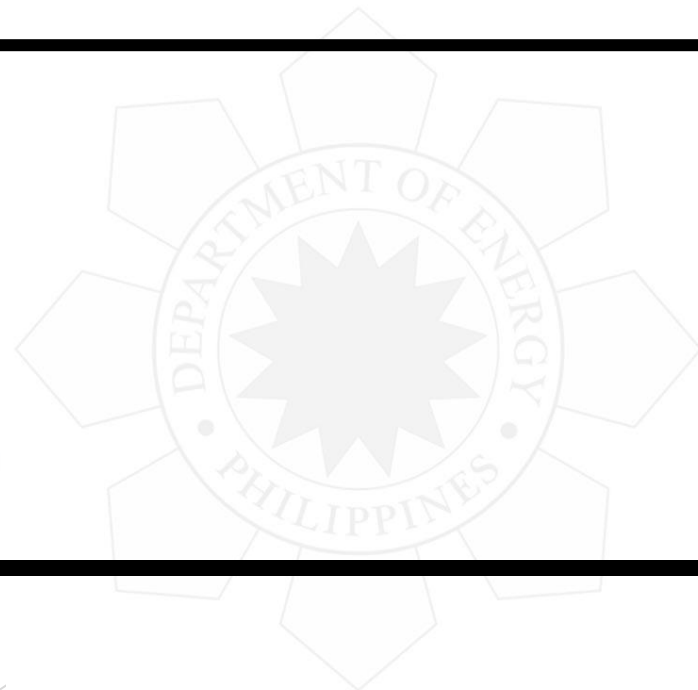


# Government Energy Management Program (GEMP)

*art p. habitan*

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Energy Utilization Management Bureau*

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Davao City*



# Background

*Government Energy Management Program's (GEMP) aim is to reduce monthly consumption of electricity and transport petroleum products by at least ten percent in all government Departments /NGAs, Government Owned and Controlled Corporations, State Colleges and Universities, Hospitals and other instrumentalities of the government except for constitutional bodies including the judiciary and legislative body.*



## **RA 7638 (Creation of the Department of Energy)**

- **Chapter II, Sect.12 (b) (2) EUMB... is tasked to**

***“Monitor sectoral energy consumption and conduct energy audits, technical training, energy management advisory services, and technology application on efficient energy utilization”.***

## **Government to exert efforts to promote judicious use of energy resources**

- ***To lead by example in implementing its own energy management program***



# Presidential Directives

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## A.O. Nos. 103, 110, 110-A, 126 and 183

*“Aimed to address the increasing/volatile world oil prices through the adherence to the government’s Energy Management & Conservation Program”*



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# Administrative Order No. 103 s.2004

**Directing the Continued Adoption of Austerity Measures in the Government.**

- I. *Sec. 1 (b)(2) “consumption of fuel, water, office supplies, electricity and utilities. For this purpose, agencies are hereby authorized to install and use energy-efficient lights and fixtures...”*



# Administrative Order No. 110 s.2004

Directing the Institutionalization of a Government Energy Management Program (GEMP) and its Amendment.

***Sect 1.1 “The Government shall aim to reduce its monthly consumption of electricity (in kilowatt-hours) and petroleum products (in liters) by at least ten percent (10%)...”***

- ***Conduct of energy survey and audits***
- ***Designate Energy Conservation Officer (ECO)***
- ***Blending of petroleum products with alternative fuels (CME)***



# Administrative Order No. 110-A s.2006

Amending Administrative Order No. 110 S. 2004 Directing the Institutionalization of a Government Energy Management Program (GEMP)

*“The **SAVINGS** to be realized through the GEMP may be used by the government entity for the **improvement of energy efficiency**, subject to the guidelines promulgated by DOE and DBM, and also for the purchase of **shuttle buses** and **service vehicle for their employees and officials** subject to the usual government auditing and accounting rules and regulations”*



# Administrative Order No. 126 s.2005

Strengthening Measures to address the extraordinary increase in World Oil Prices, Directing the Enhanced Implementation of the Government's Energy Conservation Program, and for other purposes.

**Sec.3** *“Where adequate ventilation is available, all government agencies and offices shall discontinue the use of their air-conditioning facilities, especially during cooler months from August to February”*

**Sec.4** *“A report of compliance shall be submitted monthly, not later than the 15<sup>th</sup> day following the reporting month, to the Department of Energy which shall prepare and submit a summary report to the President within five (5) days after the last reporting day”*





# Administrative Order No. 183 s.2007

**Directing the use of Energy Efficient Lighting/Lighting Systems (EELs) in Government Facilities (Palit-Ilaw Program).**

*Sec.1 Mandatory Use of EELs. All department bureaus, offices, agencies and instrumentalities of the Philippine Government, including National Government Agencies, State Universities and Colleges, GOCCs, GFIs and other government Entities are hereby **mandated to use EELs in all buildings and facilities**, as well as in all projects by the Government, such as housing and school building projects”*



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# Implementing Rules and Regulations of Government Energy Management Program (GEMP)

**Sec 1.** Aggressive promotion of energy conservation and energy efficient technology through the conduct of appropriate information, education and communication campaign, energy audits / surveys, and spot checks without prejudice to the employees/officials' productivity and performance



# The Energy Auditors

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*By Virtue of Memorandum Order No. 8 dated December 7, 2010 entitled “Amendment to 1<sup>st</sup> paragraph of Memorandum Order No. 185” from the Office of the President (OP), an Energy Audit Team was constituted and composed of one official designated/appointed by the OP and one official from the Department of Energy, as Member.*



# The Energy Audit Team

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- a) Energy Utilization Management Bureau- EECD;
- b) Energy Research and Testing Laboratory Services;
- c) Information Technology and Management Services;  
and
- d) Energy Policy and Planning Bureau.



# Activities on the Implementation of GEMP

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- Conduct of Spot Checks by Energy Audit Team
- **Require submission of relevant data/document** such as:
  - Designation of an ECO of the concerned agency
  - Monthly submission of fuel and electricity consumption report
- **Posting of Agency Rating as a result of Spot Check**



# Rating Scheme

## Spot Check Result

Grades "A" "B" "C" and "F"

GRADE	EQUIVALENT RATING	PERCENTAGE SCORE
"A"	☆☆☆☆☆	90 - 100
"B"	☆☆☆	80 - 89
"C"	☆	70 - 79
"F"	FAILED	69 and below



# Checklist and Evaluation Form

**SPOT CHECK FORM**

**ENERGY CONSERVATION MEASURES IN GOVERNMENT**

NAME OF GOVERNMENT OFFICE : DEPARTMENT OF SOCIAL WELFARE & DEVELOPMENT

LOCATION : ILOILO CITY, REGION VI

DATE : JUNE 4, 2011 TIME : 12:15 P.M.

**RESULT**

TOTAL % SCORE	EQUIVALENT RATING	GRADE
<b>95%</b>	<b>★★★★★</b>	<b>A</b>

Perfect Score	Grade or Score	Remarks
5X	<b>5.0%</b>	1. Energy Officer
5X	<b>5.0%</b>	2. Office issuance an energy Conservation

**ELECTRICITY**

Perfect Score	Grade or Score	Remarks
5.2X	<b>5.2%</b>	1. Use of CFL and dim type fluorescent lamp
5.2X	<b>5.2%</b>	2. Room Setting temperature not lower than 25 degree Centigrade
5.2X	<b>5.2%</b>	3. Operate aircon only from 9 am to 4 pm
4.2X	<b>4.2%</b>	4. Air leakage/infiltration
5.2X	<b>5.2%</b>	5. Air conditioning (at fan mode) during lunch time
2.1X	<b>2.0%</b>	6. Turn-off computer/equipment/appliance when not in use
-	-	7. Second floor elevator service bypassed
5.2X	<b>5.2%</b>	8. Lighting Power Density
5.2X	<b>5.2%</b>	9. Building Power Density (Conditioned Area)
2.1X	<b>2.1%</b>	10. Electric Utility Bill (Readily available)
5.2X	<b>5.2%</b>	11. Percent Energy Savings generated for the past year
<b>45.8X</b>	<b>44.9%</b>	

**FUEL**

Perfect Score	Grade or Score	Remarks
5X	<b>5.0%</b>	1. Inventory list and assignment of government service vehicle to a particular official
5X	<b>5.0%</b>	2. Monthly fuel consumption report record
5X	<b>5.0%</b>	3. Preventive maintenance schedule of service vehicle including repair
5X	<b>5.0%</b>	4. Records of daily entry and dispatch of service vehicle from motor pool
5X	<b>5.0%</b>	5. Records of Trip Tickets for each service vehicle
5X	<b>5.0%</b>	6. Idling of engine while waiting and/or parking
45X	<b>10.0%</b>	7. Fuel Conservation Program
<b>45X</b>	<b>40.0%</b>	

Attended by: DIE. MARIC C. MARASIGAN



# Activities on the Implementation of GEMP

## Conduct Spot Check by Energy Audit Team



**Use of electric fans  
Turn off computers when  
not in use**



**Replace 40w lamp tubes to  
36 W or with lower wattage  
or CFL**





# Conduct Spot Check by Energy Audit Team



# Activities on the Implementation of GEMP



Posting of Agency Rating



# Activities on the Implementation of GEMP

- Seminar Workshop on Energy Conservation for Government Employees.
- Conduct of IEC to different government offices





*Let's Make Energy Efficiency and Conservation (EE&C) a Way of Life!*



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