

## Department of Energy

The DOE logo is represented by a shining sun with eight rays hosting a star with 13 spikes. The rays symbolize the eight major sources of energy: oil, gas, geothermal, coal, hydro, nuclear, biomass, and municipal waste. The 13 spikes stand for the 13 regions of the country.



The colors in the logo are representation of what DOE harnesses to fulfill its mandate: yellow, for energy; inner blue, for the ocean; outer blue, for the wind; and white, for environmental sustainability.

### Legal Basis

**Republic Act No. 7638** (December 9, 1992) created the Department of Energy and rationalized the organization and functions of government agencies related to energy.

**Republic Act No. 9136** (June 8, 2001), Electric Power Industry Reform Act (EPIRA), expanded the functions of DOE to include the supervision of the restructuring of the electricity industry.

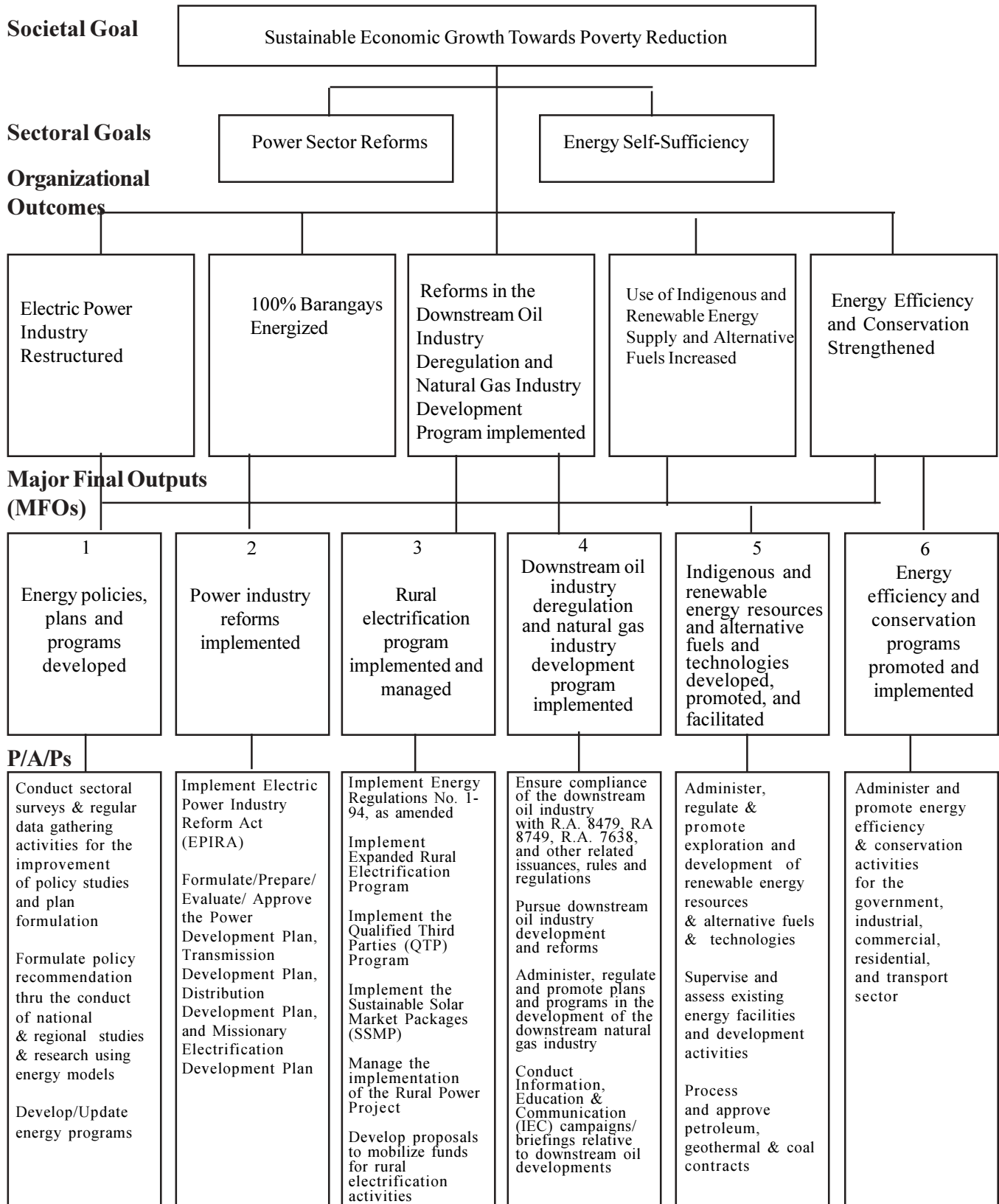
**Administrative Order 38** (August 23, 2002) provided for the institutional strengthening of the DOE redefining the functions and services of its bureaus, service units, and offices.

### Mandate

The Department of Energy (DOE) ensures a continuous, adequate, and economic supply of energy to keep pace with the country's growth and economic development with the end view of ultimately achieving self-reliance in the country's energy requirements. This will be done through the integrated and intensive exploration, production, management, and development of the country's indigenous energy resources; and through the judicious conservation, renewal, and efficient utilization of energy, taking into consideration the active participation of the private sector in the various areas of energy resource development. The DOE rationalizes, integrates, and coordinates the various program of the Government towards self-sufficiency and enhanced productivity in power and energy without sacrificing ecological concerns.

Energy independence can only be achieved through a predictable energy policy that serves the needs of our people and industry. And I can assure you that we will do everything possible to ensure that energy is affordable and sustainable and to promote investment and further development of this important sector of our economy. – PGMA, March 14, 2005

# LOGICAL FRAMEWORK (DOE)



## **SECTOR GOALS**

The Philippine Energy Plan (PEP) embodies the sector's policies, plans and programs for a ten-year plan horizon towards the attainment of the desired outcomes. It serves as the sector's investment portfolio for the private sector as it showcases "windows of opportunities" for potential investors in the energy sector. The continued implementation of the restructuring of the power sector will spur the development of a market-based environment conducive to local and international investors.

### **Power sector reforms**

Electricity is one of the key inputs for socio-economic development. Efficient provision and improvement of access to electricity contribute to economic growth and poverty reduction. Power sector reforms generally involve commercialization, setting up of independent regulators, restructuring and privatization of the electricity sector.

Power sector reforms are targeted to result in fair and reasonable energy prices in a competitive environment. The strategies to attain this goal include:

- Implement Wholesale Electricity Spot Market (WESM) in Luzon by end of 2006;
- Privatize 70 percent of the installed capacity of the National Power Corporation (NPC) generating assets in Luzon and Visayas by 2007;
- Privatize the National Transmission Corporation (TransCo);
- Implement continuously transmission system upgrade and expansion program;
- Attain 100 percent barangay electrification by 2008;
- Open 14 "first wave areas" of NPC-Small Power Utilities Group (SPUG) to power sector participants; and
- Achieve single-digit national average systems loss of distribution utilities by 2010.

These efforts are expected to create an investment climate attractive to private domestic and foreign investors.

### **Energy self-sufficiency**

The efficient implementation of energy efficiency and conservation programs will ensure consumer welfare promotion and protection. This will result in energy and foreign exchange savings which can be used to support capital expenditures needed to propel the economy.

To reduce energy importation and eventually achieve a 60 percent self-sufficiency level in 2010, the following activities will be pursued:

- Increase the country's identified reserves of indigenous oil and gas by 20 percent in ten years;
- Reduce coal imports by 20 percent in ten years;
- Increase renewable energy-based capacity by 100 percent;
- Increase the use of alternative fuels: 100 percent of Metro Manila buses running on compressed natural gas (CNG) by 2010; 5 percent coco-methyl ester (CME) blend with diesel fuels for

- vehicles in 2010; 5 percent ethanol blend for vehicles by 2007 to reach 10 percent in 2010;
- Convert retired and operating oil-based power plants to natural gas by 2010; and
- Attain 19.8 million Barrels of Fuel Oil Equivalent (MMBFOE) average annual energy savings in 10 years through energy efficiency and conservation measures (17.7 MMBFOE) and use of alternative fuels for transport (2.1 MMBFOE).

## **ORGANIZATION OUTCOMES**

In keeping with its mandate of keeping pace with the country's growth and economic development through the efficient utilization of energy, among others, the DOE seeks to achieve its five-pronged outcomes of restructuring the electric power industry, energizing 100% of barangays, implementing energy reforms, increasing the use of alternative fuels, and strengthening energy efficiency and conservation.

### **Electric Power Industry Restructured**

The ultimate objective of the power sector reforms is to provide fair and reasonable price of electricity to end-users without sacrificing adequacy, reliability, and quality through the establishment of a market-based power industry in partnership with the private sector.

### **100% Barangays Energized**

The rural electrification program is the DOE's contribution to the poverty alleviation program of the government. The promotion of economic development is ensured by providing electricity through line extension and decentralized energy systems.

### **Reforms in the Downstream Oil Industry Deregulation and Natural Gas Industry Development Program Implemented**

A deregulated oil industry will provide wider access to energy products and services with the right quantity and good quality under a regime of competitive prices. The outcome also involves provision of policy and program support to promote the development of natural gas for power and non-power applications.

### **Use of Indigenous and Renewable Energy Supply and Alternative Fuels Increased**

Increased indigenous energy supply will lessen dependence on imported fuels, thereby realizing foreign exchange savings for the country. It will likewise promote supply security and reliability, and will support the country's environmental goals.

### **Energy Efficiency and Conservation Strengthened**

Nationwide implementation of energy efficiency and conservation programs will result in higher energy and foreign exchange savings. Energy savings will delay the need for capital investments for new power projects while foreign exchange savings will be used to fund vital social services.

## MAJOR FINAL OUTPUTS

As the agency responsible for integrating and coordinating the various power and energy programs of the government, the DOE is expected to produce the following outputs:

### 1. Energy Policies, Plans and Programs Developed

Energy policies, plans and programs which the DOE is tasked to develop and monitor include: exploration, development, processing and distribution of energy resources; promotion of the utilization of indigenous and alternative energy resources; power reforms and electrification of the countryside; and judicious utilization of energy.

A ten-year national energy plan, complemented by regional plans, provides long-term direction and thrusts to the energy sector to ensure sustainable, stable, secure, sufficient, accessible, and reasonably priced energy.

#### Associated Activities or P/A/Ps:

*Energy Policy and Planning* [updating of the PEP and the Regional Energy Profiles (REP) of the 16 administrative regions; sectoral surveys and regular data gathering activities to support policy studies and plan formulation; national and regional studies and research using energy models, including study on the cost of meeting 60% self-sufficiency by 2010; development of national energy models for demand and supply forecasting; information dissemination activities on energy policies, plans and programs; bilateral and multilateral cooperation activities pursuant to international commitments/agreements; position papers and reports preparation on energy issues and developments]

*Energy Resource Development* (research and studies, and policies and programs on petroleum, geothermal and coal, including the processing and approval of petroleum, geothermal and coal contracts and permits, and assessing the resource potential of prospective petroleum, geothermal and coal areas; exploration and production of petroleum, geothermal and coal resources in the country; and enhancement of skills and capabilities relative to energy resource development)

### 2. Power Industry Reforms Implemented

Power sector reforms seek to restructure the electricity industry and privatize the generation and transmission functions in accordance with the EPIRA. These reforms will provide end-users with reliable and efficient supply of electricity and ancillary services based on its true cost.

#### Associated Activities or P/A/Ps :

*Electric Power Industry Management and Control* [monitoring the implementation of EPIRA; monitoring and assessing WESM; formulating the Power Development Plan (PDP), the

Distribution Development Plan (DDP), and the Missionary Electrification Development Plan (MEDP); evaluating and approving the Transmission Development Plan (TDP); and enhancing skills and capabilities relative to electric power industry management and control]

### **3. Rural Electrification Program Implemented and Managed**

The rural electrification program is part of the ten-point legacy agenda. It provides policies, plans and programs towards the attainment of 100% barangay electrification by 2008.

#### Associated Activities or P/A/Ps

*Rural Electrification Administration and Management* [implementing Energy Regulations No. 1-94 (E.R. 1-94), the Expanded Rural Electrification Program, QTPs Program, and the Sustainable Solar Market Packages (SSMP); managing the implementation of the Rural Power Project; and developing proposals to mobilize funds for rural electrification activities]

### **4. Downstream Oil Industry Deregulation and Natural Gas Industry Development Program Implemented**

This MFO seeks to create an investment climate conducive to investors and to improve access to the right quantity and quality energy products and services through the expansion of downstream energy facilities. It also aims to promote power and non-power use of natural gas.

#### Associated Activities or P/A/Ps

*Downstream Oil and Natural Gas Industry Management and Control* (compliance of the downstream oil industry with R.A. No. 8479, No. 8749, No. 7638, and other related issuances, rules and regulations; pursuit of downstream oil industry development and reforms; plans and programs formulation in the development of the downstream natural gas industry; enhancement of skills and capabilities relative to downstream oil and natural gas industry management and control; and IECs/briefings relative to downstream oil development)

### **5. Indigenous and Renewable Energy Resources and Alternative Fuels and Technologies Developed, Promoted, and Facilitated**

This MFO seeks to increase indigenous energy and alternative fuels supply through energy contracting rounds, investment road shows, and other IEC campaigns. It also seeks to increase utilization of alternative fuels specifically in the transport sector through market development and the creation of investor-friendly environment by providing comprehensive incentive packages to all stakeholders, among others.

#### Associated Activities or P/A/Ps

*Direction and Control of Renewable Energy (RE) Resources, Alternative Fuels and Technologies Development and Utilization* (research and studies and policies and programs

on RE resources and technologies, alternative fuels and technologies, energy efficiency and conservation; exploration and development of RE resources and alternative fuels and technologies; alternative fuels and technologies regulation and promotion; supervision and assessment of existing energy facilities and development activities; implementing area-based energy technology and systems through the Affiliated Non-Conventional Energy Centers and Local Government Units)

## 6. Energy Efficiency and Conservation Programs Promoted and Implemented

To attain energy independence, the government is considering savings on energy through strong efficiency and conservation programs on fuel efficiency and conservation; and power conservation and demand-side management.

### Associated Activities or P/A/Ps

*Energy Efficiency and Conservation* (research and studies and policies and programs on energy efficiency and conservation technologies applicable to government, industrial, commercial, residential, and transport sector, electric power industry participants, among others; energy efficiency and conservation activities for the government, industrial, commercial, residential and transport sector; including promotional campaigns on Fuel Economy Runs and energy standards and labeling program for household appliances and lighting products; enhancement of skills and capabilities relative to energy utilization and conservation)

*Energy Research and Testing Laboratory Services* (geo-chemical/geological sampling and/or analysis of coal, geothermal and petroleum samples to help assess energy resource prospectivity; alternative fuels analysis to determine their compliance with approved PNS; analytical and technical services to support petroleum product quality monitoring, i.e., field sampling and/or laboratory services; energy performance testing and labeling for: appliances and equipment, and lighting and related fixtures and accessories, and other household electrical products; formulation/implementation/review of standards on fuel quality; and labeling program for household appliances and lighting products; implementation of the Philippine Efficient Lighting Market Transformation Project; and enhancement of skills and capabilities relative to energy research and testing)

### Performance Measures and Targets

Particulars	2007 Targets	Remarks
MFO I Energy Policies, Plans and Programs Developed		
No. of energy plans formulated/updated and adopted		
Ten-year Philippine Energy Plan	1	
Regional Energy Profiles	16	
Power Development Plan	1	
Distribution Development Plan	1	
Missionary Electrification Development Plan	1	



Particulars	2007 Targets	Remarks
Oil Contingency Plan		Update as necessary
No. of policy recommendations adopted Department Orders/Circulars/other Issuances, and Executive/Administrative Orders/Circulars covering energy policies approved by the President	12	
Bills/position papers on energy policies endorsed to OP/ Congress	11	
Position papers/agreements relative to international commitments (APEC, ASEAN, ACD, WTO and other Free Trade Agreements, among others) facilitated and endorsed to OP/Congress/Executive Offices	48	
Resolutions endorsed to concerned agencies Coal to Market Linkage Coal importation Coal plant technology and consumption study	100 2	
Development of web-based database system for the distribution utilities	1	
No. of issuances on natural gas in preparation for the passage of the Natural Gas (NatGas) Law Transmission Code Distribution Code Supply Code NatGas Law Implementing Rules and Regulations	1 1 1 1	
Impact studies on Gender and Development, i.e., employment profiling in energy activities, assessment on effects of rural electrification on women	Conduct of surveys	
No. of energy programs formulated, adopted, and promoted Power/Electrification Program	-	
Upstream Energy Program (Petroleum/Coal/ Geothermal) Upstream samples processed/ tested/correlated	Conduct of PECCR 20	
Alternative Fuels Programs Sites for CNG refueling station and bio-fuel manufacturing/production plants inspected/ monitored	4 (bio-diesel); 2 (ethanol)	
Alternative fuel vehicles tested Alternative fuel samples tested	8 40	
Natural Gas Development Program (NGDP)	Finalized NGDP requirement of NatGas Law	

Particulars	2007 Targets	Remarks
<p>Downstream Oil Industry Program</p> <p>LPG Cylinder Improvement Program; Gasoline Station Lending and Financial Assistance Program (GSLFAP); IEC campaign program on LF and LPG safety rules and regulations</p> <p>Environmental Management Program</p> <p>No. of power plants complying with environmental standards 24</p> <p>Reports on oil spill incidence and other environmental issues/concerns As the need arises</p> <p>Conduct of annual oil spill seminar-workshop 1</p> <p>Environmental and National Commission on Indigenous People (NCIP) permits and certificates obtained prior to project implementation 4</p> <p>Fuel samples tested for Clean Air Act compliance 2,250</p> <p>Energy Information Management Program</p> <p>Enhancement/upgrading of DOE Portal, DOE Intranet</p> <p>No. of web pages updated 24</p> <p>No. of data sets validated/uploaded 20</p> <p>Enhancement of Energy Information Center Intranet</p> <p>No. of data sets validated/uploaded 12</p> <p>Digitization of existing analog data at the EDCP</p> <p>No. of analog data digitized 2,000</p> <p>Establishment of the Energy Net</p> <p>No. of players connected 4</p>		
<p>MFO2</p> <p>Power Industry Reforms Implemented</p> <p>No of IEC/consultations conducted and participants covered Power sector reforms E.R. 1-94 16</p> <p>Semi-annual reports submitted to the JCPC on the status of the overall implementation of the EPIRA 2</p> <p>No. of pertinent WESM documents prepared to address emerging market performance issues</p>		<p>200 participants each</p> <p>10th &amp; 11th EPIRA Implementation Status Report</p>

Particulars	2007 Targets	Remarks
<p>Relevant Department Circulars issued as against proposed  Market assessment reports evaluated  Maintenance of database on WESM operation (365 days, 24/7)</p> <p>No. of non-electrification projects evaluated, processed, and approved under E.R. 1-94</p>	<p>12  Daily monitoring</p>	<p>As the need arises</p>
<p>MFO 3  Rural Electrification Program Implemented and Managed</p> <p>No. of barangays/households electrified by DOE  E.R. 1-94  Rural Electrification Program</p> <p>No. of coordination meetings conducted to resolve issues/disputes/conflicts in the implementation of electrification projects</p>	<p>73</p>	<p>As the need arises</p>
<p>MFO 4  Downstream Oil Industry Deregulation and Natural Gas Industry Development Program Implemented</p> <p>No. of new players per activity monitored  Oil  Gas</p> <p>No. of monitoring reports issued/posted within target time for public consumption  Oil price monitoring reports  Price monitor postings at DOE website  Oil  Petroleum</p> <p>Oil situation (supply and demand)  Natural gas (production, consumption, generation, utilization)</p> <p>No. of facilities inspected which comply with standards  Gasoline stations  LPG establishments  Depots/refineries  Bio-fuels manufacturing plants  Ethanol blending/storage facilities  Natural gas facilities (pipeline, onshore and offshore gas plants, power plants)  Government agencies</p>	<p>80</p> <p>264</p> <p>144</p> <p>12</p> <p>12</p> <p>800</p> <p>1,200</p> <p>120</p> <p>16</p> <p>28</p> <p>80% of 200</p>	<p>No target posting adjustment</p>

Particulars	2007 Targets	Remarks
<p>No. of standards developed/ reviewed/adopted and issued</p> <ul style="list-style-type: none"> <li>Bio-diesel</li> <li>Diesel</li> <li>Gasoline</li> <li>Brake fluid</li> <li>LPG depot</li> <li>Dispensing and storage systems for biofuels at retail outlets</li> <li>Portable Petroleum Product Containers</li> <li>Review of PNS/DOE FS 1 to include dispensing of bio-fuels</li> <li>LPG transport vehicles</li> </ul> <p>No. of certifications/accreditations/registrations/endorsements/acknowledgments in the downstream oil industry</p> <ul style="list-style-type: none"> <li>No. of fuel additives registered</li> <li>Accreditation of industry participants to the Fuel- Bio-Ethanol Program</li> <li>Certificate of Compliance (COC) to the Retail Rules</li> <li>Endorsement/Certification of Oil Industry Participants</li> <li>Acknowledgement of prior notices</li> <li>No. of new users of natural gas monitored</li> <li>No. of IECs/briefings conducted and participants covered</li> </ul>	<p>4</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>11</p> <p>8</p> <p>No target</p> <p>12</p> <p>1,000</p> <p>2</p> <p>4</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>Depends on entry of new players/ change of dealership, etc.</p> <p>Previous COC has 5-year term (2009)</p> <p>Dependent on application filed and received by the Bureau</p> <p></p> <p></p> <p>100 participants each</p>
<p>MFO 5</p> <p>Indigenous and Renewable Energy Resources and Alternative Fuels and Technologies Developed, Promoted, and Facilitated</p> <p>No. of service/operating contracts issued, administered, and monitored as complying with contract terms</p> <ul style="list-style-type: none"> <li>Oil and gas</li> <li>Coal</li> <li>Geothermal</li> <li>Mini-hydropower</li> <li>Wind</li> </ul>	<p>28</p> <p>144</p> <p>36</p> <p>4</p> <p>-</p>	<p>No additional contracts for 2007 due to conduct of contracting round</p> <p>Issuance of wind contract under moratorium</p>

Particulars	2007 Targets	Remarks
<p>No. of projects facilitated, endorsed, and monitored Clean Coal Technologies</p> <p>Coal Briquetting Project Coal Liquefaction Project Environment-Friendly Production of Carbon-Enriched Lignite</p> <p>Small-scale coal mining Energy-related projects endorsed Clean Development Mechanism Program National Vehicle Research and Testing Center Other locally-funded and foreign-assisted projects</p> <p>No. of affiliated Non-Conventional Energy Centers (ANECs) administered and monitored</p> <p>No. of IEC events (seminars, meetings, exhibits) and corresponding no. of participating stakeholders reached to promote the utilization/commercial application of alternative fuels</p> <p>Compressed Natural Gas</p> <p>Bio-diesel</p> <p>Ethanol</p> <p>Autogas</p>	<p>39</p> <p>2</p> <p>18 (consultations/ meetings, etc.)</p> <p>60 (participants)</p> <p>52 (consultations/ meetings, etc.)</p> <p>108 (participants)</p>	
<p>MFO 6 Energy Efficiency and Conservation Programs Promoted and Implemented</p> <p>No. of energy efficiency and conservation programs promoted and implemented</p> <p>No. of energy standards/ labeling programs implemented/ reviewed (household appliances and lighting products)</p> <p>IEC: No. of seminars and tri-media campaigns and clients reached</p> <p>Voluntary Agreements Program: No. of promotional activities conducted and clients reached</p> <p>Government Enercon Program: No. of government agencies monitored as complying with program</p>	<p>5</p> <p>24 (seminars) 15 (tri-media ads)</p> <p>12</p> <p>300</p>	

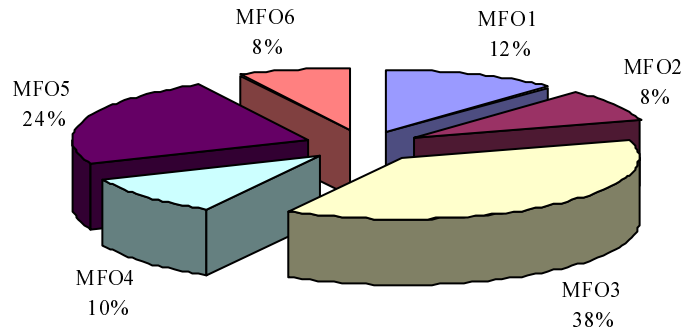
Particulars	2007 Targets	Remarks
No. of companies/power plants/ distribution utilities audited/ monitored as complying with Enercon standards and given recognition		
No. of companies audited	40	
No. of power plants monitored on heat rate improvement	20	
No. of distribution utilities monitored on systems loss reduction	120	
No. of distribution utilities monitored on demand-side management (DSM)	-	DSM program suspended by ERC
No. of companies monitored	40	

### FY 2007 OPIF-Based Budget

#### FY 2007 Budget by Major Final Output (MFO) (in million pesos)

Particulars	PS	MOOE	CO	Total	%Share to Total
MFO 1 Energy policies, plans and programs developed	35.438	39.343	0.016	74.797	12%
MFO 2 Power industry reforms implemented	17.619	32.517	0.017	50.153	8%
MFO 3 Rural electrification program implemented and managed	20.964	213.486	0.016	234.466	38%
MFO 4 Downstream oil industry deregulation and natural gas industry development program implemented	31.837	31.695	1.185	64.717	10%
MFO 5 Indigenous and renewable energy resources and alternative fuels and technologies developed, promoted, and facilitated.	34.229	92.791	20.025	147.045	24%
MFO 6 Energy efficiency and conservation programs promoted and implemented	20.650	27.564	0.017	48.231	8%
<b>TOTAL</b>	<b>160.737</b>	<b>437.396</b>	<b>21.276</b>	<b>619.409</b>	<b>100%</b>
<b>% Share to Total</b>	<b>26%</b>	<b>71%</b>	<b>3%</b>	<b>100%</b>	

**FY 2007 Budget by MFO**  
**Total Budget = Php619,409,000**



**Breakdown by MFO/Fund Source (in million pesos)**

Particulars	GAA	RLIP	SAGF	Total
MFO 1 - Energy policies, plans and programs developed	71.883	2.914	-	74.797
MFO 2 - Power industry reforms implemented	48.712	1.441	-	50.153
MFO 3 - Rural electrification program implemented and managed	55.603	1.717	177.146	234.466
MFO 4 - Downstream oil industry deregulation and natural gas industry development program implemented	54.929	2.595	7.193	64.717
MFO 5 - Indigenous and renewable energy resources and alternative fuels and technologies developed, promoted and facilitated.	84.720	2.772	59.553	147.045
MFO 6 - Energy efficiency and conservation programs promoted and implemented	34.501	1.685	12.045	48.231
<b>TOTAL</b>	<b>350.348</b>	<b>13.124</b>	<b>255.937</b>	<b>619.409</b>
<b>% Share to total</b>	<b>57%</b>	<b>2%</b>	<b>41%</b>	<b>100%</b>

## Budget Highlights

### Priority Programs and Projects (in million pesos)

MFO 1 – Energy Policies, Plans and Programs Developed	<u>74.797</u>
Formulation of short, medium and long-term national and regional energy policies, plans and programs	
MFO 2 – Power Industry Reforms Implemented	<u>26.698</u>
Implementation of Electric Power Industry Reform Act, including the monitoring and assessment of the Wholesale Electricity Spot Market (WESM)	
MFO 3 – Rural Electrification Program Implemented and Managed	<u>177.146</u>
Barangay Electrification Program Using New and Renewable Energy	76.672
Remote Area Electrification Subsidy Program	100.474
MFO 4 – Downstream Oil Industry Deregulation and Natural Gas Industry Development Program Implemented	<u>28.546</u>
Ensuring compliance of the downstream industry with the deregulation laws and administration/regulation/promotion of plans and programs in the development of downstream natural gas industry	21.353
Oil Industry Deregulation Management Program	7.193
MFO 5 – Indigenous and Renewable Energy Resources and Alternative Fuels and Technologies Developed, Promoted and Facilitated	<u>95.958</u>
Administration, regulation and promotion of exploration and development of renewable energy and alternative fuels and technologies	36.405
Natural Gas Vehicle Program for Public Transport	6.728
CME (Coco- Biodiesel) Program	9.436
Autogas Program	5.312
Hydrogen Program	1.712
Ethanol Program	7.834
Mine Safety, Rescue and Emergency Preparedness in Coal Mining	8.190
Coalbed Methane Resource of Selected Philippine Coalfields: A New Alternative Clean-Burning Fossil Fuels	16.841
Resource Assessment of Low Enthalpy Geothermal Resources in the Philippines	3.500



MFO 6 – Energy Efficiency and Conservation Programs Promoted and Implemented	<u>16.796</u>
Administration and promotion of energy efficiency and conservation activities for the government, industrial, commercial, residential and transport sectors	4.751
Power Conservation and Demand Management Program	3.777
Fuel Conservation and Efficiency in Road Transport	3.278
National Energy Efficiency and Conservation Program	4.990