The National Energy Efficiency and Conservation Program

Presented by
Francisco A. Benito - DOE Assistant Secretary
ENERGY INDEPENDENCE PACKAGE

5-Point Plan

1. Increase reserves of indigenous oil and gas
2. Aggressively develop renewable energy potential such as biomass, solar, wind and ocean resources
3. Increase the use of alternative fuels
4. Form strategic alliances with other countries
5. Strengthen & enhance energy efficiency and conservation programs
ENERGY INDEPENDENCE PACKAGE

(5) Strengthen Energy Efficiency & Conservation Programs

- DOE to push for mandatory implementation of nationwide energy efficiency & conservation program
  - CNG for transport buses
  - Biofuels as mandatory fuel blends
  - Expand scope of energy labeling to other appliances, vehicles, electrical devices & equipment
  - Shift to energy efficient lighting in residential, commercial & industrial establishments
Why do we want to make energy conservation a way of life?

• to cushion the impact of rising energy prices
• to reduce expenditures on fuel and electricity without sacrificing productivity
• to contribute to the protection of the environment
**OBJECTIVE**

_To make energy efficiency and conservation (EE&C) a way of life_

**GOALS**

- To improve utilization of all forms of energy
- To achieve an average annual energy savings of 23 MMBFOE (annual reduction of 12% in oil importations and forex savings of $784Mn)
- To achieve an average annual 5,086 Gg CO₂ equivalent emissions avoidance
TWO-PRONGED PROGRAM

- Fuel Efficiency and Conservation Program
- Electricity Efficiency and Conservation Program
National Energy Efficiency and Conservation Program

Strategies:
- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Voluntary Agreement
- Monitoring & Evaluation
- Energy Management Program
- Energy Labeling & Efficiency Standards
- Energy Use Standards for Buildings
- Government Enercon Program
- Government Enercon Program

DEPARTMENT OF ENERGY
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Monitoring & Evaluation
- Energy Management Program
- Voluntary Agreement
- Energy Labeling & Efficiency Standards
- Energy Use Standards for Buildings
- Government Enercon Program

DEPARTMENT OF ENERGY
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Website on Energy Efficiency & Conservation

http://www.doe.gov.ph/neecp/
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Energy Efficiency & Conservation Logo

way of life

energy conservation
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Website & Logo Launch

http://www.doe.gov.ph/neecep/

Official launching : Aug. 28, 2004

Pulong Bayan ni PGMA
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Road Transport Patrol

Seminar / Workshop on Fuel Conservation & Efficiency in Road Transport

- A campaign on the efficient use of fuel through proper vehicle maintenance, efficient driving and values formation among drivers

- Seminars
  - Sept. 7, 2004 - Bulwagan, LTO, Q. C.
  - Sept. 16, 2004 - Almendras Gymnasium, Davao City
  - March 15, 2005 – Cebu City
  - May 18, 2005 – Cagayan de Oro City

Focal Person: Jocelyn Santiago (EUMB-EECD)
Fuel Economy Run

- various types of vehicles are subjected to test runs under standard conditions
- results may be used by manufacturers as benchmarks for producing more energy efficient vehicles in the future
- empowers the consumer in choosing the more energy efficient brand or model of vehicle

- Ma-a Shell Service Station, Davao City - September 17, 2004
- NLT2 - Shell Service Station, North Luzon Expressway (Southbound) - March 18, 2005

Focal Person: Genevieve Almonares (EUMB-EECD)
### Fuel Economy Run

**• Davao City, MAA Shell Station - September 17**

#### Results

<table>
<thead>
<tr>
<th>Engine Make/Model</th>
<th>km/liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toyota Vios (1.3)/2004</td>
<td>25.12</td>
</tr>
<tr>
<td>Toyota Vios (1.3)</td>
<td>23.42</td>
</tr>
<tr>
<td>Toyota Vios (1.5)</td>
<td>20.67</td>
</tr>
<tr>
<td>Honda City (1.3)/2003</td>
<td>20.52</td>
</tr>
<tr>
<td>Honda City (1.3)</td>
<td>19.83</td>
</tr>
<tr>
<td>Toyota Altis (1.8)/2003</td>
<td>19.47</td>
</tr>
<tr>
<td>Toyota Vios (1.5)</td>
<td>18.79</td>
</tr>
<tr>
<td>Kia Pride (1.1)/CD5</td>
<td>18.03</td>
</tr>
<tr>
<td>Kia Rio (1.3)/2004</td>
<td>17.01</td>
</tr>
<tr>
<td>Honda City (1.3)/2003</td>
<td>16.21</td>
</tr>
</tbody>
</table>

Focal Person: Genevieve Almonares (EUMB-EECD)
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Infomercials/Publications/Collaterals

Fuel Efficiency and Conservation

- Gas Drop Ad (TV & Cinema)
- GASFAR (Newspapers, Comics, Magazine, Radio)
Fuel Efficiency and Conservation

- GASFAR – Philippine Daily Inquirer (daily from Aug. 7 to Sept. 6, 2004)
- For reprinting in the Philippine Daily Inquirer from February to March 2005.
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Infomercials/Publications/Collaterals

Fuel Efficiency and Conservation

- Fuel Tipid Tips (Newspapers, Brochures, Leaflets)

FUEL TIPID TIPS

- Keep your engine properly tuned. Tuning a car can improve gas mileage up to 4 percent.
- Keep tires properly inflated to improve your gas mileage by more than 3 percent.
- Share a ride with others to reduce your fuel costs and the wear on your car.
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Infomercials/Publications/Collaterals

Fuel Efficiency and Conservation

- Power of Choice Ad (Newspaper)
- Mediatron Traffic Advisory and EE&C Tips
Fuel Efficiency and Conservation

INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Infomercials/Publications/Collaterals

Power Conservation and Demand Management


ELECTRICITY SAVING TIPS

Defrost the refrigerator regularly. Thick frost in refrigerator will increase electricity consumption.
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Infomercials/Publications/Collaterals

• Energy Conservation Tips Contest thru Enertxt
• On-the-spot Poster Making Contest
  ▪ Manila – Dec. 7, 2004
  ▪ Davao – October 6, 2005
  ▪ Manila – December 8, 2005

Committee Chair: Romeo Francisco (NPC)
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Basketball Exhibition and Fuel Efficiency Seminar

Sept. 24, 2004 – 7:30 to 9 am

Pandacan Linear Park

Committee Chair: Dir. Zenaida Y. Monsada

DEPARTMENT OF ENERGY
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

“UNDAS SA GAS”

• “pick-a-prize” promotional campaign in various gasoline stations during All Saints Day celebration

• Conducted on Oct. 26 – 29

  ▪ Launched at Petron Service Station, Blue Wave, Macapagal Blvd.

  ▪ Other stations
    o Petron (Buendia, Domestic Rd.)
    o Total (Sucat, Pulilan)
    o Shell (SLEX, Binan)

Committee Chair: Dir. Zenaida Y. Monsada
INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN

Power Patrol Program

- awareness campaign on the judicious and efficient utilization of electricity considered as the main advocacy vehicle for the household, academe, commercial and industrial/manufacturing sectors
  - September 22, 2004 at POVEDA in conjunction with “Park & Wait” Program
  - Seminar for Industrial Locators in Ecozones – November 5, 2004 Mactan Economic Zone, Cebu
  - Seminar on Energy Efficiency for Buildings in Southeast Asia – November 12, 2004 at City Garden Hotel, Makati City

Focal Person: Artemio Habitan (EUMB-EECD)
Power Patrol Program

- In conjunction with the Launching of the Park and Wait (Anti-Idling Program) in Assumption College, Antipolo City on February 9, 2005.
- April 20, 2005 – Power Patrol Seminar and Park and Wait Launching - Davao City
- June 22, 2005 – Power Patrol Seminar and Park and Wait Launching - Iloilo City

Focal Person: Artemio Habitan (EUMB-EECD)
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Voluntary Agreements
- Energy Management Program
- Energy Use Standards for Buildings
- Energy Labeling & Efficiency Standards
- Government Enercon Program
- Campaign
- Voluntary Agreements
VOLUNTARY AGREEMENT

Car Less Day

Don’t be Careless, Go “Car-less”

- fuel conservation measure that encourages motorists to burn calories instead of fossil fuel, reduce traffic congestion and air pollution, and leave the car at home one day a week

- Launchings on February 24, 2005 at Marikina City and on May 12, 2005 at Makati City.

"MY CAR-LESS DAY IS MONDAY"

Committee Chair : Asst. Dir. Mario Marasigan (EUMB)
CAR POOLING PROGRAM OF:

Department of Energy
Energy Efficiency and Conservation Division
Tel. No. (02) 840-2243, Trunkline (02) 840-1401 local 201 & 214
Enertext (2920) Website www.doe.gov.ph

Committee Chair: Asst. Dir. Mario Marasigan (EUMB)
VOLUNTARY AGREEMENT

Park & Wait (Anti-idling)

- encourages motorists to turn off their engines when parking

- Launched on September 22, 2004 at POVEDA.
- Assumption College, Antipolo City - February 9, 2005
- Other schools - International School, British School, Japanese School, La Salle Univ., Miriam College, Ateneo de Manila University

Breathe easier, turn off your engine.

Committee Chair : Asst. Dir. Ramon Oca (ERDB)
VOLUNTARY AGREEMENT

Placemates Program

• encourages the leading food chains to use placemats with fuel efficiency and conservation, as well as power conservation and demand management themes

• McDonald’s Makati Cinema Square – Sept. 21, 2004.

• Will re-issue additional copies on February to March 2005.

Committee Chair : Aurora Dionisio (AS-HRMD)
VOLUNTARY AGREEMENT

Placemates Program

• Pancake House Paseo de Magallanes – Sept. 28, 2004
• Pizza Hut, Cubao – May 2005

Committee Chair : Aurora Dionisio (AS-HRMD)
VOLUNTARY AGREEMENT

Partnership for Energy Responsive Transport System (PERTS)

Park & Ride

• encourages the use of parking spaces where vehicle owners can leave their vehicles and then use the public transport system for their onward trips
  • Launched on November 17, 2004 in Park N Ride, Lawton, Manila
  • May 6, 2005 – MRT Gateway, Cubao
  • Nov. 11, 2005 – MRT North EDSA

"Drive LESS, arrive FRESH"

PARK & RIDE PROGRAM OF:
Department of Energy
Energy Efficiency and Conservation Division
Tel. No. (02) 840-2243, Trunkline (02) 840-1401 local 201 & 214
Enertext (2920) Website www.doe.gov.ph

Committee Chair: Vilma Hernandez (EUMB-EECD)
VOLUNTARY AGREEMENT

Partnership for Energy Responsive Transport System (PERTS)

Park & Walk

- encourages vehicle owners to park their vehicles and use bridgeways and walkpaths to move around commercial centers

- Launched on Nov. 18, 2004 in Ayala Land, Inc., Makati City
- January 27, 2005 - Ayala Center, Cebu City
- March 11, 2005 - Robinsons Galleria, Ortigas Center

Committee Chair: Dir. Elizabeth G. Navalta

(DEPARTMENT OF ENERGY)

(EP)
VOLUNTARY AGREEMENT

Partnership for Energy Responsive Transport System (PERTS)

Park & Pick

- encourages vehicles, particularly taxis, to park only at designated places or sites
- January 27, 2005 – Ayala Center, Cebu City
- March 11, 2005 – Robinsons Galleria, Ortigas Center

"We will QUEUE you up"
VOLUNTARY AGREEMENT

Partnership for Energy Responsive Transport System (PERTS)

Park2Fly

- encourages parking at facilities made available near or at the airport for domestic airline passengers.

- February 11, 2005 – Parañaque City
- March 15, 2005 – Cebu City
- April 19, 2005 – Davao City

"Aim high for fuel CONSERVATION"

PARK2FLY PROGRAM

Committee Chair: Maximino Marquez (EUMB-EECD)
VOLUNTARY AGREEMENT

Partnership for Energy Responsive Companies (PERCS)

- encourages industrial and commercial establishments to voluntarily monitor their energy consumption and implement EE&C programs

Participating Companies

- DOLE Philippines Inc.
- Passi Ilo-Ilo Sugar Central Inc.
- Richmonde Hotel
- Manila Galleria Suites
- Corinthian Plaza Condominium
- Makati Prince Tower Condominium Corp.
- & 18 other establishments & ESCOs

- Promotion in Mactan Economic Zone, Cebu during Seminar for Industrial Locators in Ecozones last November 5, 2004.
- Promotion in CALABARZON areas during Training Seminar on Industrial Energy Efficiency last January 17-18, 2005.

Focal persons: Joan Sotello & Antonio Basco (EUMB-EECD)
VOLUNTARY AGREEMENT

Partnership for Energy Responsive Ecozones (PEREZ)

• a government-private sector partnership to encourage industrial ecozones to voluntarily monitor their energy consumption and implement EE&C programs

Participating Companies
- Microtel Inn & Suites
- SHI Mfg. & Services Philippines
- Integrated Device Technology
- Toshiba Information Eqpt. Phils. Inc.
- Pentax Luzon Philippines Inc.
- Hello Snack Foods Corp.

• Promotion in Mactan Economic Zone, Cebu during Seminar for Industrial Locators in Ecozones last November 5, 2004.
• Promotion in CALABARZON areas during Training Seminar on Industrial Energy Efficiency last January 17-18, 2005.

Focal persons: Joan Sotello & Antonio Basco (EUMB-EECD)
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Monitoring & Evaluation
- Energy Management Program
- Government Enercon Program
- Energy Use Standards for Buildings
- Voluntary Agreement
- Energy Labeling & Efficiency Standards
- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Monitoring & Evaluation
- Energy Management Program
- Government Enercon Program
- Energy Use Standards for Buildings
- Voluntary Agreement
- Energy Labeling & Efficiency Standards
ENERGY LABELLING AND EFFICIENCY STANDARDS

Energy Standards & Labeling of Appliances/Equipment

- aims to improve the efficiency and performance of appliances, equipment and other energy consuming devices
- requires the attachment of a label that would show the energy ratings of the product right at the point of sale
- empowers the consumer in choosing the more energy efficient brand or model

Committee Chair: Dir. Raquel S. Huliganga (ERTLS)
ENERGY LABELING AND EFFICIENCY STANDARDS

Energy Standards & Labeling of Appliances/Equipment

- Palit-Illaw
  - DOE – October 4, 2004
  - Glorietta, Makati – Nov. 10, 2004
  - Cebu City – March 15, 2005
  - Davao City – April 2005
  - Cagayan de Oro – May 2005
  - Iloilo – June 2005

- DOE/UNDP/DENR approval of Project Documents on PELMATP – Dec. 23, 2004
- MOU Signing by 13 co-financiers re:PELMATP Project – January 24, 2005

Committee Chair: Dir. Raquel S. Huliganga (ERTLS)
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Voluntary Agreement
- Monitoring & Evaluation
- Energy Management Program
- Energy Labeling & Efficiency Standards
- Energy Use Standards for Buildings
- Government Enercon Program
ENERGY USE STANDARDS FOR BUILDINGS

  - Manila – November 23, 2004
  - Quezon City – December 15, 2004
  - Taguig – February 17, 2005
  - Makati City – May 12, 2005
  - Parañaque City – June 14, 2005
  - Mandaluyong City – August 16, 2005
  - Pasig City – October 18, 2005

Committee Chair: Antonio Nabong (EUMB-EECD)
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Voluntary Agreement
- Energy Management Program
- Energy Labeling & Efficiency Standards
- Energy Use Standards for Buildings
- Government Enercon Program
- Energy Use Standards for Buildings
GOVERNMENT ENERCON PROGRAM

“Enercon sa Gobyerno Ginhawa sa Pilipino”

• aims to integrate energy efficiency concepts into the procurement practices of government agencies, bureaus and offices
  ▪ 10% reduction in electricity and fuel consumption
  ▪ energy consumption monitoring
  ▪ recognition program
GOVERNMENT ENERCON PROGRAM

“Enercon sa Gobyerno Ginhawa sa Pilipino”

• Administrative Order No. 103 on austerity measures and energy conservation.

• Administrative Order No. 110 “Directing the Institutionalization of a Government Energy Management Program” was approved on October 25, 2004.

• 1st Consultative Meeting on the Implementing Rules and Regulation (IRR) of A.O. 110 with DTI, COA and DBM on February 2005 at DOE.

• Orientation with government agencies re: IRR on March 31 at DOE.
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Voluntary Agreement
- Monitoring & Evaluation
- Energy Labeling & Efficiency Standards
- Energy Use Standards for Buildings
- Energy Management Program
- Government Enercon Program

DEPARTMENT OF ENERGY
Energy audit services of the Department help companies or establishments determine their energy use patterns and identify energy conservation in all energy-consuming sectors (continuing program).
Supply Side Energy Efficiency

Heat Rate Improvement in Power Plants

• to bring the actual performance level of all NPC and IPP generating units close to their optimum performance levels
DEPARTMENT OF ENERGY

Recognition Programs

Don Emilio Abello Energy Efficiency Award

- Awarding of outstanding companies and energy managers who have undertaken or are responsible in implementing energy efficiency and conservation programs to achieve substantial savings in their energy consumption. The Awarding Ceremony was held on December 7, 2004 at Petron Mega Plaza, Makati City.

This recognition awards program posted an energy savings of 112.11 million liters of oil equivalent (MMLOE) with an equivalent peso savings of 1.22 billion.
**ASEAN Best Practices Award in Building**

- a regional competition that awards commercial companies which have voluntarily applied energy efficient concepts and technologies in their buildings in harmony with the overall energy efficiency agenda for the country and for the region.

- 6750 Office Tower won First Runner-up in the Retrofitted Building Category with estimated total energy savings of 334,805 kWh/year.
ENERGY MANAGEMENT PROGRAM

Systems Loss Reduction

• requires electric utilities to reduce systems losses to ensure that power rates reflect only actual consumption
Energy Management Program

Systems Loss Reduction

- Seminar Workshops for Electric Cooperatives
  - Luzon - Sept. 16-17, 2004
  - Visayas – Mindanao – Sept. 22-23, 2004
- MOU with Electric Cooperatives
- Pledge of Commitment to Reduce Systems Loss

Committee Chair: Valeriano Infante (NEA)
National Energy Efficiency and Conservation Program

Strategies:

- Information, Education and Communication Campaign
- Alternative Fuels and Technologies
- Voluntary Agreement
- Energy Management Program
- Energy Labeling & Efficiency Standards
- Energy Use Standards for Buildings
- Government Enercon Program
ALTERNATIVE FUELS & TECHNOLOGIES

- Coco Methyl Ester (CME) Program
- Natural Gas Vehicle Program for Public Transport (NGVPPT)
- Ethanol
The government should take the lead in energy conservation!
THANK YOU

www.doe.gov.ph/neecp/