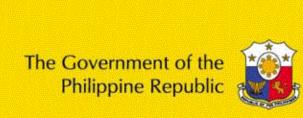
The National Energy Efficiency and Conservation Program



Presented by
Francisco A. Benito – DOE Assistant Secretary





ENERGY INDEPENDENCE PACKAGE

5-Point Plan

- 1. Increase reserves of indigenous oil and gas
- Aggressively develop renewable energy potential such as biomass, solar, wind and ocean resources
- 3. Increase the use of alternative fuels
- 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

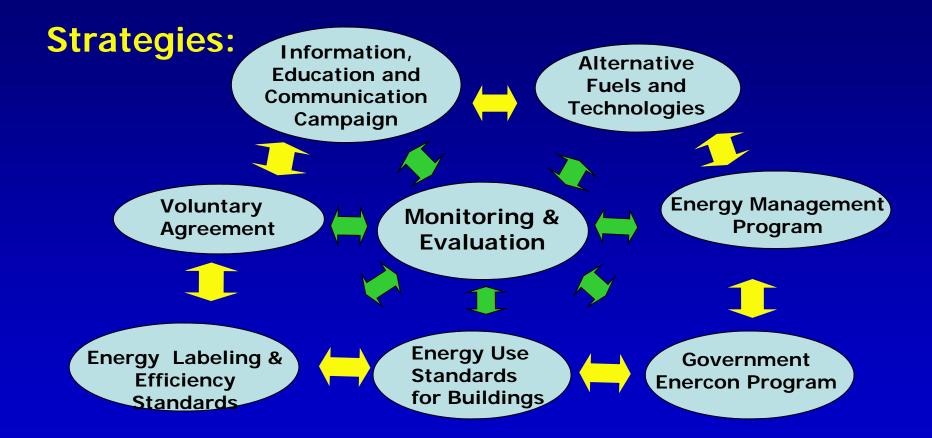
 Fuel Efficiency and Conservation Program

 Electricity Efficiency and Conservation Program





National Energy Efficiency and Conservation Program







National Energy Efficiency and Conservation Program

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





Website on Energy Efficiency & Conservation

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







Energy Efficiency & Conservation Logo



Website & Logo Launch

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





Official launching : Aug. 28, 2004

Pulong Bayan ni PGMA





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



- 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

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



Infomercials/Publications/Collaterals

Fuel Efficiency and Conservation

- Gas Drop Ad (TV & Cinema)
- GASFAR (Newspapers, Comics, Magazine, Radio)







Infomercials/Publications/Collaterals

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.







Infomercials/Publications/Collaterals

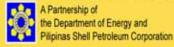
Fuel Efficiency and Conservation

- Fuel Tipid Tips (Newspapers, Brochures, Leaflets)
- Philippine Star c/o Shell (Aug. 13 Sept. 3, 2004)



FUEL TIPID TIPS

- Keep your engine properly tuned. Tuning a car can improve gas milage 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.





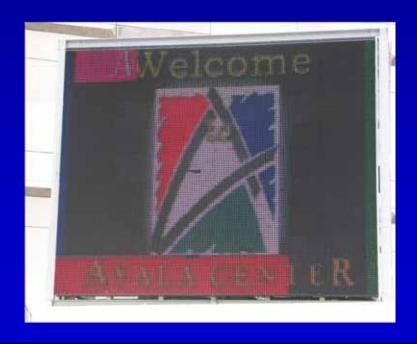




Infomercials/Publications/Collaterals

Fuel Efficiency and Conservation

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







Infomercials/Publications/Collaterals

Fuel Efficiency and Conservation

 Mediatron Traffic Advisory and EE&C Tips – conducted meeting with Ayala Land Inc. last Aug. 18, 2004.







<u>Infomercials/Publications/Collaterals</u> *Power Conservation and Demand Management*

Conservation Tips for Electricity (Regular & Tag-init) – reaired over Channels 5, 9, 13 & 25 last Oct. 22 – Nov. 21, 2004.

Electricity Saving Tips – Philippine Star (Sept. 1 – 30, 2004).
 For reprinting in the Philippine Star from February to March

2005.







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

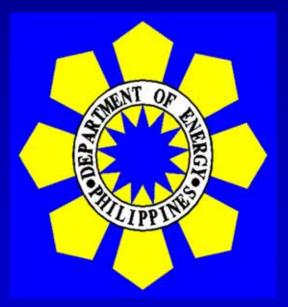




Basketball Exhibition and Fuel Efficiency
Seminar

Sept. 24, 2004 – 7:30 to 9 am

Pandacan Linear Park



VS.







INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN "UNDAS SA GAS"



Conducted on Oct. 26 – 29

- Launched at Petron Service Station, Blue Wave, Macapagal Blvd.
- Other stations
 - Petron (Buendia, Domestic Rd.)
 - Total (Sucat, Pulilan)









"Holy Week Vehicle Maintenance and Check-up Activity"

North and South Luzon Expressway

March 23, 2005







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



- DOE-UNIDO: Industrial Energy Efficiency Training Seminar on January 17-18, 2005 at El Cielito Inn, Sta. Rosa, Laguna.
- In conjunction with the Launching of the Park and Wait (Anti-Idling Program) in Assumption College, Antipolo City on February 9, 2005.
- February 17, 2005 2nd Regional Consultative Workshop for ASEAN Energy Managers Accreditation System.
- 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





National Energy Efficiency and Conservation Program

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





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"



CARLESS DAY PROGRAM

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/neecp/

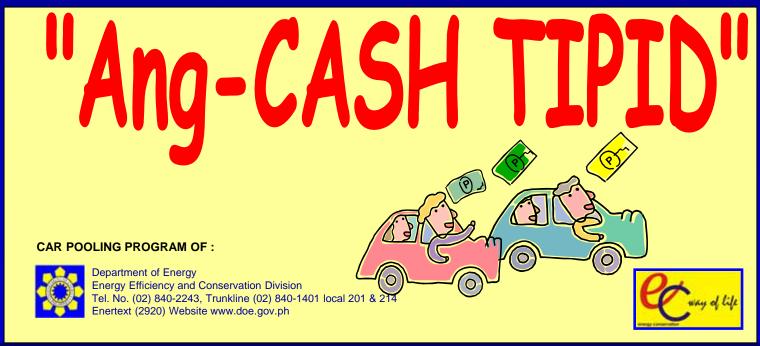




Committee Chair: Asst. Dir. Mario Marasigan (EUMB)

VOLUNTARY AGREEMENT <u>Carpooling</u>

- consists of three or more people that commute to work or other destinations in a private vehicle in which members work out their own arrangements on who drives and how often, schedules, and payments of gas and maintenance
 - Launchings on February 24, 2005 at Marikina City and on May 12, 2005 at Makati City.



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

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



is a bad habit

Breathe easier, turn off your engine.

PARK & WAIT 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

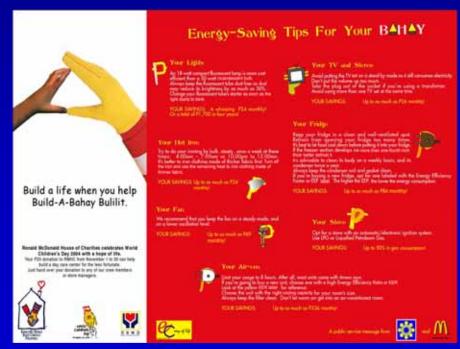




Committee Chair: Asst. Dir. Ramon Oca (ERDB)

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.







Placemates Program





- Pancake House Paseo de Magallanes – Sept. 28, 2004
- McDonald's Greenbelt Drive-Thru Press Coverage - Oct. 7, 2004.





Committee Chair: Aurora Dionisio (AS-HRMD)

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



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)

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

Partnership for Energy Responsive Transport System (PERTS)

Park & Pick

- encourages vehicles, particularly taxis, to park only at designated places or sites
- 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

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



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





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)

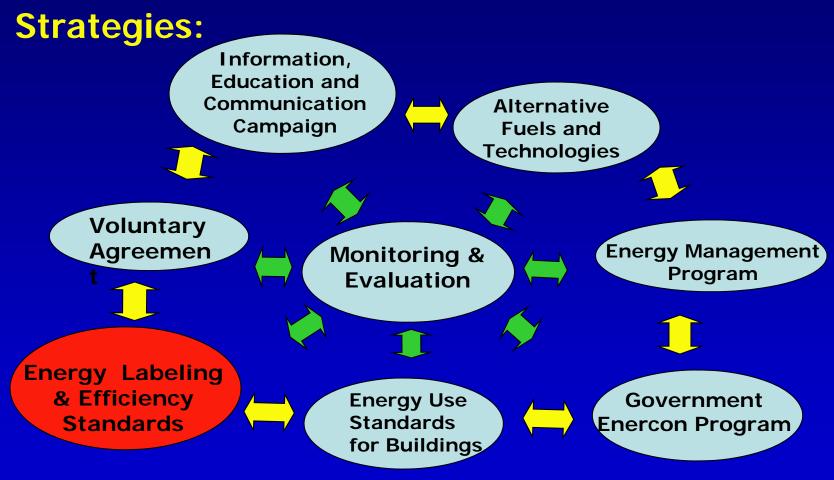


 a government-private sector partnership to encourage industrial ecozones to voluntarily monitor their energy consumption and implement EE&C programs

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.



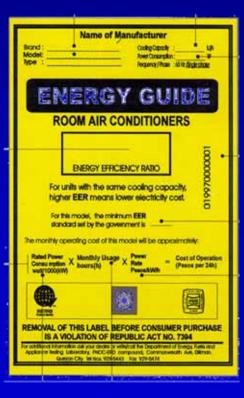






ENERGY LABELING AND EFFICIENCY STANDARDS

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

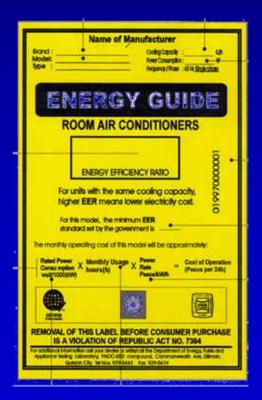




ENERGY LABELING AND EFFICIENCY STANDARDS

Energy Standards & Labeling of Appliances/Equipment

Palit-llaw

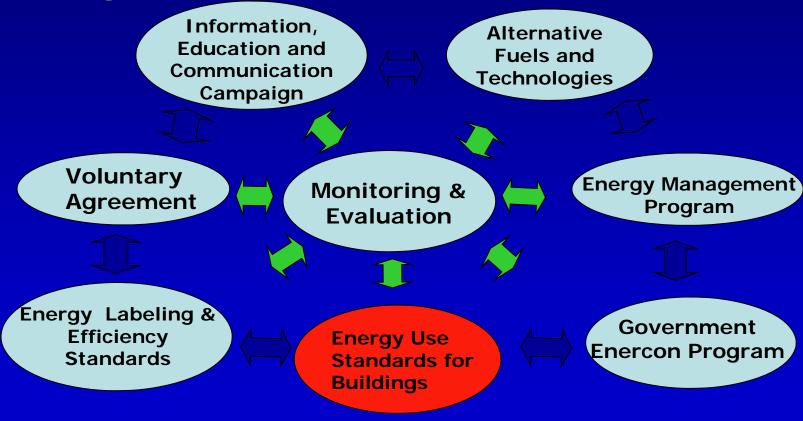


- DOE October 4, 2004
- Glorietta, Makati Nov. 10, 2004
- Cebu City March 15, 2005
- Davao City April 2005
- Cagayan de Oro May 2005
- Iloilo June 2005
- DOE/UNDP/DENR approval of Project Documents on PELMATP – Dec. 23, 2004
- MOU Signing by 13 co-financiers re:PELMATP Project – January 24, 2005





Strategies:







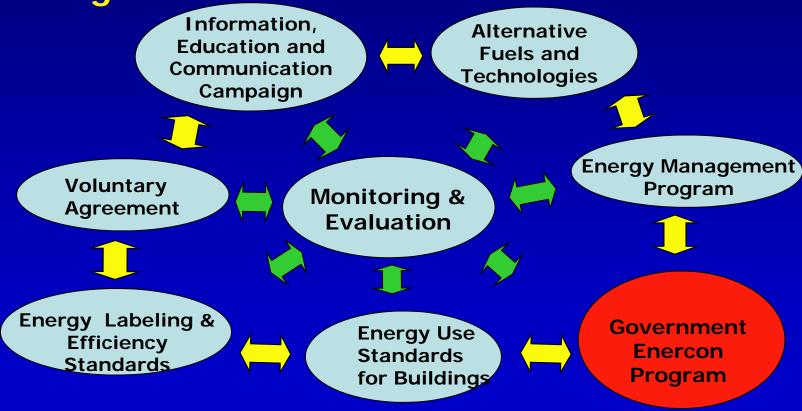
ENERGY USE STANDARDS FOR BUILDINGS

- Pledge of Commitment with LGUs on the adoption of the Guidelines for Energy Conserving Design of Buildings and Utility System.
 - 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





Strategies:







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





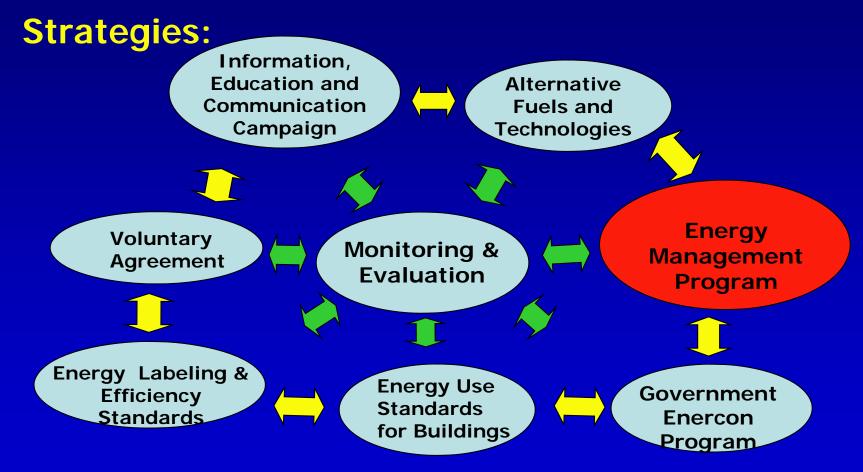
GOVERNMENT ENERCON PROGRAM

"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.











Conduct of Energy Audit



Energy audit services of the Department help companies or establishments determine their energy use patterns and identify energy conservation in all energyconsuming 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





ENERGY MANAGEMENT PROGRAM 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.



Recognition Programs

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.



Systems Loss Reduction

 requires electric utilities to reduce systems losses to ensure that power rates reflect only actual consumption



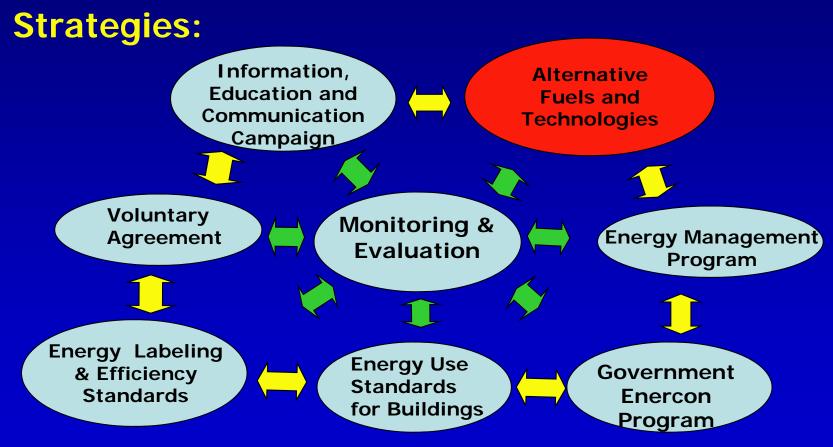


Systems Loss Reduction

- 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











ALTERNATIVE FUELS & TECHNOLOGIES

- Coco Methyl Ester (CME) Program
- Natural Gas Vehicle Program for Public Transport (NGVPPT)
- Ethanol





CONCLUSION

The government should take the lead in energy conservation!





www.doe.gov.ph/neecp/



