

SEC. VINCE S. PÉREZ
Department of Energy



OUTLINE OF PRESENTATION

- Status of EPIRA Implementation
 - ◆ Reforms
 - **♦** Privatization
 - ◆ IPP Review
- Priority Energy Projects/Programs
- Status of the Philippine Power Sector
 - ◆ Luzon, Visayas, Mindanao
 - ◆ Critical: Cebu, Negros, Panay (CNP) Situation
- Impact of Reforms
- Conclusion



What has been done

- Creation of new, independent ERC
- Creation of PSALM
- Creation of TRANSCO
- Reorganization of:
 - ◆ DOE (done)
 - ♦ NPC (done)
 - ◆ Transco (done)
 - **♦ NEA (On-going)**



What has been done, 2001-2002

Implementation of the P0.30/kWh Mandated Rate Reduction	Aug. 2001
Promulgation of Distribution & Grid Codes	Dec. 2001
Promulgation of EPIRA-IRR	Feb. 27, 2002
ERC's issuance of Demonopolization & Shareholding Dispersal	26 Mar 2002
Unbundling of NPC Rates	26 June 2002
ERC's issuance of Rules on GenCos Certificate of Compliance	26 June, 2002

What has been done, 2001-2002

Adoption/Promulgation of WESM Rules	28 June 2002
Launching of PGMA's 10-Pt. Plan to Reduce Power Rates	28 June 2002
Completion of the Review of NPC IPP Contracts	05 July 2002
Launching of the Special Program to Enhance Electricity Demand	July 2002
Issuance of E.O. 119 on Electric Coops Loan Condonation	28 Aug. 2002
Approval of the Priva Plan for NPC Generation Assets and TRANSCO through Concession	28 Aug. 2002



What Has Been Done, 2003

- Promulgation of Transco's Performance-Based Rate Making Methodology
- Open Access Transmission Service (OATS) Rules
- WESM's Price Determination Methodology
- NPC awaiting ERC approval on the Long-Run Avoidable Cost/Time of Use Pricing scheme
- Performance-Based Rate Making Methodology for DUs
- Review of Systems Loss Cap Guidelines

Unbundling

- Generation Rate Adjustment Mechanism (GRAM)
- Incremental Currency Exchange Rate Adjustment (ICERA)
- Unbundling of MERALCO's billing
- ERC to date, has decided on unbundling of rates application of <u>20 ECs</u>, 2 DUs
- ERC introduced pre-tax WACC



Loan Condonation

- ERC granted provisional authority to 100 ECs to reduce rates as a result of loan condonation
 - 49 ECs in Luzon
 - 25 in Visayas
 - 26 in Mindanao
- Approx. 5 million consumers nationwide expected to enjoy lower rates

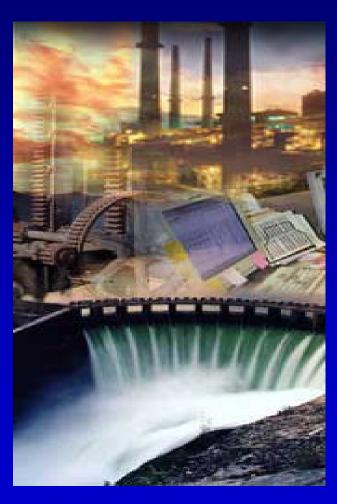
Wholesale Electricity Spot Market

- Market Management System (MMS) Turnkey Project
 - Bidding among shortlisted firms held last June
 - Five firms qualified, technical evaluation on-going (ABB, Logica, Alstom, Siemens, Mitsubishi)
 - TWG presenting to Transco Bids & Awards Committee 30 July
- WESM Project Management Consultancy Services
 - Bidding among shortlisted firms held last June (On-Line Systems, KEMA, APW, EFRI, M-Co)
 - Technical evaluation submitted to ADB for concurrence
- Set-up Market Operator site
 - Robinsons Equitable Tower, ready by September



Wholesale Electricity Spot Market

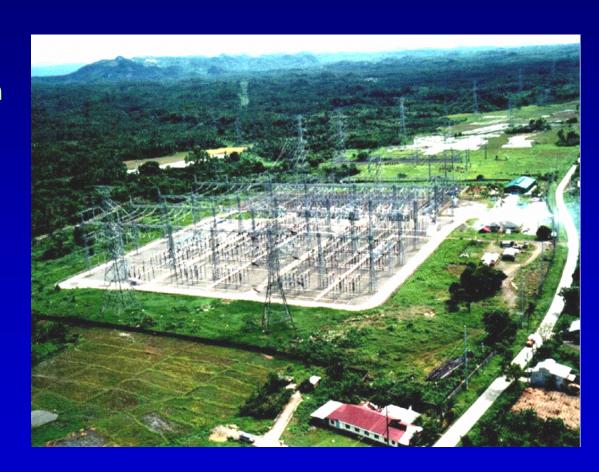
- Commencement of demo market by late Aug. 2003
- Constitution of the AGMO by 4Q 2003
- Trial introduction of demo WESM in Luzon by 4Q '03
- Full WESM by 30 June '04



TRANSCO PRIVATIZATION

Transmission Assets

- 20,729 circuit-kms
- 141 substations with total capacity of 23,628 MVA
- US\$ 1.8 billion rate base
- Privatization via 2phased concession
- Completed Bidding Package as of 21 April 2003



TRANSCO PRIVATIZATION TRANSCO's Timeline

Next Steps

- On-the-ground Due Diligence
- Pre-qualification

- Qualification
- Bidding and Award



Ongoing duediligence

Prequalification Commence onthe-ground due diligence

Pre-bid Conference

Announce
Qualified Bidders

Opening of Bids, Notification of Winning Bidder



GENCO PRIVATIZATION

Preparing for Privatization

1. Asset Sales

Plants

- Pinamucan
- Navotas I

Rationale

- IPP contracts due to expire; plants need to be relocated from site
- Do not require WESM

2. Initial Sales

Plants

- Sucat; Limay
- Bohol / Loboc
- Talomo
- Ambuklao / Binga

Rationale

- Energy integration opportunities gas
- Investor interest

3. All Other Generation Assets

Plants

- All other plants (including Masinloc and Calaca)
- Individual plants groupings

Rationale

 Groupings to be based on investor feedback



IPP CONTRACTS REVIEW

Overview of IPPs & Sponsors

Aboitiz / Pacific Hydro	Benguet (Ampohaw) Bakun
Alsons / Tomen	Iligan City 1 Iligan City 1 Zamboanga General Santos
Alstom	Limay Bataan A & B
BPPC	Bauang La Union
Covanta	Cavite EPZA Bataan EPZA
Enron	Pinamucan Subic Zambales
IMPSA / EME	CBK
KEPCO	Malaya Ilijan Gas

Sithe Marubeni	San Roque
Mirant	Navota I-III
	Navotas IV
	Pagbilao Pagbilao
	Sual
Mitsui	Mindanao Barges
NIA	Casecnan
Ormat	MakBan Binary
PNOC-EDC	Leyte A&B
	Mt. Apo I
	Mt. Apo II
Salcon	Naga Complex
State Power	Mindanao Coal
Chevron-Texaco	San Pascual
ВНЕРІ	Binga

Total 18 firms/consortia representing 32 IPP contracts
Private sector BOT contractors in NIA-Casecnan and PNOC-EDC projects



IPP CONTRACTS REVIEW

Overview of Status to Date

11 Contracts -	Agreement concluded (Enron, Mirant, BHEPI, Aboitiz, SRMP, Min. Coal NO IAC issues outstanding
3 Contracts -	No IAC issues, no scope for savings (Ambuklao, Paragua, Toledo No action being taken
1 Contracts -	IAC issue resolved, no scope for savings (Ormat MakBan Binary No further action being taken
5 Contracts -	Agreement in principle, documentation being finalized (Alsons, San Pascual, Mindanao Coal)
3 Contracts -	No pending IAC issues (Ilijan, Alstom – separate discussions on-going re: Limay Privatization
2 Contracts -	Recent agreements reached (CBK, Salcon)

25 out of total 35 contracts largely resolved

3 Contracts -	Discussions on-going
7 Contracts -	Pending actions by other Government Agencies



IPP CONTRACTS REVIEW

Savings per IPP

Sponsor / IPP	Savings, NPV (in US\$Mn)	Sponsor / IPP	Savings, NPV (in US\$Mn)
Mirant • Sual & Pagbilao • NAV 1-3 • NAV 4	144	State Power Corp. •Mindanao Coal	99
EnronPinamucanSubic	20	BHEPI • Binga	8.8
Aboitiz • Bakun • Benguet	13	Alsons • NMPC 1&2 • WMPC & SPPC	10.2
Chevron Texaco/EME • San Pascual	300	Salcon • Naga Complex	20
SRPC • San Roque	148	IMPSA/EME • CBK	71.3



REGIONAL POWER SITUATION



OVERVIEW

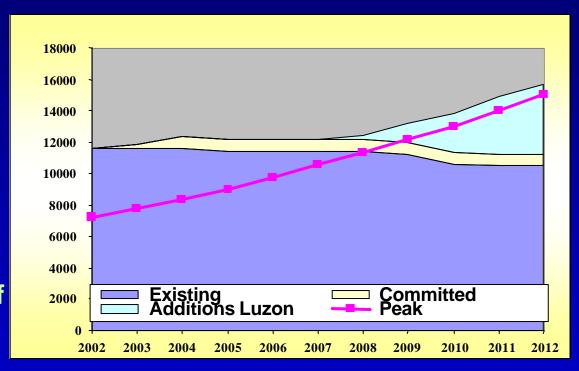
Philippine Power Development Plan

- Electricity growth rate forecast at 7.4% annually
- Elasticity: demand to GDP maintain at 1.4x
- Total installed capacity = 14,702 MW
- Dependable capacity = 12,909 MW
- Supply reliability dependent on interconnections and transmissions

SUPPLY-DEMAND PROFILE

Luzon Power Situationer

- Supply-demand situation secure only until 2007-2008
- Long-range avoidable cost rate setting proposed to encourage new investments & promote efficient use of existing capacity



LUZON POWER SITUATIONER

Major Projects for Luzon

TOTAL Committed = 760 MW:

- San Roque Hydro, 345 MW as of May '03
- Kalayaan 3 & 4, 350 MW by 1Q '04
- Northwind Wind Power, 25 MW by 4Q '04
- TIPCO/Formosa Plastics Clean
 Coal, 50 MW
- PNOC-EDC Wind Power, 40 MW by 1Q '06

TOTAL Indicative @ 2,190-2,590 MW:

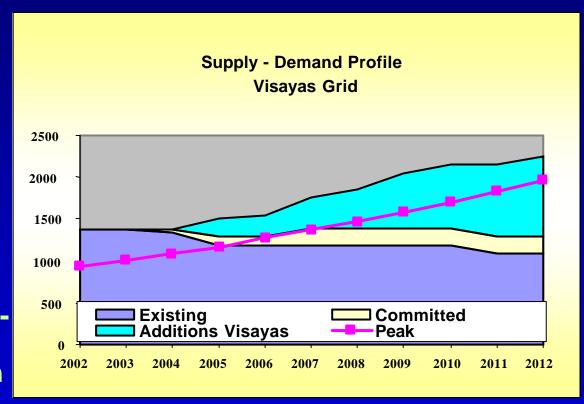
- Batangas 4 T-Lines Upgrades,
 Jan/June/Aug./Dec. '04;
 - 3 Substations Feb./May/Dec. '05
- Makban Geo-3 Rehab., Jan. '05
- BatMan Natgas pipeline, 1Q '07
- Bacman Opt., 40 MW by Sept. '07
- Sucat Priva., 450-850 MW (Bidding by 4Q '03)
- Limay Expansion (LNG), 500 MW (Bidding by 4Q '03)
- Mariveles Greenfield (LNG), 1,200
 MW



SUPPLY-DEMAND PROFILE

Visayas Power Situationer

- Supply-demand situation for the whole Visayas including Leyte-Samar
- Low generation rates discourage new investments in power generation
- However, Cebu-Negros-Panay currently in critical supply situation





VISAYAS POWER SITUATIONER

CNP Interdependence, May 2003

PANAY
Dep. Cap.
73 MW
Peak
125 MW
Deficit

-52 MW



NEGROS

Dep. Cap.
180 MW

Peak
193 MW

Deficit
-13 MW

CEBU
Dep. Cap.
346 MW
Peak
439 MW
Deficit
-93 MW

Leyte/Samar

Dep. Cap.
684 MW

Peak
173 MW

Surplus
*511 MW

Exports 100 MW (74 MW)

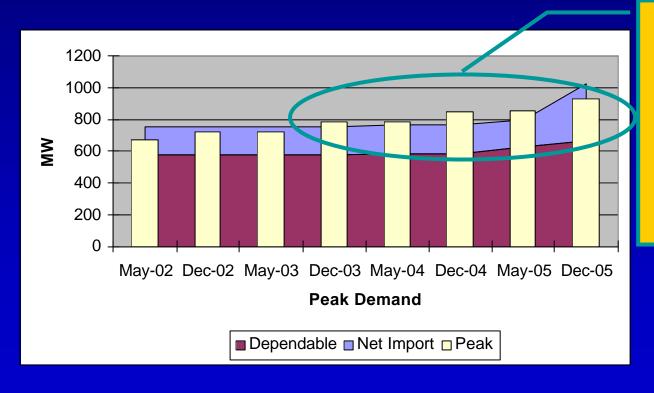
Exports 100 MW (87 MW) Exports 200 MW (180 MW)

* Most of the surplus capacity are exported to Luzon & some to Bohol



CEBU, NEGROS, PANAY (CNP)

CNP Supply-Demand Profile



Dec '03 – May '05:

Demand for electricity exceeds available supply



VISAYAS POWER SITUATIONER Major Projects for Visayas

■ Committed < 60 MW:

- Leyte-Bohol Interconnection
 40-100 MW by May '04
- Leyte-Cebu Interconnection
 200 MW by Feb. '05
- Cebu-Mactan Interconnection by Sept. '05
- Northern Negros Geothermal,40 MW by Oct. '05
- Palinpinon Optimization,20 MW by Dec. '05

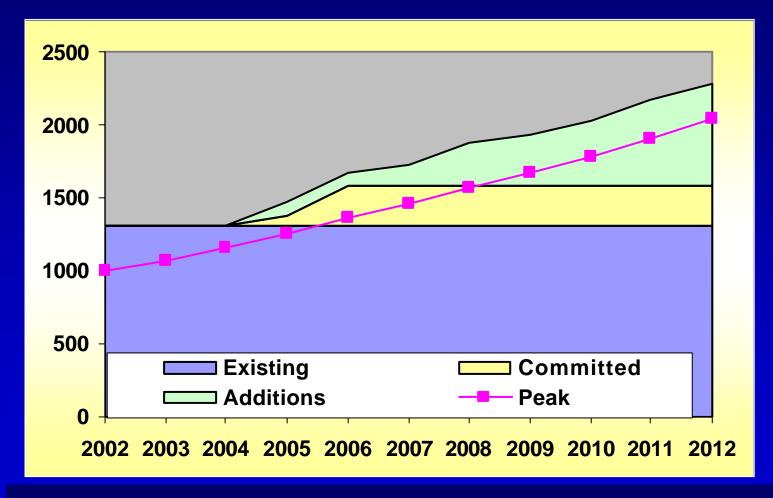
Total Indicative = 267.5 MW:

- TransAsia Diesel Power Plant (Boracay), 7.5 MW by Mar. '04
- Mirant Diesel Power Plant (Iloilo), 10 MW (8 mos. after ECC)
- Victorias Bioenergy (Negros),
 50MW by Oct. '05
- Panay Clean Coal Power Plant (KEPCO), 100 MW by end-'05
- Southern Leyte Geothermal, 100
 MW by Apr. '08



SUPPLY-DEMAND PROFILE

Mindanao Grid in MW, Low GDP Scenario

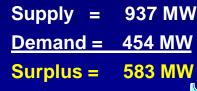




MINDANAO POWER SITUATIONER

Supply Interdependence

NORTH MINDANAO

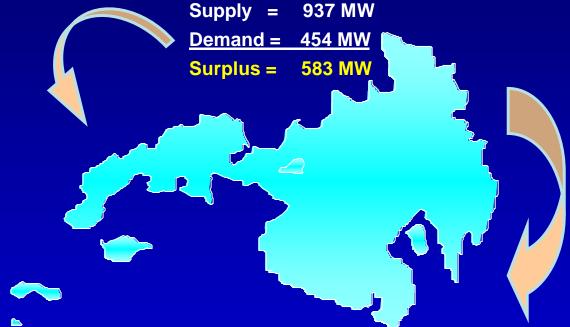


WEST MINDANAO

Supply = 85 MW

Demand = 150 MW

Deficit = 60 MW



Mindanao Total

Dep. Cap = 1,228 MW

Peak = 1,074 MW

Surplus 154 MW

SOUTH MINDANAO

Supply = 206 MW

Demand = 470 MW

Deficit = 264 MW





Results of Cebu-Negros-Panay Power Summit

- Consultations held in Iloilo, Bacolod & Cebu from 23-24 July
- Power Summit held in Cebu on 25 July
- Outcome of the Summit as follows:
 - Indefinite withdrawal of CPPC's suspension of operation
 - Covenant among CNP stakeholders (NG/LGUs, IPPs, DUs, Business Sector, NGO, Consumer Groups) to implement effectively supply- & demand-side power management programs
 - Transfer of Pinamucan to Dingle, Iloilo (110 MW)



Supply-Side Management: Generation Projects

- 1st Quarter 2004: Implementation of contracts pending in Panay and Negros
 - Mirant's PPCC & commitment to connect to the grid and to add 40 MW of capacity to Panay by early next year
 - PNOC-EDC Palimpinon Geothermal 20 MW (end 2005)
 - Northern Negros Geothermal 40MW (October 2005)
 - Victorias Bioenergy 51 MW co-generation (Oct 2005)

Supply-Side Management: Transmission Projects

- Completion of Leyte-Cebu interconnection uprating will add 200 MW to the Visayas system (2005)
- Panay Transmission Backbone Project (Dec 2005)
- Negros-Panay Interconnection Uprating (2006-2007)
- Negros-Cebu Interconnection Uprating
- TRANSCO Privatization



Rates Issues

Generation rate:

- P2.21/kWh (Jun '03 onwards) vs. P2.08/kWh (past)
 - Past rate: NPC loss estimated at P1/kWh
 - New rate: NPC loss estimated at P0.86/kWh
- NPC filed a new TOU new rates are between P2.80 (Cebu & Negros) and P2.90/kWh (Panay)
 - Rate filing is based on a Best New Entrant (BNE) price
 - Status: Awaiting ERC decision

PRIORITY ENERGY PROJECTS/PROGRAMS



PRIORITY TRANSMISSION PROJECTS

Batangas T-Line Upgrade

To augment existing transmission systems in S. Luzon & allow maximum dispatch of generating plants in the area

planto ili tilo al oa		
Location	San Lorenzo, Batangas to	
	Calamba, Laguna	
	Expansion of various S/S	
Length	80 km	
Project Cost	US\$76.68M	
Target	T-Lines Aug. 2004	
Completion Date	S/S Dec. 2005	
Status	Biddings for T-lines	
	completed	





PRIORITY TRANSMISSION PROJECTS

Leyte-Cebu Interconnection

Installation of 33 km submarine cable intended to transmit additional 200 MW demand in Cebu Island

ISIAIIU	
Location	Talisay, Cebu to Tabango, Leyte
Project Cost	US\$68.60M
Status	E-bidding scheduled today, July 30, 2003
Target Project Completion	Feb. 2005

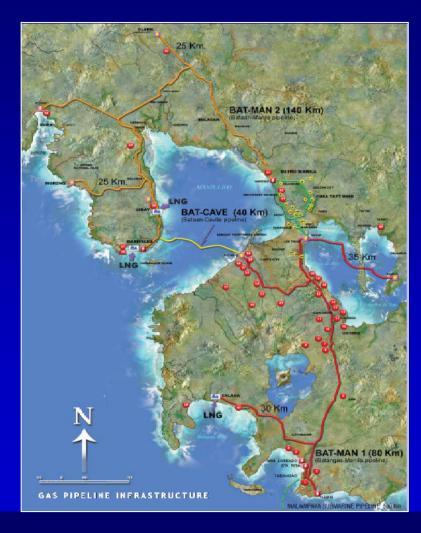




PRIORITY ENERGY PROJECTS

Development of Natural Gas

- IRR for the transmission, distribution & supply of nat gas promulgated on 27 Aug. 2002
- Natural Gas Policy Framework issued 16 October 2003
- Proposed nat gas pipeline projects
 - Batangas-Manila 1
 - Bataan-Manila 2
 - Bataan-Cavite



PRIORITY ENERGY PROJECTS

Renewable Energy

- Launched Renewable Energy Policy Framework 30 June 2003
- Targets by 2013:
 - Be the number one geothermal energy producer in the world
 - Be the number one wind energy producer in ASEAN
 - Double hydro capacity using run-of-river development scheme
 - Develop other renewable systems (i.e. solar, biomass, ocean, etc.)
 - Become a solar manufacturing base
 - Passage of appropriate measures and incentives to promote development of RE



PRIORITY ENERGY PROGRAM

Special Program to Enhance Electricity Demand

SPEED

- Approved by ERC on 25 July 2003 authorizing Meralco to implement SPEED
 - Meralco industrial customers to enjoy a P0.12/kWh discount for incremental consumption
 - To be implemented in 2 phases:
 - Phase 1: 224 eligible industrial customers with a minimum consumption of 1,000 kW
 - Phase 2: 1,148 eligible industrial & non-industrial customers with minimum consumption of 500 kW
- NPC to give a P0.50/kWh discount for bulk users in Luzon

PRIORITY ENERGY PROGRAM

Transmission Incentive Program

TIP

- Provides special rate discount to large electricity consumers availing NPC's SPEED
- Discount rate of P0.10/kWh applied to the actual monthly energy consumption
- Approved by ERC on 25 July 2003
 - To be implemented in 2 phases:
 - Phase 1: Discounts to be given to industrial and commercial customers consuming at least 1,000kW/month
 - Phase 2: Customers consuming at least 500kW/month

PRIORITY ENERGY PROGRAM

Special Program to Enhance Electricity Demand

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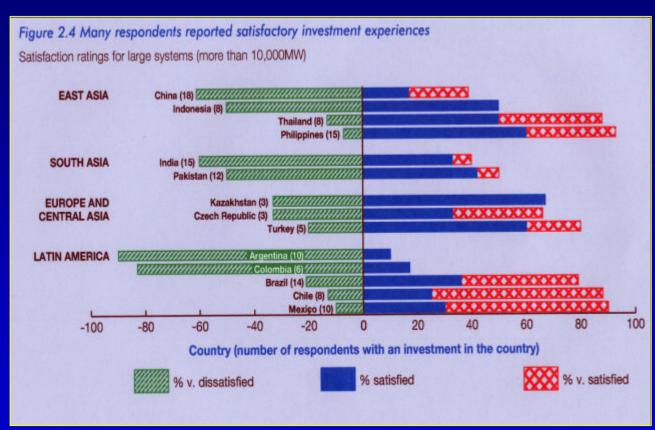


Average Electricity Rates as of July 2003, in US cents/kWh

	Resd'l.	Commil.	Indus'l.
1. Japan	21.400	14.300	14.300
2. Cambodia	17.062	17.062	15.749
3. Hongkong	16.067	13.797	13.797
4. Brunei	14.272	11.422	11.422
5. Singapore	9.159	7.121	6.645
6. Malaysia	8.947	10.527	10.527
7. Philippines	8.489	10.942	10.073
8. Myanmar	8.041	8.041	8.041
9. Vietnam	8.188	13.989	13.989
10. Thailand	7.100	7.100	6.773
11. Indonesia	4.555	5.588	4.338
12. Laos PDR	2.724	3.742	2.516

World Bank Report, May 2003

- Philippines received favorable ratings
- Of the 15 firms with investments:
 - 13 reported satisfaction with their investment experience
 - 7 said they had best experience in investment

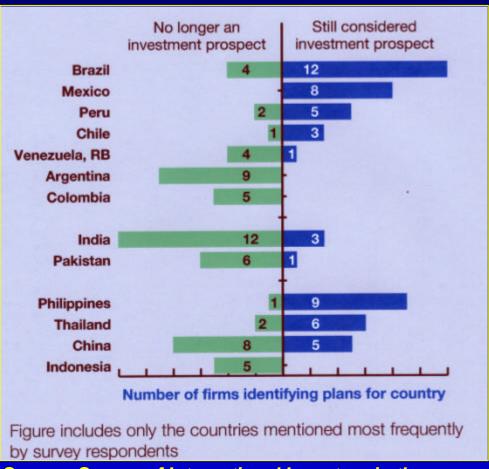


Source: Survey of International Investors in the Power Sector 2002, The World Bank Group



World Bank Report, May 2003

- Investors still consider some developing countries as prospects for more investments
 - RP ranks 2nd next to Brazil



Source: Survey of International Investors in the Power Sector 2002, The World Bank Group



CONCLUSION



CONCLUSION

Way Forward

- Power reform is only a 2-year old work-in-progress & would need the support of the private sector to make is successful
- Significant progress made despite difficult environment & new challenges
- We need to build new power plants NOW to mitigate power shortage by 2004 (Visayas), 2006 (Mindanao) & 2008 (Luzon)
- We need viable & sustainable power rates to encourage new investments in power generation and distribution
- As we proceed with the privatization process, the Government reiterates its position of upholding the sanctity of all contracts



"No electricity is the most expensive electricity"

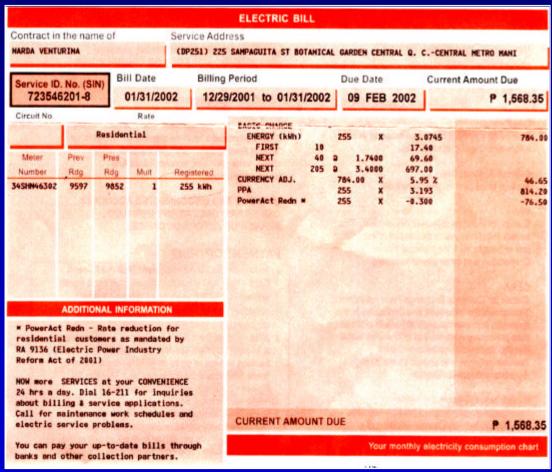
THANK YOU!

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MERALCO UNBUNDLING

Sample Billing Prior to Unbundling



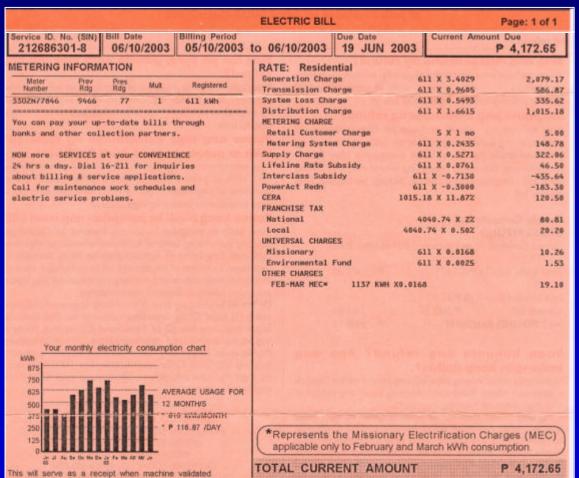
Components:

- 1. Basic Charge
- 2. Currency Adjustment
- 3. PPA
- 4. Power Act Reduction



MERALCO UNBUNDLING

Sample Unbundled Billing



Components:

- 1. Generation
- 2. Transmission
- 3. Systems Loss
- 4. Distribution
- 5. Metering
- 6. Supply
- 7. Lifeline Rate Subsidy
- 8. Interclass Subsidy
- 9. Power Act Reduction
- 10. CERA
- 11. Franchise Tax
- 12. Universal Charges
- 13. Other Charges
- 14. Refund

