

Power Sector Reforms - Implementation Highlights -

E-Power Mo Grand Xing Imperial Hotel, Iloilo City 9 October 2018



OUTLINE





INTRODUCTION

Pre-EPIRA



Vertically Integrated



Generation



Transmission



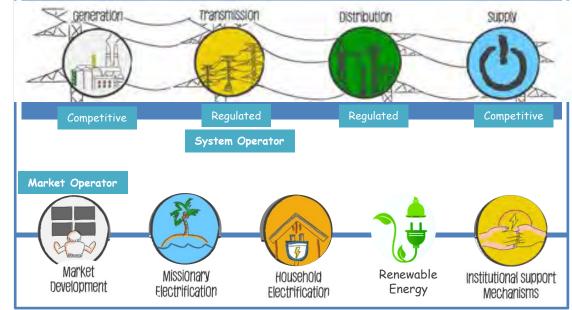
Accelerate
 electrification

- Quality, reliability, security & affordability of supply
- Transparent and reasonable prices of electricity
- Broaden ownership base of generation, transmission and distribution sectors
- Protect public interest
- Promote utilization of renewable energy
- Privatization of
 NPC
- Establish Independent Regulatory Body
- Demand Sidemanagement

EPIRA Regime



Horizontally Integrated





INTRODUCTION



Removal of subsidies

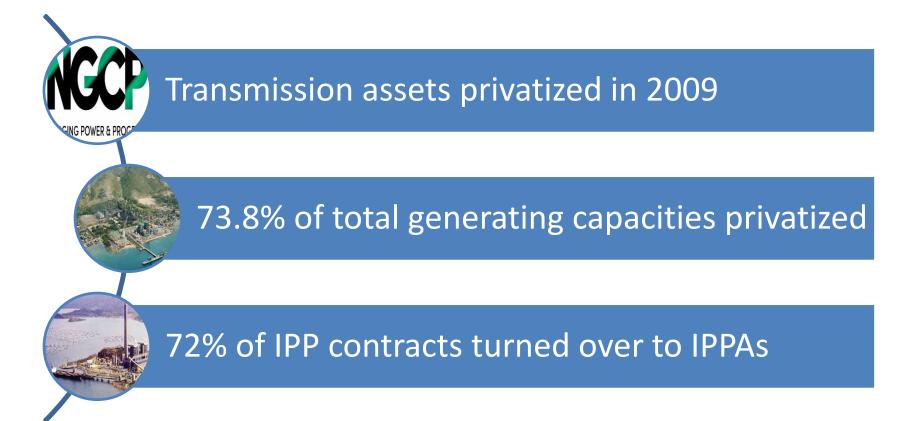








Status to date...





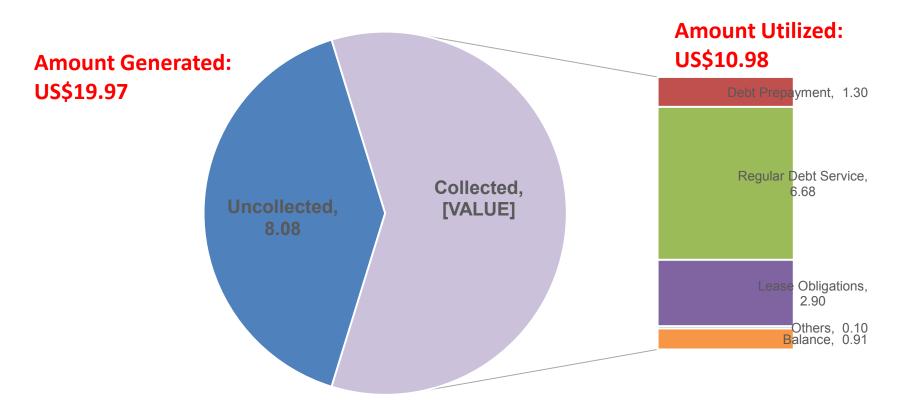
PRIVATIZED GENERATION ASSETS & IPP CONTRACTS

As of June 2018

	Total	Privatized Assets					
Assets	Capacity (MW)	Capacity (MW)	No. of Plants	Privatization Level			
Owned Generating Plants	6,233.53	4,601.43	31	73.82%			
IPP Contracts	4,906.27	3,415.00	6	73.53%			
Decommissioned Plants	-	-	5	-			
Total	11,139.80	8,016.43	42	71.96%			

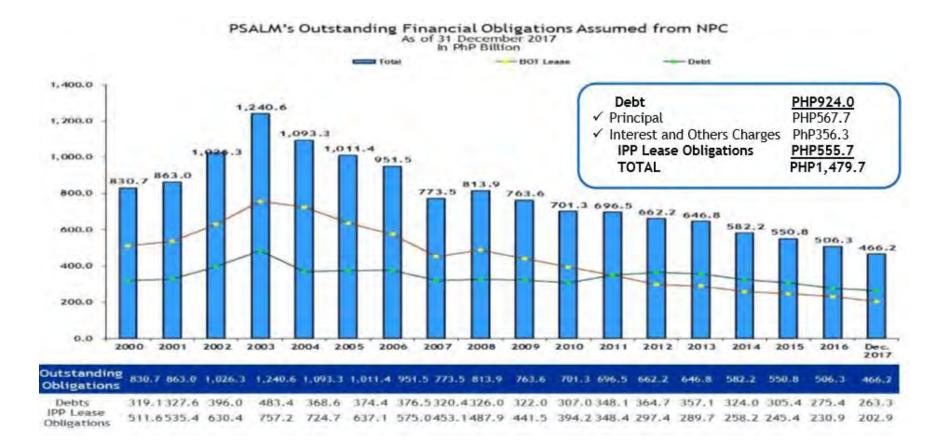
70% privatization is a prerequisite for RCOA

Proceeds and Utilization as of 1st Quarter 2018



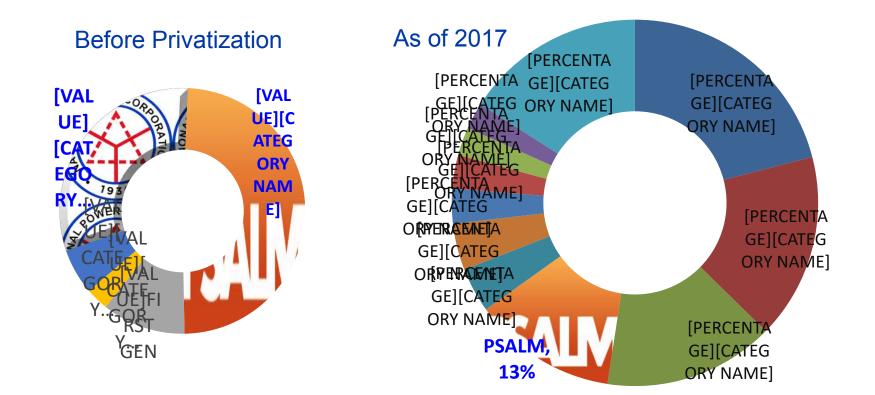


PSALM Total Debts and IPP Lease Obligations





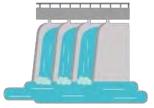
levelling the playing field...





Indicative Schedule of Generation Assets

March 2018



Asset Type/ Plant Name	Rated Capacity (MW)	Bid Date	Turnover Date			
Owned Generating Plants						
Malaya Thermal	650.00	20	18			
Agus 1 & 2 Hydro	260.00	Fan Dahahilitatiana yundan Otyaly				
Agus 4 & 5 Hydro	213.10	 For Rehabilitation; under Study Privatization is subject to consultation wit Congress and PSALM Board's policy direct 				
Agus 6 & 7 Hydro	254.00					
Pulangui Hydro	255.00					
Decommissioned P	Plants					
Bataan Thermal	175.00	Sale/disposal is subject to resolution of co cases involving the asset				
Bataan Gas Turbines	120.00					



Indicative Schedule for Appointment of IPPAs

March 2018

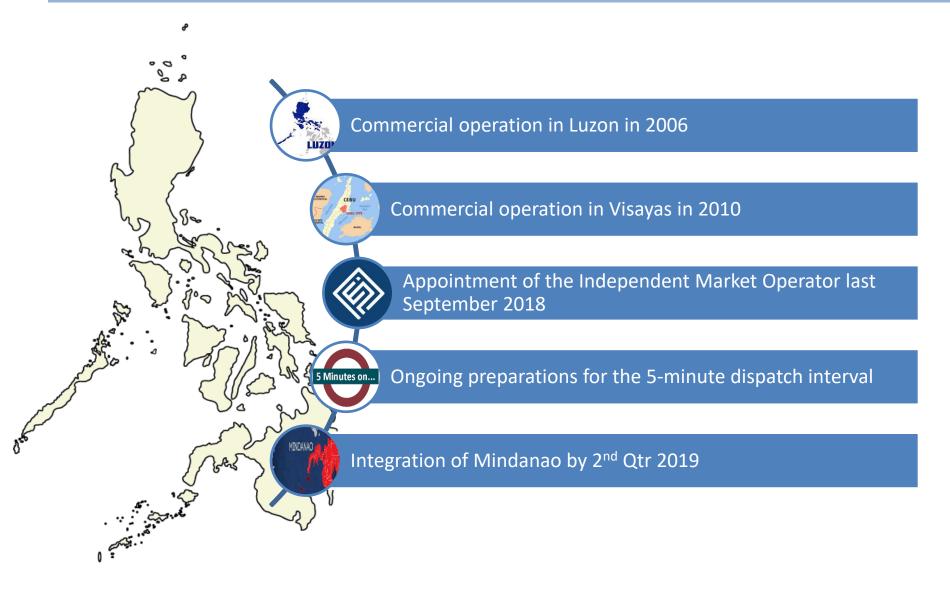


Grid	Plant Name	Contracted Capacity (MW)	Bid Date	Turnover Date
	Casecnan Multi-Purpose Hydro	140.00	2	019
Luzon	Benguet Mini Hydro ^{1/}	30.75		ct expired on uary 2018
Grid	Caliraya-Botocan-Kalayaan Hydro	728.00	2019	
	Sub-total Luzon	898.75		
	Unified Leyte - Bulk Energy	160.00*	Will operate	e until contract
Visayas	- Security Strip	40.00	expiratio	on in 2022
Grid	Sub-total Visayas	200.00		
	Mindanao Coal-Fired	200.00	2	018
	Sub-total Mindanao	250.00		
	GRAND TOTAL	1,298.75		

^{1/} IPP contract not subject to privatization/asset sale

* Based on the average daily declared capability by the Energy Development Corporation (EDC) of about 400 MW less the 200 MW sum of Strips of Energy and 40 MW security capacity of PSALM.







WESM Participants

	REGISTERED							
CATEGORY		DIRECT				INDIRECT		
	TOTAL	LUZ	VIS	LUZ/VIS	LUZ	VIS	LUZ/VIS	
Generation Companies	114	75	35	3	1	0	0	
Customers								
 Private distribution utilities & Local government utilities 	17	8	4	0	5	0	0	
Electric cooperatives	71	29	28	0	14	0	0	
Directly Connected Customers	58	8	6	1	33	8	2	
Wholesale aggregators	4	0	0	4	0	0	0	
Total Customer Trading Participants	150	45	38	5	52	8	2	
TOTAL PARTICIPANTS	264	120	73	8	53	8	2	

Source: PEMC, as of June 2018



WESM Design

Policy	Key developments
New WESM design	 From 1-hour to 5-minutes dispatch interval NMMS development Reserve Market
RE Law	 Preferential treatment of VRE and FIT-eligible biomass RE Market





INDEPENDENT MARKET OPERATOR



Elected 15 new board members including 11 sectoral representatives during PEMC's Annual General Membership

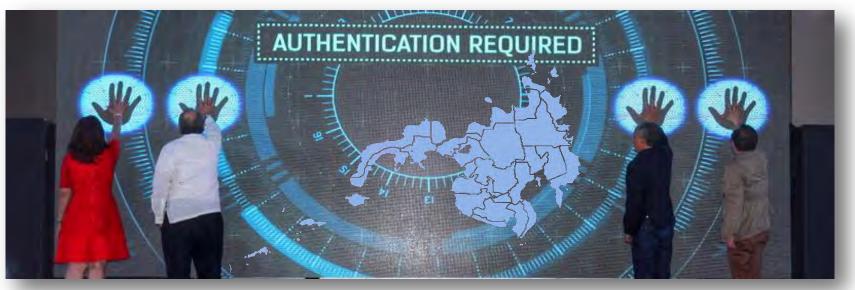


Independent Electricity Market Operator of the Philippines (IEMOP) assumed market operations functions last 26 September 2018

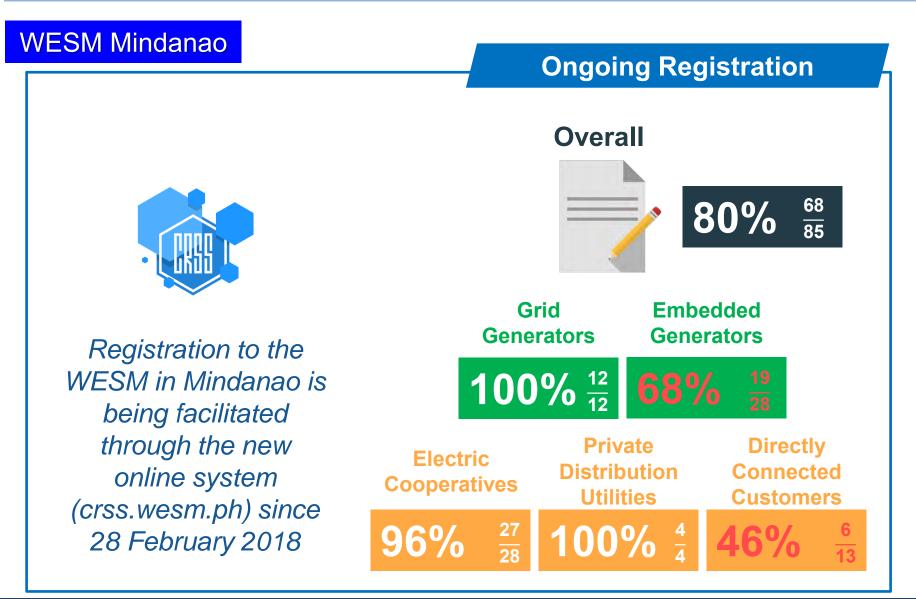


WESM Mindanao

1st Half of 2019







*As of 20 Sept 2018





RCOA Participants

			Expected*		R	**	
Membership Category		Jun 2013	Jun 2018	Increase	Jun 2013	Jun 2018	Increase
	D>1MW	892	1,247	40%	239	932	290%
Contestable	750kW≤D<1MW	0	510	-	0	172	-
Customers	Govnt Entity	-	87	-	-	-	-
	Total	892	1,844	107%	239	1104	362%
	RES	19	30	58%	15	30	100%
Suppliers	LRES	13	25	92%	3	13	333%
	Total	32	55	72%	18	43	139%
SOLR		9	44	389%	0	24	-
RMSP		28	46	61%	18	46	156%
Grand Total		961	1,989	107%	275	1,217	343%

Source: *ERC **PEMC;

D – Monthly Average Peak Demand



Supply Sector

<u>}</u>	Licensed/ Authorized by ERC	Registered under CRB
RES	30	30
LRES	25	13
SoLR	44	24

RES	- Retail Electricity Suppliers
LRES	- Local RES
Solr	- Supplier of Last Resort
CRB	- Central Registration Body

TEMPORARY RESTRAINING ORDER

 Licensing of Retail Electricity Suppliers



Policies for the Retail Electricity Suppliers

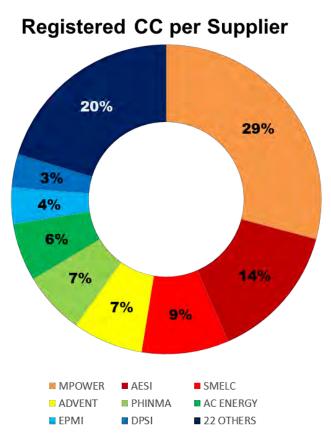
DC2017-12-0014

 Distribution Utilities as Local Retail Electricity Suppliers



Contestable Customers

As of June 2018







Policies for the Contestable Customers

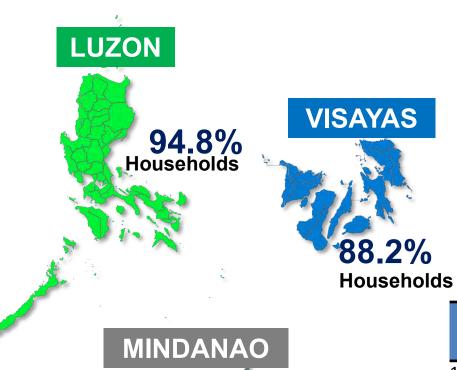
DC2017-12-0013

 Voluntary participation of 750kW and above Contestable Customers



TOTAL ELECTRIFICATION

Status as of 31 December 2017





 20.936 Million Households have electricity out of 23.716 Million Households in the country
 Based on DDP 2018-2027 by DUs

MINDANAO	Utilities (in Millions HH)	HH Population	Served HH	Unserved HH	Electrification Level (%)
	119 Electric Cooperatives	14.59	12.19	2.39	83.6%
Households	MERALCO Other	6.98	6.82	0.16	97.7%
	Distribution Utilities	2.14	1.92	0.22	89.07%
	Philippines	23.72	20.94	2.78	88.3%
Department of Energy					

Distributio



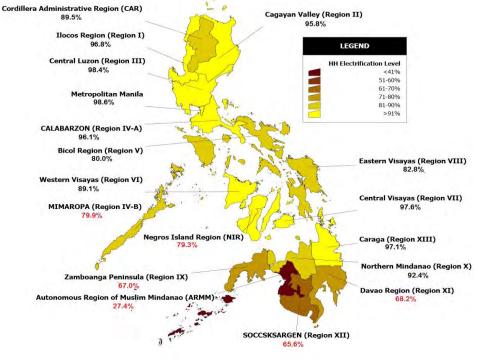
Empowering the Filipinos

TOTAL ELECTRIFICATION

Status as of 31 December 2017

Region	Total HH*	Served HH	Unserved HH	HH Elect'n Level %
CAR	409,100	365,999	43,101	89.5%
I	1,179,133	1,141,887	37,246	96.8%
II	795,800	762,314	33,486	95.8%
111	2,793,456	2,748,334	45,122	98.4%
IV-A	3,718,758	3,572,657	146,101	96.1%
IV-B	708,077	566,065	142,012	79.9%
NCR	3,233,605	3,189,357	44,248	98.6%
V	1,197,558	957,954	239,604	80.0%
Luzon	14,035,487	13,304,568	730,920	94.8%
VI	1,019,375	908,244	111,131	89.1%
VII	1,426,286	1,391,344	34,942	97.6%
VIII	1,003,543	831,235	172,308	82.8%
NIR	1,016,400	806,494	209,906	79.3%
Visayas	4,465,604	3,937,317	528,287	88.2%
ARMM	618,600	169,190	449,410	27.4%
CARAGA	633,700	615,515	18,185	97.1%
IX	754,300	505,444	248,856	67.0%
Х	1,004,722	927,878	76,844	92.4%
XI	1,177,596	803,588	374,008	68.2%
XII	1,026,019	672,999	353,020	65.6%
Mindanao	5,214,937	3,694,614	1,520,323	70.8%
Philippines	23,716,028	20,936,499	2,779,530	88.3%

Note: Red texts indicate electrification level below 80%



Source: DOE (Initial Estimate)



SUPPORT MECHANISM

Universal Charge for Missionary Electrification



Consumer Education

CSP, Lower SLC, KPI, Performance Audit

Department of Energy Empowering the Filipinos









Rate reduction thru related business



ER 1-94

Lifeline Rate

Amend Implementing Rules and Regulations

- Align DOE, ERC and AAs mandates for ensuring quality, reliability and security of the supply of electric power
- Rationalization of subsidies (UCME, lifeline rate)
- Enhance provision on competition and cross-ownership provision
- Clarification and strengthening of unbundling provisions
- Timely regulation
- Transmission service expansion to missionary areas
- Emphasize electric power industry participants' compliance to performance standards pursuant to PDC, PGC, WESM Rules and other relevant DOE and ERC regulations
- Rate reduction thru related business



Thank You!



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