

UPDATES ON MINDANAO POWER SITUATION

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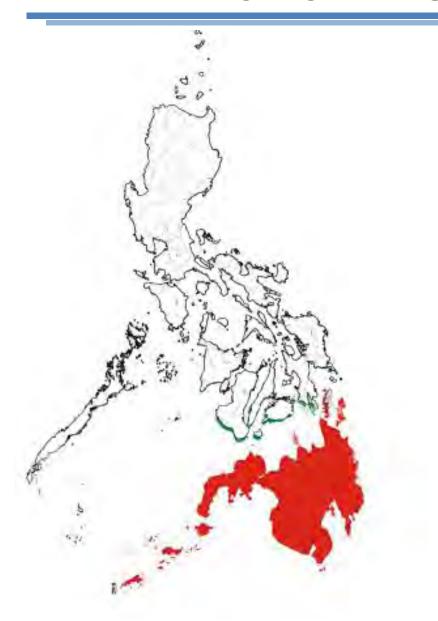
Assistant Secretary, DOE

3 October 2017
Davao City

PRESENTATION OUTLINE

- I. MINDANAO POWER SITUATION
- II. WESM MINDANAO UPDATES
- III. MARAWI POWER UPDATES

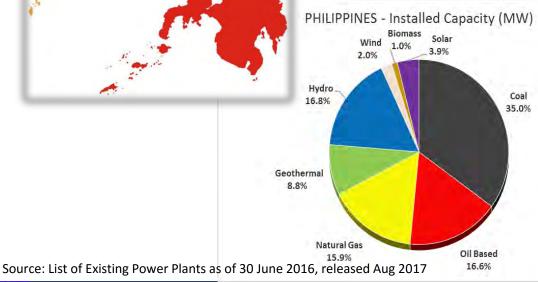
MINDANAO POWER SITUATION

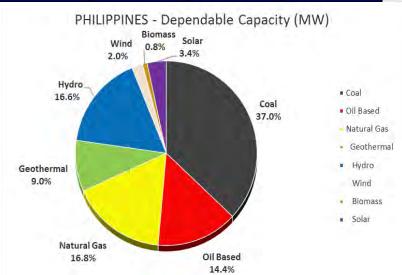


1st HALF 2017 PHILIPPINES CAPACITY MIX



	PHILIPPINES				
FUEL TYPE	Capacity (MW)		Percent Share (%)		
	Installed	Dependable	Installed	Dependable	
Coal	7,569	7,230	35.0	37.0	
Oil Based	3,584	2,816	16.6	14.4	
Natural Gas	3,431	3,291	15.9	16.8	
Renewable Energy	7,038	6,199	32.5	31.7	
Geothermal	1,906	1,752	8.8	9.0	
Hydro	3,637	3,241	16.8	16.6	
Wind	427	383	2.0	2.0	
Biomass	224	160	1.0	0.8	
Solar	843	663	3.9	3.4	
TOTAL	21,621	19,536	100.0	100.0	

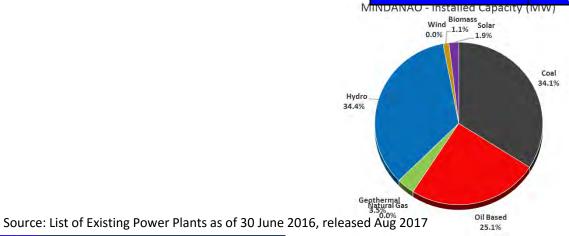


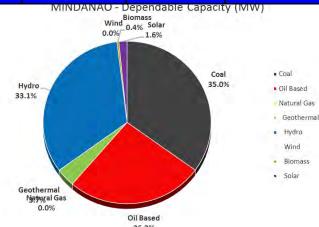


1st HALF 2017 MINDANAO CAPACITY MIX



	MINDANAO				
FUEL TYPE	Capacity (MW)		Percent Share (%)		
	Installed	Dependable	Installed	Dependable	
Coal	1,070	950	34.1	35.0	
Oil Based	788	715	25.1	26.3	
Diesel	788	715	25.1	26.3	
Natural Gas	0	0	0.0	0.0	
Renewable Energy	1,283	1,051	40.8	38.7	
Geothermal	108	100	3.5	3.7	
Hydro	1,080	899	34.4	33.1	
Wind	0	0	0.0	0.0	
Biomass	36	10	1.1	0.4	
Solar	59	43	1.9	1.6	
TOTAL	3,141	2,716	100.0	100.0	





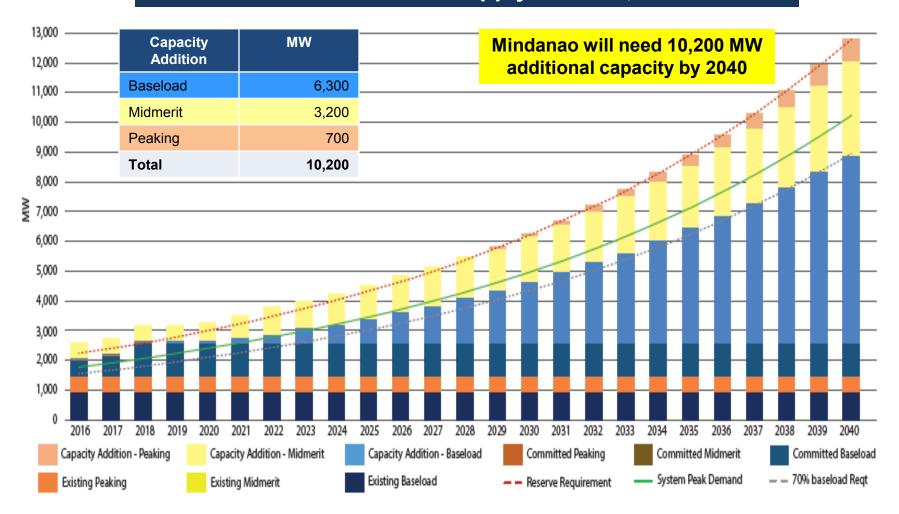
MINDANAO POWER SITUATION as of 13 September 2017

- Total Installed Capacity: 3,141 MW
- Average Available Capacity for 2017: 2,097 MW*
- Highest Peak Demand for 2016: 1,653 MW (1 Dec 2016)
- Highest Peak Demand for 2017: 1,707 MW (8 September 2017)

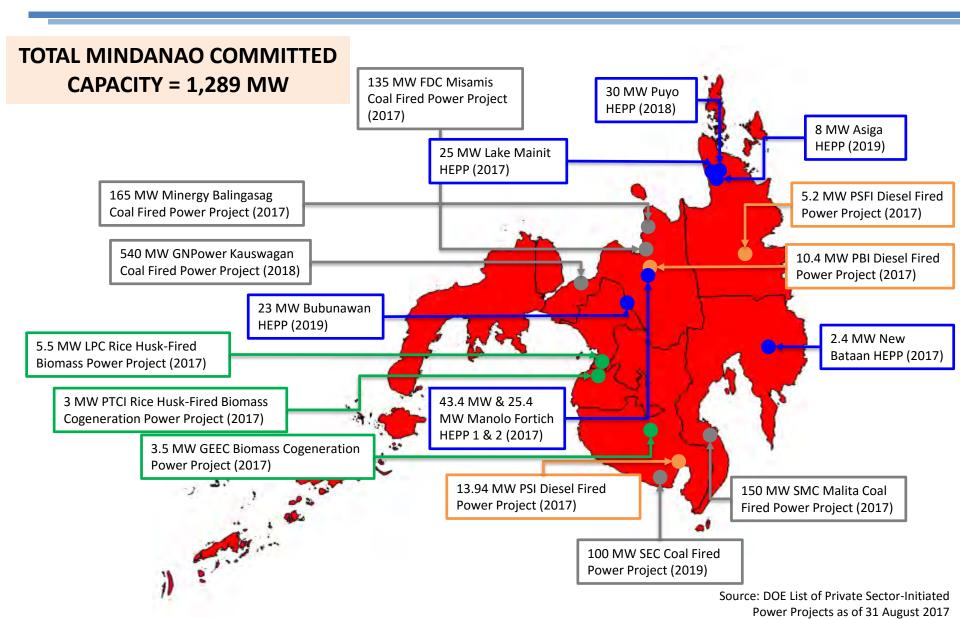


MINDANAO POWER OUTLOOK 2016-2040

Mindanao Demand and Supply Outlook, 2016-2040

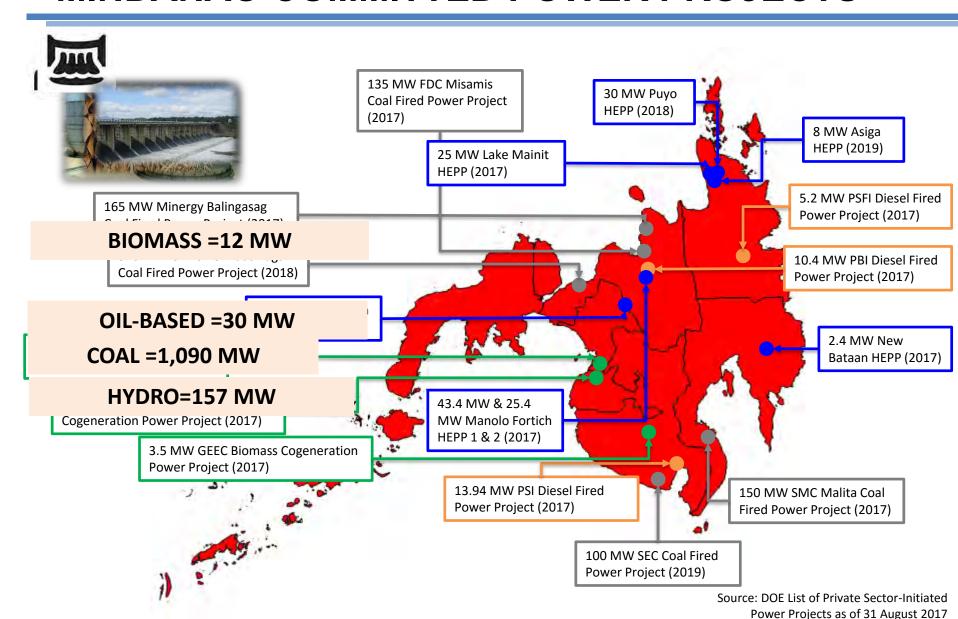


MINDANAO COMMITTED POWER PROJECTS



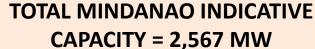


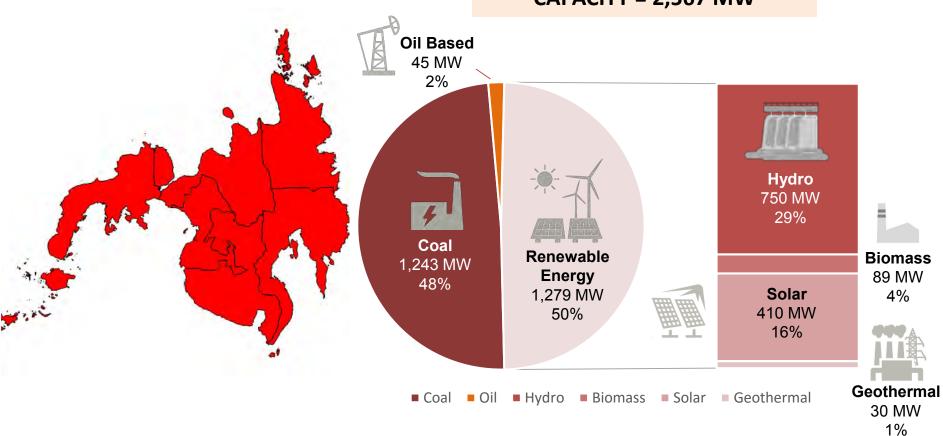
MINDANAO COMMITTED POWER PROJECTS





MINDANAO INDICATIVE POWER PROJECTS





Source: DOE List of Private Sector-Initiated Power Projects as of 31 August 2017

WESM MINDANAO UPDATES





WHOLESALE ELECTRICITY SPOT MARKET (WESM) IN MINDANAO

- In order to address the excess supply generation in Mindanao, the DOE came up with sustainable solutions through establishing a venue for efficient scheduling, dispatch and settlement of energy withdrawal and injections in the Mindanao Grid;
- ➤ The DOE had conducted series of public consultations, focus group discussions, and workshops in several areas of Mindanao in preparation for the launch of WESM in Mindanao.
- ▶ Department Circular No. DC2017-05-0009
 DECLARING THE LAUNCH OF THE WHOLESALE ELECTRICITY
 SPOT MARKET (WESM) IN MINDANAO AND PROVIDING FOR
 TRANSITION GUIDELINES

Promulgated on 04 May 2017

Published in two newspapers of general circulation on 23 May 2017

Became effective on 7 June 2017

WHOLESALE ELECTRICITY SPOT MARKET (WESM) IN MINDANAO

- ➤ Salient features of the Department Circular No. DC2017-05-0009:
 - ✓ <u>Launching of WESM in Mindanao</u> on 26 June 2017 which commenced the <u>Trial Operations Program (TOP)</u> to be participated by the Market Operator, System Operator and Trading Participants
 - ✓ Upon effectivity of the Department Circular:





Interim Mindanao
Dispatch Protocol
shall apply until
Commercial
Operations is
declared by the
DOF



Interim
Mindanao
Electricity
Market
(IMEM) shall
be
terminated.

- Commercial operations will be declared upon compliance of the criteria for commencement of full commercial operations
- Responsibilities of the following were defined:





- As System Operator;
- · transmission Network Service Provider; and
- WESM Metering Services Provider



Mindanao WESM Participants



INTERIM MINDANAO DISPATCH PROTOCOL (IMDP)

Prior to the Commercial Operations Date of the WESM in Mindanao, the NGCP and the WESM Participants shall implement the Interim Mindanao Dispatch Protocol pursuant to Section 9 of DC2017-05-0009;

Provide detailed information and timeline on the Generation Day-Ahead Nomination and Scheduling and Implementation Process;

Determine the Dispatch Order of Priority of Generating units per type of technology;

Formulate the Generation to Maintain Matrix Table (GMMT);

Implement Generation Schedule and Dispatch Instructions thru dispatching of quantities covered by bilateral contracts, except during Grid emergency as provided for in the Philippine Grid Code (PGC);

Implement monthly reconciliation on Nominations, Actual Schedules, Metered Quantities, System Losses and Imbalances as provided for in the guidelines for consolidating and transmitting to the Generators (GENs) and Load End Customers (CUSTOMERs) their respective metering data.

MARAWI POWER UPDATES

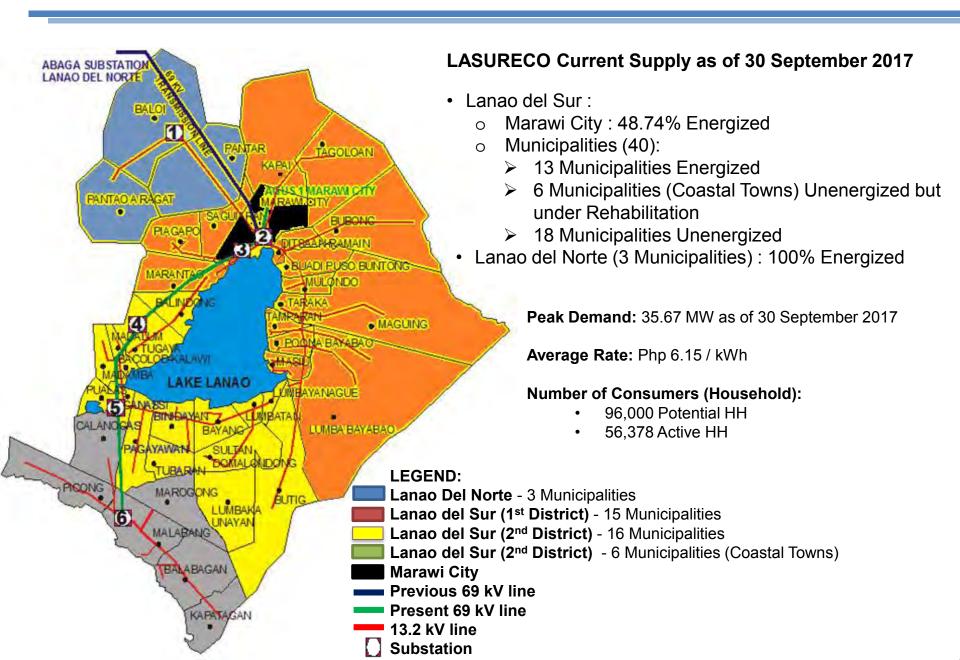


BACKGROUND

Inter-Agency Task Force on Securing Energy Facilities (IATFSEF) convened a meeting on 24 May 2017 together with the DOE, NGCP, TRANSCO, NEA, NPC, AFP, PNP and LASURECO to discuss the action plans on how to address the situation in Lanao del Sur.

Through the coordination and support between the members of the IATFSEF, the impact on the Power Industry in Mindanao was minimized and continuous delivery of power was ensured despite the on-going siege in the Lanao del Sur area.

LASURECO DISTRIBUTION POWER SYSTEM



Task Force Duterte Lanao Sur Power

- Energization Activities related to the Siege
 - Survey and Evaluation of 13.2 KV Distribution Line in Marawi City and Energization of CAMPS (MARINES, AFP, PNP) in Marawi City on 24 September 2017
 - Energization of Provincial Capitol, Campo Ranao (Brigade), Amai Pakpak Medical Hospital (APMC) and City Hall
 - Restoration of Power in Mindanao State University Marawi City by Connecting from LASURECO
 - > Energization of Municipality of Kapai and Tagoloan II, Lanao Del Sur
 - Installation of 40 Unit of Street Lights from Brgy. Marawi to Matampay, and from Brgy. Matampay to Brgy. Basak Malutlut along National Highway





Survey and Evaluation of 13.2 KV Distribution Line in Marawi City and Energization of CAMPS (MARINES, AFP, PNP)



Installation of Street Lights



Energization of Government Offices and Hospital

Task Force Duterte Lanao Sur Power

- Other Energization Activities
 - ➤ Ground Breaking Ceremony for the Rehabilitation of (6) Six Municipalities in Coastal Town at Mun. Kapatagan, Lanao Del Sur on 28 September 2017
 - ➤ Consultative Meeting with the Local Government Unit of (6) Six Municipalities in Coastal Town
 - > Replacement of Rotten Poles in Malabang, Lanao Del Sur



Ground Breaking Ceremony for the Rehab of 6 Coastal Municipalities



Consultative Meeting with the LGU





Replacement of Rotten Poles in Malabang, Lanao Del Sur

TASK FORCE BANGON MARAWI

Activities for Task Force Bangon Marawi

- ➤ Site Inspection of Temporary Shelter at Brgy. Sagonsongan, Marawi City
- ➤ Installation of Distribution Transformer for the Energization of Evacuation Centers and Water System
- ➤ Installation of Wiring (Lighting and Convenience Outlet) for DND, DPWH and DSWD Satelite Offices at Sagonsongan, Marawi City
- ➤ Construction of Distribution Line for the Energization of Tent City (Temporary Shelter) at Brgy. Sagonsongan, Marawi City completed on 20 July 2017

TASK FORCE BANGON MARAWI





Erection of Poles by LASURECO Technical Staff at the Tent City



Wiring (Lighting and Convenient Outlet) for DND, DSWD and DPWH Sub offices



Energization of Evacuation Centers and Water System

TASK FORCE BANGON MARAWI





Erection of Poles by LASURECO Technical Staff at the Tent City



Wiring (Lighting and Convenient Outlet) for DND, DSWD and DPWH Sub offices



Energization of Evacuation Centers and Water System

Philippine Power Sector Roadmap Towards



Quality, Reliable,
Affordable and
Secured Supply

Transparent and Electricity
Fair Playing Access for
Field in the All Filipinos
Power Industry



Thank You!



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