



# Mindanao Power Situation and Outlook

*Assistant Secretary Redentor E. Delola*

Energy Investment Briefing  
16 August 2018  
N-Hotel, Cagayan de Oro City



# Presentation Outline

---



2017 Mindanao Power Grid Snapshot



2016-2040 Demand and Supply Outlook



2018-2020 Demand and Supply Outlook



A circular icon containing a line graph with an orange line showing an upward trend on a grid background.

## 2017 Mindanao Power Grid Snapshot

A circular icon containing a bar chart with a yellow line graph overlaid, representing demand and supply outlook.

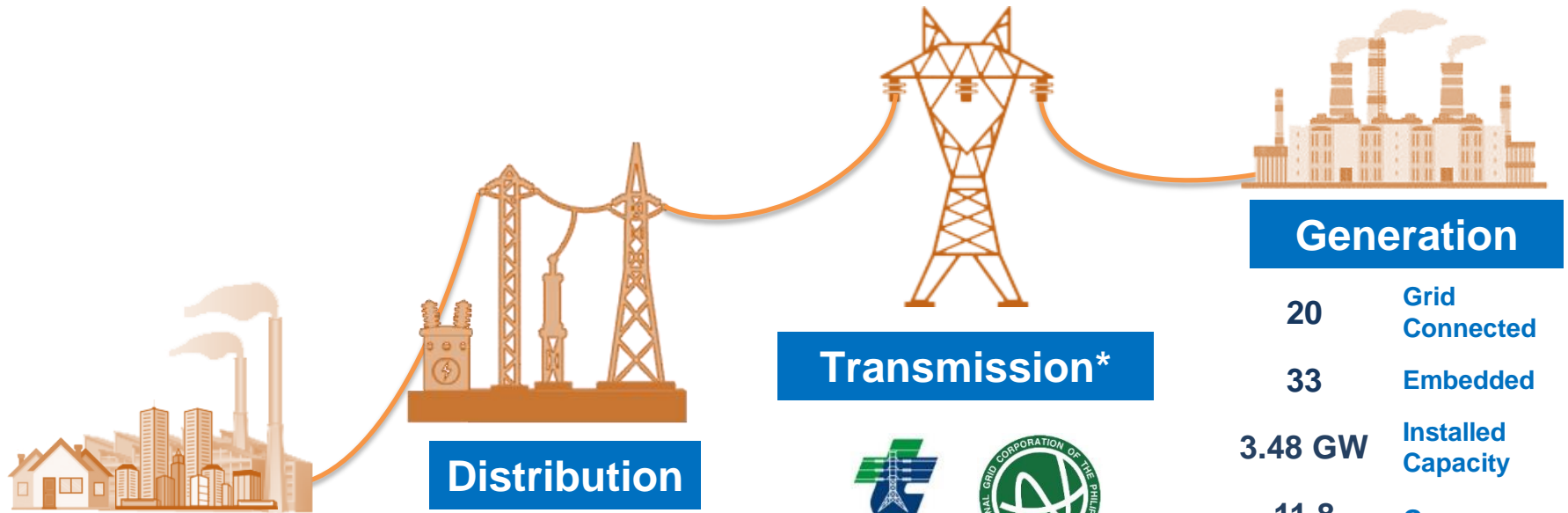
## 2016-2040 Demand and Supply Outlook

A circular icon containing a purple silhouette of a power plant with a lightning bolt symbol, representing demand and supply outlook.

## 2018-2020 Demand and Supply Outlook

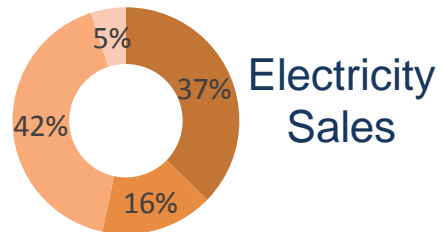


# Mindanao Grid Power System\*



## Load

9.5 TWh



- Residential
- Commercial
- Industrial
- Others

## Distribution

- 4 **PIOUs**
- 34 **ECs**
- 1 **LGUOU**

- PIOUs** - Private-Investor Owned Utilities
- ECs** - Electric Cooperatives
- MPC** - Multi-purpose Cooperative

## Transmission\*

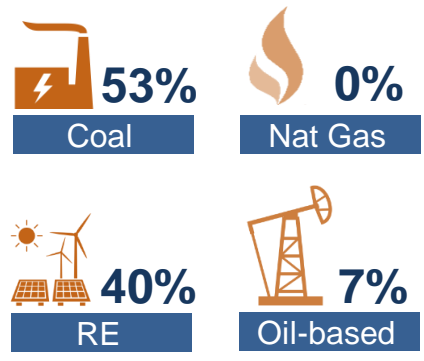


- 3,727 MVA
- 5,832 ckt-km

**Peak Demand: 1.76 GW**

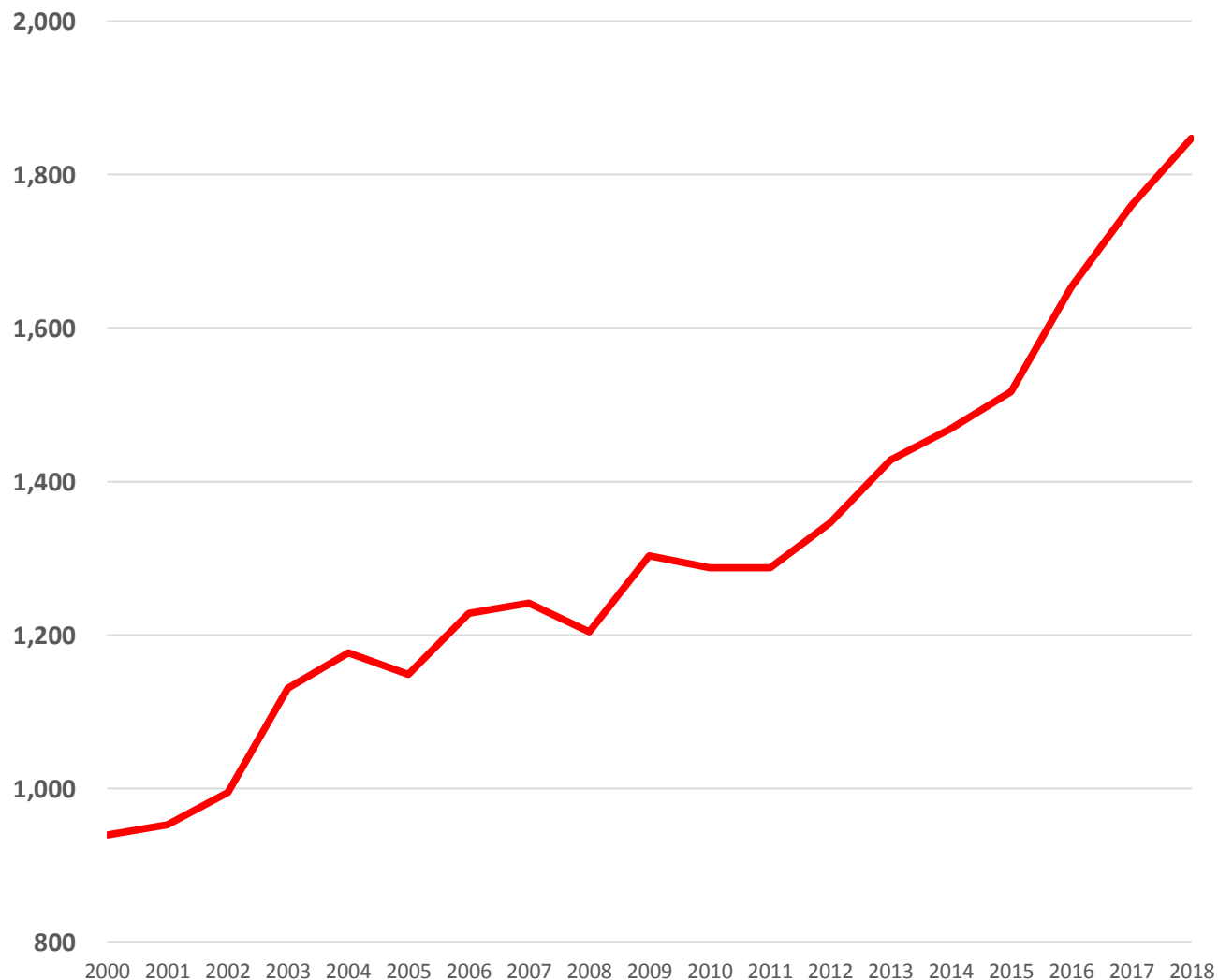
## Generation

- 20 **Grid Connected**
- 33 **Embedded**
- 3.48 GW **Installed Capacity**
- 11.8 **TWh Gross Generation**



\*2017 DOE Power Statistics  
 \*\*\* Based on 2014-2015 TDP  
 Sources of Data: DOE; NGCP

# Historical System Demand



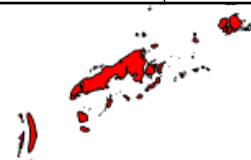
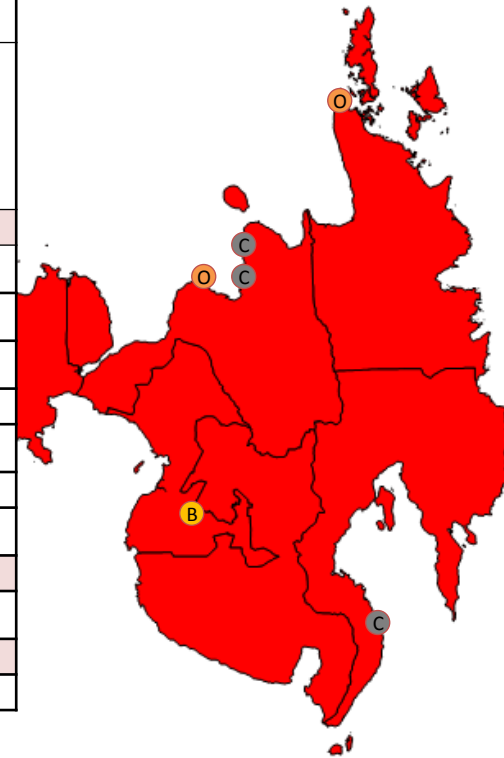
Year	Mindanao	% GR
2000	939	
2001	953	1.5
2002	995	4.4
2003	1,131	13.7
2004	1,177	4.1
2005	1,149	(2.4)
2006	1,228	6.9
2007	1,241	1.1
2008	1,204	(3.0)
2009	1,303	8.3
2010	1,288	(1.2)
2011	1,288	0.0
2012	1,346	4.5
2013	1,428	6.1
2014	1,469	2.9
2015	1,517	3.3
2016	1,653	9.0
2017	1,760	6.5
2018*	1,847	4.9

\* 2018 Actual Peak Demand to Date as of 23 May 2018



# Mindanao Newly Operational Power Plants (Jan 2017 to June 2018)

POWER PLANT	CAPACITY, MW		OWNER/ OPERATOR	COD
FACILITY NAME	INS	DEP		
<b>MINDANAO</b>	<b>543</b>	<b>493</b>		
<b>COAL</b>	<b>450</b>	<b>405</b>		
SMC Malita U2	150	135	SMC Consolidated Power Corporation	Feb 2018
FDC MISAMIS U3	135	120	FDC Utilities, Inc.	May 2017
MPC Balingasag U1	55	50	Minergy Power Corporation	Sep 2017
MPC Balingasag U2	55	50		
MPC Balingasag U3	55	50		
<b>DIESEL</b>	<b>74.7</b>	<b>72</b>		
NAC DPP	10.9	8.2	Nickel Asia Corporation (NAC)	Dec 2017
PACERM-1	10.5	10.5	PACERM-1 Energy Corporation	2017
ZAMCELCO DPP	16	16	ZAMCELCO	2017
PBI	10.4	10.4	Peak Power Bukidnon	Mar 2018
PSFI 2	5.2	5.2	Peak Power San Francisco	Jan 2018
PSI 2	13.9	13.9	Peak Power Soccsargen	Sep 2017
KEGI Jimenez	7.8	7.8	King Energy Generation Inc.	Oct 2017
<b>BIOMASS</b>	<b>15</b>	<b>13</b>		
LAMSAN Biomass	15	13	Lamsan Power Corp	May 2018
<b>HYDRO</b>	<b>3</b>	<b>3</b>		
New Bataan	3	3	Euro Hydro Power	Mar 2018



\*Excluding Battery Energy Storage



A circular icon containing a line graph with an orange line showing an upward trend on a grid.

## 2017 Mindanao Power Grid Snapshot

A circular icon containing a bar chart with a yellow line graph overlaid, representing demand and supply outlook.

## 2016-2040 Demand and Supply Outlook

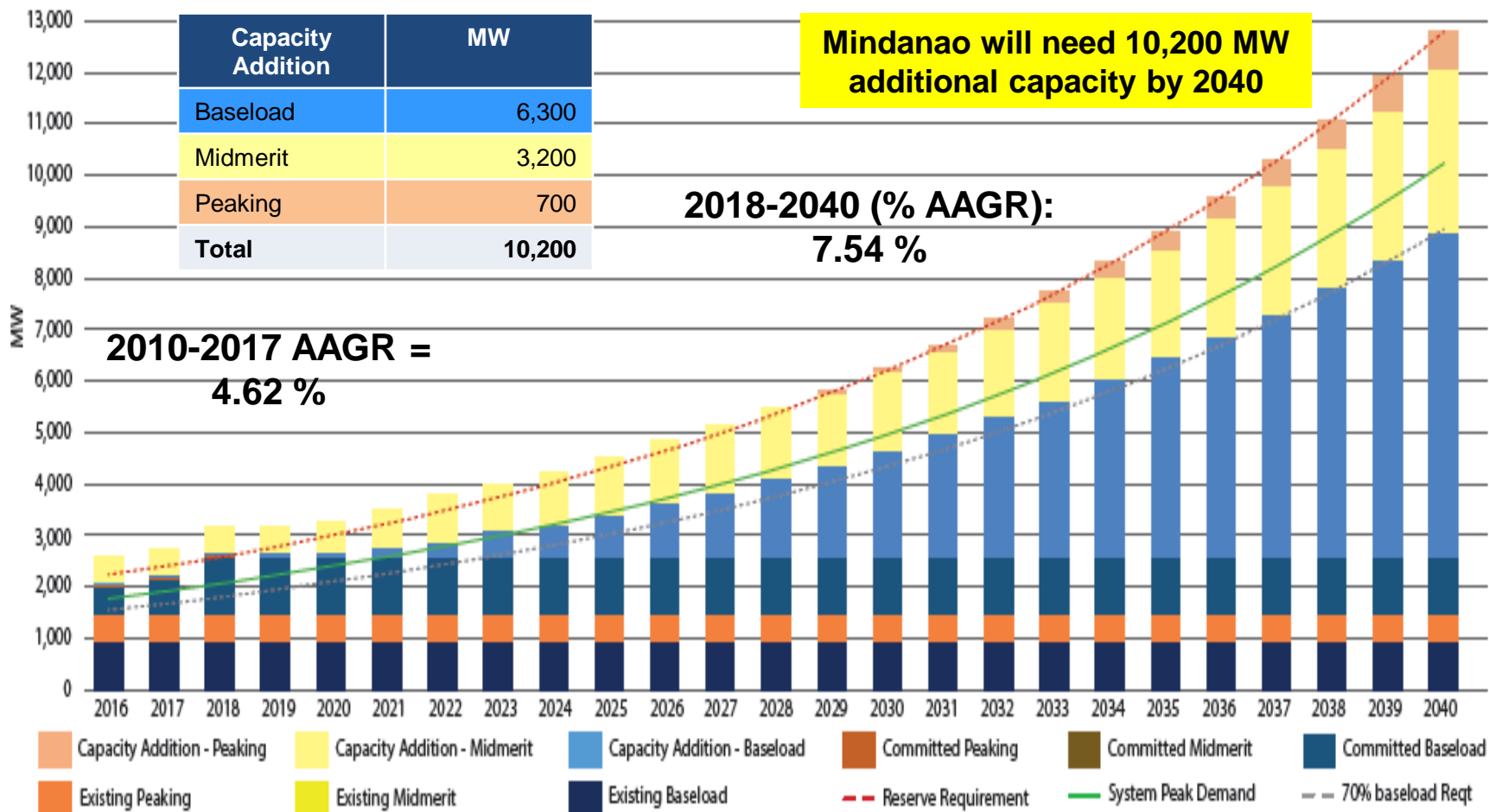
A circular icon containing a purple silhouette of a power plant with a lightning bolt symbol.

## 2018-2020 Demand and Supply Outlook



# Power Development Plan to 2040

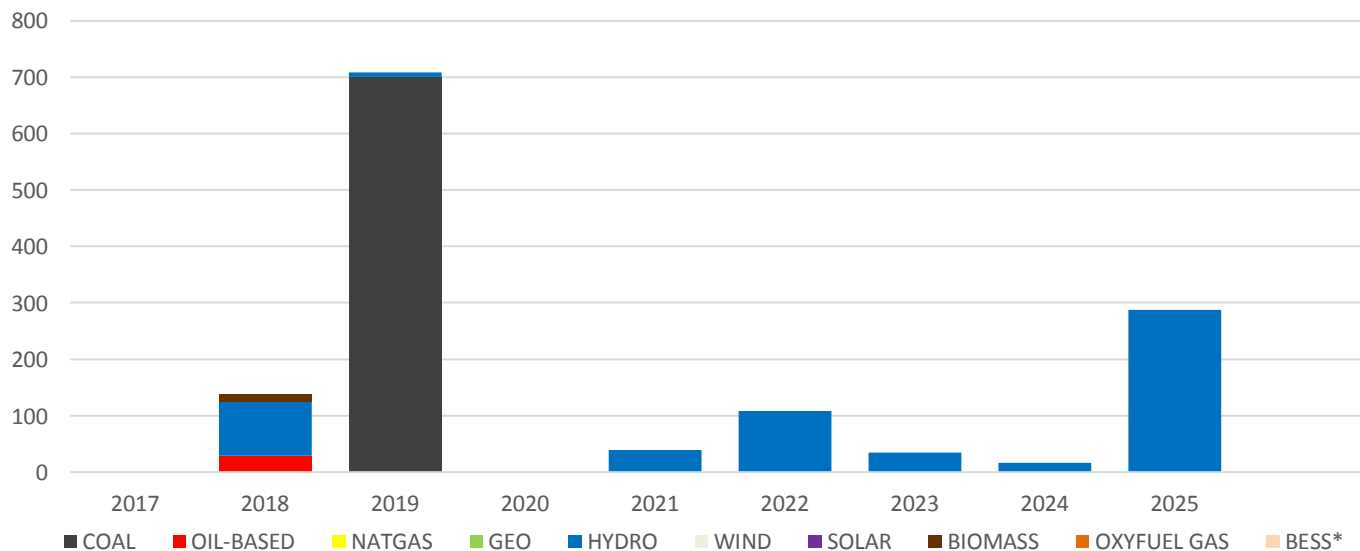
## Mindanao Demand and Supply Outlook, 2016-2040





# Mindanao Committed Power Projects

Plant Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	TBD	TOTAL by Type
COAL	0	0	700	0	0	0	0	0	0	0	700.00
OIL-BASED	0	29.54	0	0	0	0	0	0	0	0	29.54
NATGAS	0	0	0	0	0	0	0	0	0	0	0.00
GEO	0	0	0	0	0	0	0	0	0	0	0.00
HYDRO	0	96.2	8	0	39.2	108.7	34.8	16.85	287.14	0	590.89
WIND	0	0	0	0	0	0	0	0	0	0	0.00
SOLAR	0	0	0	0	0	0	0	0	0	0	0.00
BIOMASS	0	12	0	0	0	0	0	0	0	0	12.00
OXYFUEL GAS	0	0	0	0	0	0	0	0	0	0	0.00
BESS*	0	0	0	0	0	0	0	0	0	0	0.00
<b>TOTAL by year</b>	<b>0.00</b>	<b>137.74</b>	<b>708.00</b>	<b>0.00</b>	<b>39.20</b>	<b>108.70</b>	<b>34.80</b>	<b>16.85</b>	<b>287.14</b>	<b>0.00</b>	<b>1,332.43</b>



Note: TBD – To be Determined



# Mindanao Committed Power Projects

**TOTAL MINDANAO COMMITTED CAPACITY = 1,332 MW**

Aggregated 591 MW from 36 Hydro Projects

600 MW GNPowr Kauswagan Coal Fired Power Project (2019)\*\*

5.2 MW PSFI Diesel Fired Power Project (2018)\*

10.4 MW PBI Diesel Fired Power Project (2018)\*

5.5 MW LPC Rice Husk-Fired Biomass Power Project (2018)

3 MW PTCI Rice Husk-Fired Biomass Cogeneration Power Project (2018)

3.5 MW GEEC Biomass Cogeneration Power Project (2018)

13.94 MW PSI Diesel Fired Power Project (2018)\*

100 MW SEC Coal Fired Power Project (2019)

**Legend:**

Coal	Geothermal	Biomass
Oil-based	Hydro	Wind
NatGas	Solar	BESS

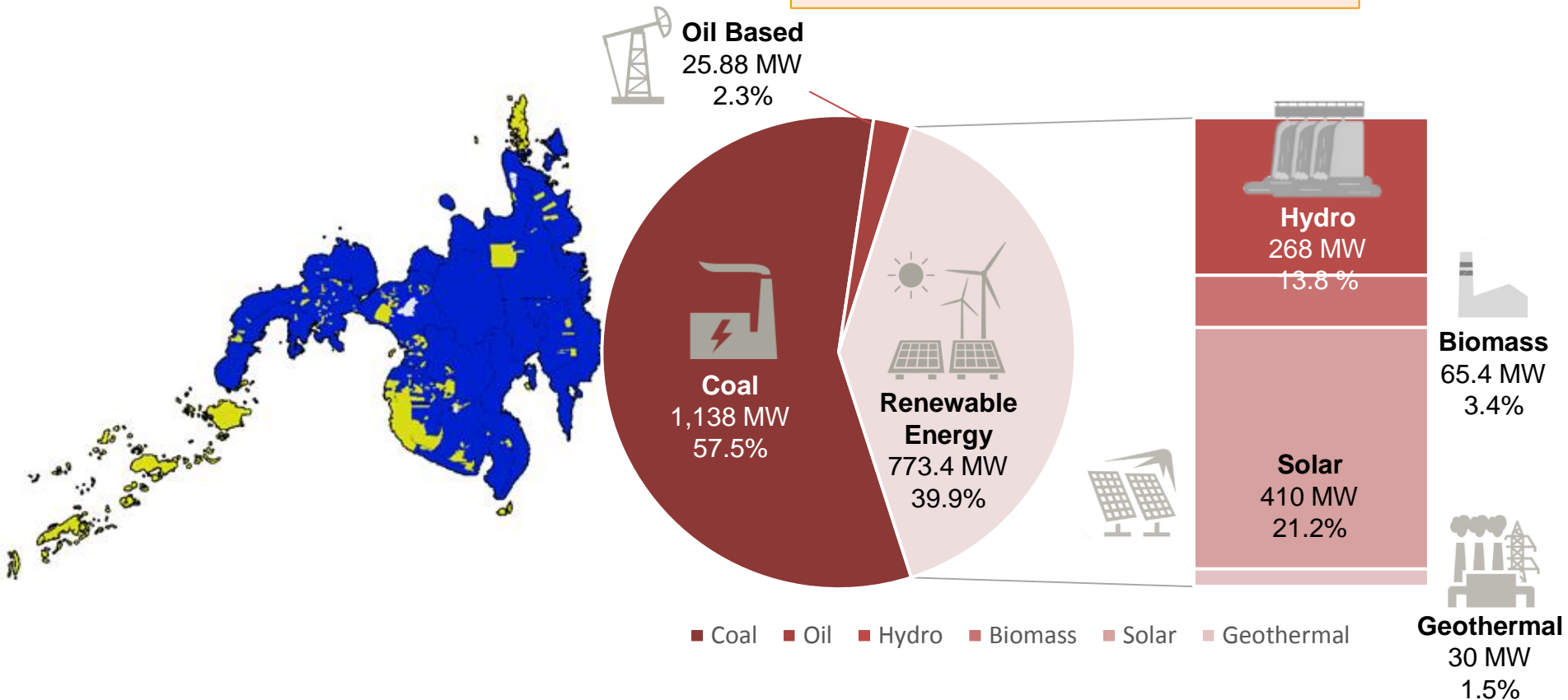
\*Commercial Operation

\*\*Actual Project Status



# Mindanao Indicative Power Projects

**TOTAL MINDANAO INDICATIVE  
CAPACITY = 1,937.28 MW**





## 2017 Mindanao Power Grid Snapshot



## 2016-2040 Demand and Supply Outlook



## 2018-2020 Demand and Supply Outlook



# Mindanao 2018-2020 Short Term Power Outlook

---

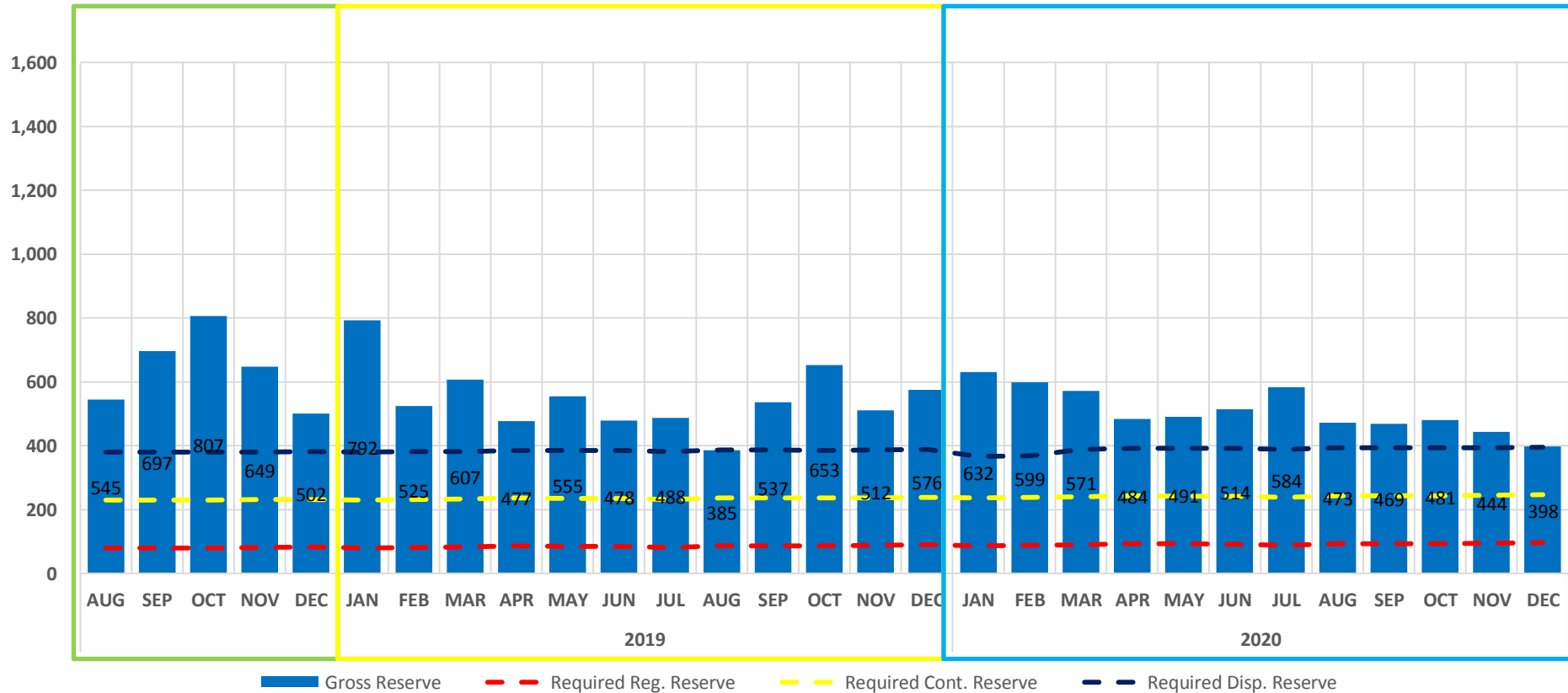
- **Assumptions**

- DOE Peak Demand forecast\*
  - 2018 – 2,064 MW
  - 2019 – 2,229 MW
  - 2020 – 2,407 MW
- Committed Power projects based on **actual project status**
- Preventive Maintenance Schedule (PMS) considered based on NGCP Grid Operating Program (GOP) 2018-2020



# Mindanao 2018-2020 Power Outlook

- Reserve Profile w/o Committed Power Projects



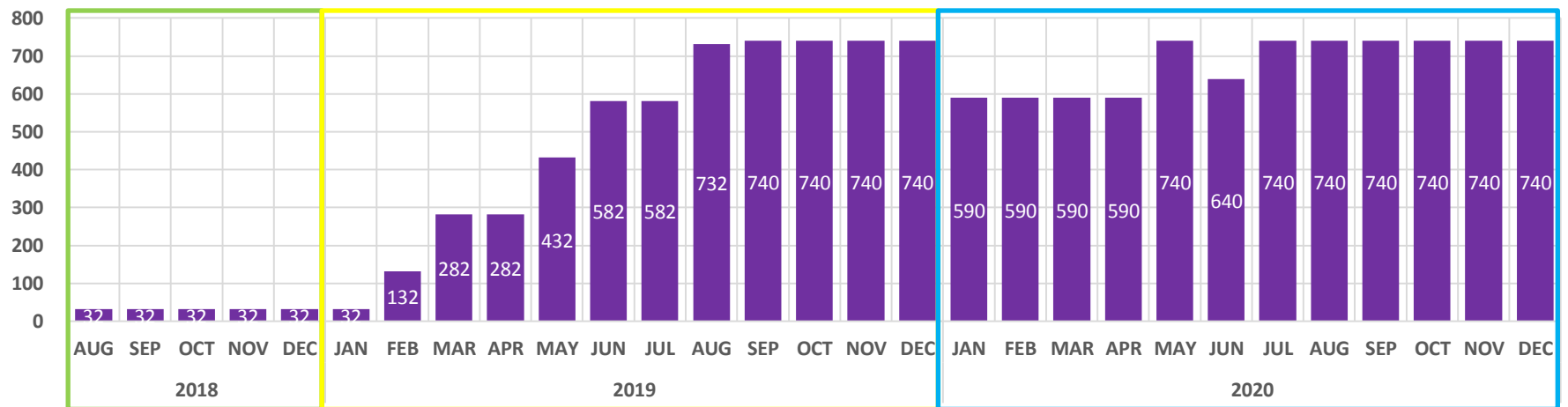
2018-2020 Monthly	2018					2019												2020											
	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Total Available Capacity	2,545	2,700	2,800	2,673	2,566	2,805	2,568	2,675	2,627	2,698	2,600	2,545	2,545	2,700	2,805	2,698	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805
System Demand	2,000	2,003	1,992	2,024	2,064	2,012	2,043	2,068	2,149	2,143	2,121	2,057	2,159	2,163	2,152	2,186	2,229	2,173	2,206	2,233	2,321	2,314	2,291	2,221	2,332	2,336	2,324	2,361	2,407
Gross Reserve	545	697	807	649	502	792	525	607	477	555	478	488	385	537	653	512	576	632	599	571	484	491	514	584	473	469	481	444	398
Required Reg. Reserve	80	80	80	81	83	80	82	83	86	86	85	82	86	87	86	87	89	87	88	89	93	93	92	89	93	93	93	94	96
Required Cont. Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Required Disp. Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	130	130	150	150	150	150	150	150	150	150	150	150



# Mindanao 2018-2020 Power Outlook

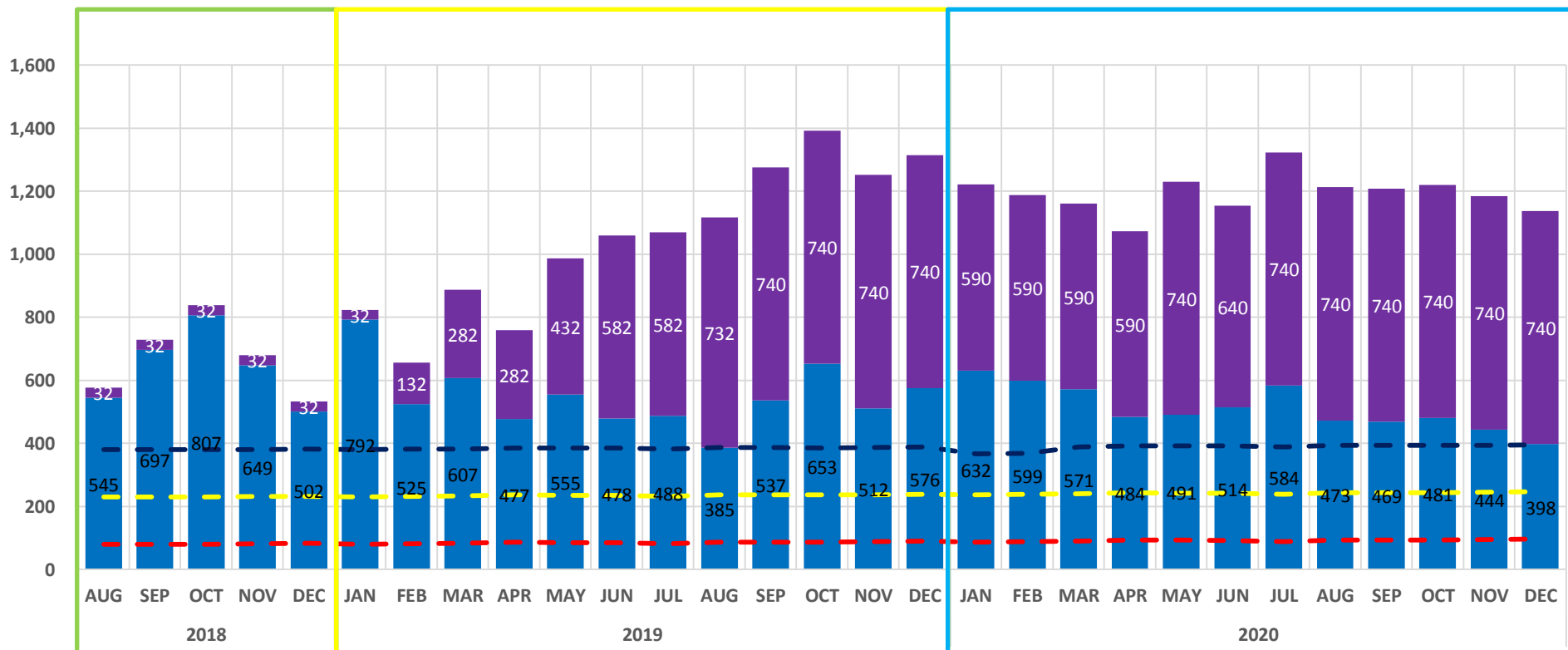
- Committed Power Projects

Power Project	Installed Cap (MW)	Target COD
MANOLO FORTICH 2 HYDRO	25.4	Aug-18
LAKE MAINIT HYDRO	25.0	Aug-18
PHILTRADE BIOMASS	3.0	Aug-18
GEEC BIOMASS	3.5	Aug-18
SEC 2 COAL	100.0	Jan-19
GNPK 1 COAL	150.0	Mar-19
GNPK 2 COAL	150.0	May-19
GNPK 3 COAL	150.0	Jun-19
GNPK 4 COAL	150.0	Aug-19
ASIGA GREEN ENERGY HYDRO	8.0	Aug-19
<b>Total</b>	<b>764.9</b>	



# Mindanao 2018-2020 Power Outlook

## • Reserve Profile with Committed Power Projects



■ Gross Reserve   
 ■ Committed Capacity   
 - - - Required Reg. Reserve   
 - - - Required Cont. Reserve   
 - - - Required Disp. Reserve

2018-2020 Monthly	2018					2019												2020											
	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Total Available Capacity	2,545	2,700	2,800	2,673	2,566	2,805	2,568	2,675	2,627	2,698	2,600	2,545	2,545	2,700	2,805	2,698	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805	2,805
System Demand	2,000	2,003	1,992	2,024	2,064	2,012	2,043	2,068	2,149	2,143	2,121	2,057	2,159	2,163	2,152	2,186	2,229	2,173	2,206	2,233	2,321	2,314	2,291	2,221	2,332	2,336	2,324	2,361	2,407
Gross Reserve	545	697	807	649	502	792	525	607	477	555	478	488	385	537	653	512	576	632	599	571	484	491	514	584	473	469	481	444	398
Committed Capacity	32	32	32	32	32	32	132	282	282	432	582	582	732	740	740	740	740	590	590	590	590	740	640	740	740	740	740	740	
Required Reg. Reserve	80	80	80	81	83	80	82	83	86	86	85	82	86	87	86	87	89	87	88	89	93	93	92	89	93	93	93	94	96
Required Cont. Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Required Disp. Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	130	130	150	150	150	150	150	150	150	150	150





# Major Projects

---

- WESM Mindanao – 4<sup>th</sup> Quarter of 2018
- Mindanao Visayas Interconnection Project – December 2020
- Mindanao Railway Project – Tagum Davao Digos Segment - 2021



---

# Thank You!



(+632) 479-2900 loc. 202



beejeedequina@gmail.com



[www.doe.gov.ph](http://www.doe.gov.ph)



<https://web.facebook.com/doe.gov.ph>



@doe\_ph



# Summary of Mindanao Power Projects as of 31 December 2017

Type of Power Plant	Committed			Indicative		
	No. of Proponents	Capacity (MW)	% Share	No. of Proponents	Capacity (MW)	% Share
Coal	2	700.0	52.5	4	1,138.0	57.5
Oil-Based	4	29.5	2.2	2	25.88	2.3
Natural Gas	0	0.0	0.0	0	0.0	0.0
Renewable Energy	22	602.9	45.2	20	773.4	40.3
<i>Geothermal</i>	0	0.0	0.0	1	30.0	1.5
<i>Hydro</i>	19	590.9	44.3	5	268	13.5
<i>Biomass</i>	3	12.0	0.9	5	65.4	4.5
<i>Solar</i>	0	0.0	0.0	9	410.0	20.7
<i>Wind</i>	0	0.0	0.0	0	0.0	0.0
<b>TOTAL</b>	<b>28</b>	<b>1,332.4</b>	<b>100.0</b>	<b>26</b>	<b>1,937.28</b>	<b>100.0</b>



# Mindanao Grid Committed Power Projects, 1,332.4 MW

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Testing & Commissioning	Target Commercial Operation
<b>COAL</b>						
GNPower Kauswagan Clean Coal-Fired Power Plan	GN Power Kauswagan Ltd. Co.	GNPower Ltd. Co	Kauswagan, Lanao del Norte	600	2019	2019*
Southern Mindanao Coal Fired Power Station Unit 2	Sarangani Energy Corporation (SEC)	Alsons Power Corporation	Brgy, Kamanga, Maasim, Sarangani	100	Dec 2018	Jan 2019
<b>SUBTOTAL</b>				<b>700.0</b>		
<b>OIL-BASED</b>						
Peakpower Soccsargen, Inc. Bunker Fired Power Plant	Peakpower Soccsargen, Inc.	Peakpower Soccsargen, Inc.	General Santos City, South Cotabato	13.94	January 2018 <sup>b</sup>	January 2018 <sup>b</sup> (Target Testing & Commissioning)
Peakpower San Francisco, Inc. Bunker Fired Power Plant	Peakpower San Francisco, Inc.	Peakpower San Francisco, Inc.	San Francisco, Agusan del Sur	5.2	January 2018 <sup>b</sup>	January 2018 <sup>b</sup> (Target Testing & Commissioning)
Peakpower Bukidnon, Inc. Bunker Fired Power Plant	Peakpower Bukidnon, Inc.	Peakpower Bukidnon, Inc.	Manolo Fortich, Bukidnon	10.4	January 2018 <sup>b</sup>	January 2018 <sup>b</sup> (Target Testing & Commissioning)
<b>SUBTOTAL</b>				<b>29.54</b>		

\*\*\* on-going testing and commissioning

TBD – to be determined

<sup>b</sup> Updated from proponent's submission



# Mindanao Grid Committed Power Projects, 1,332.4 MW

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Testing & Commissioning	Target Commercial Operation
<b>HYDRO</b>						
New Bataan	Euro Hydro Power (Asia) Holdings, Inc.	Euro Hydro Power (Asia) Holdings, Inc.	New Bataan, Compostela Valley	2.4	January 2018	March 2018
Manolo Fortich I	Hedcor Bukidnon, Inc.	Hedcor Bukidnon, Inc.	Santiago, Bukidnon	43.4	January 2018	March 2018
Manolo Fortich 2	Hedcor Bukidnon, Inc.	Hedcor Bukidnon, Inc.	Santiago, Bukidnon	25.4	January 2018	March 2018
Lake Mainit	Agusan Power Corporation	Agusan Power Corporation	Jabonga, Agusan del Norte	25	January 2018	March 2018
Asiga	Asiga Green Energy Corp.	Asiga Green Energy Corp.	Santiago, Agusan del Norte	8	August 2019	August 2019 (Target Testing and Commissioning)
Bubunawan Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Baungon and Libona, Bukidnon	23	December 2021	December 2021 (Target Testing and Commissioning)
Culaman Hydroelectric Power Project	Oriental Energy and Power Generation Corporation	Oriental Energy and Power Generation Corporation	Manolo Fortich, Bukidnon	10	December 2021	December 2021 (Target Testing and Commissioning)
Katipunan River Mini Hydro Power Project	Repower Energy Development	Repower Energy Development	Cabanglasan, Bukidnon	6.2	December 2021	December 2021 (Target Testing and Commissioning)
Upper Manupali	Bukidnon II Electric Cooperative, Inc.	Bukidnon II Electric Cooperative, Inc.	Valencia City, Bukidnon	4.4	December 2022	December 2022 (Target Testing and Commissioning)
Mangima Hydroelectric Power Project	Philnew Hydro Power Corporation	Philnew Hydro Power Corporation	Manolo Fortich, Bukidnon	10	December 2022	December 2022 (Target Testing and Commissioning)

\*\*\* on-going testing and commissioning

TBD – to be determined

Updated from proponent's submission

# Mindanao Grid Committed Power Projects, 1,332.4 MW

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Testing & Commissioning	Target Commercial Operation
<b>HYDRO</b>						
Mat-i-2	Philnew Hydro Power Corporation	Philnew Hydro Power Corporation	Cagayan de Oro, Misamis Oriental	1.6	December 2022	December 2022 (Target Testing and Commissioning)
Mat-i-3	Philnew Hydro Power Corporation	Philnew Hydro Power Corporation	Cagayan de Oro, Misamis Oriental	3.25	December 2022	December 2022 (Target Testing and Commissioning)
Lower Maladugao River Mini-Hydropower Project	Bukidnon Maladugao Hydro Power Corporation	Bukidnon Maladugao Hydro Power Corporation	Kalilangan and Wao, Bukidnon	15.7	December 2022	December 2022 (Target Testing and Commissioning)
Maladugao (Upper Cascade) Hydroelectric Power Project	UHPC Bukidnon Hydro Power I Corporation	UHPC Bukidnon Hydro Power I Corporation	Kalilangan, Bukidnon	8.4	December 2022	December 2022 (Target Testing and Commissioning)
Maramag	Maramag Mini-Hydro Corp	Maramag Mini-Hydro Corp	Maramag, Bukidnon	1.4	December 2022	December 2022 (Target Testing and Commissioning)
Manupali	Matic Hydropower Corp	Matic Hydropower Corp	Valencia, Bukidnon	9	December 2022	December 2022 (Target Testing and Commissioning)
Malitbog	Philnewriver Power Corp.	Philnewriver Power Corp.	Malitbog, Bukidnon	3.4	December 2022	December 2022 (Target Testing and Commissioning)
Pulanai	Repower Energy Development	Repower Energy Development	Valencia, Bukidnon	10.6	December 2022	December 2022 (Target Testing and Commissioning)
Langaran	Kaltimex Langaran Hydro, Inc.	Kaltimex Langaran Hydro, Inc.	Calamba, Misamis Occidental	3.60	December 2022	December 2022 (Target Testing and Commissioning)
Alamada	Euro Hydro Power (Asia) Holdings, Inc.	Euro Hydro Power (Asia) Holdings, Inc.	Alamada, North Cotabato	2.84	December 2022	December 2022 (Target Testing and Commissioning)

\* On-going testing and commissioning

TBD – to be determined

Updated from proponent's submission



# Mindanao Grid Committed Power Projects, 1,332.4 MW

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Testing & Commissioning	Target Commercial Operation
<b>HYDRO</b>						
Polandoc	Euro Hydro Power (Asia) Holdings, Inc.	Euro Hydro Power (Asia) Holdings, Inc.	Leon Postigo, Zamboanga del Norte	5.70	December 2022	December 2022 (Target Testing and Commissioning)
Titunod	Euro Hydro Power (Asia) Holdings, Inc.	Euro Hydro Power (Asia) Holdings, Inc.	Kolambogan, Lanao del Norte	3.60	December 2022	December 2022 (Target Testing and Commissioning)
Bayug	Euro Hydro Power (Asia) Holdings, Inc.	Euro Hydro Power (Asia) Holdings, Inc.	Iligan, Lanao del Norte	17.81	December 2022	December 2022 (Target Testing and Commissioning)
Kalaong 1	Alsons Energy Development Corp.	Alsons Energy Development Corp.	Maitum, Sarangani	7.40	December 2022	December 2022 (Target Testing and Commissioning)
Puyo Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Jabonga, Agusan del Norte	30	December 2023	December 2023 (Target Testing and Commissioning)
Kalaong 2	Alsons Energy Development Corp.	Alsons Energy Development Corp.	Maitum, Sarangani	4.80	December 2023	December 2023 (Target Testing and Commissioning)
Sawaga River Mini Hydro Power Project	Repower Energy Development	Repower Energy Development	Malaybalay, Bukidnon	4.5	December 2024	December 2024 (Target Testing and Commissioning)
Cabadbaran Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Cabadbaran, Agusan del Norte	9.75	December 2024	December 2024 (Target Testing and Commissioning)
Tagum	Sta. Clara Power Corp.	Sta. Clara Power Corp.	Maco, Compostela Valley	2.60	December 2024	December 2024 (Target Testing and Commissioning)
Tagoloan	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Impasugong & Sumilao, Bukidnon	39	December 2025	December 2025 (Target Testing and Commissioning)

\* TBD – to be determined

Updated from proponent's submission

# Mindanao Grid Committed Power Projects, 1,332.4 MW

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Testing & Commissioning	Target Commercial Operation
<b>HYDRO</b>						
Pasonanca	Philcarbon, Inc.	Philcarbon, Inc.	Zamboanga City	0.5	December 2025	December 2025 (Target Testing and Commissioning)
Clarin	Philnew Hydro Power Corporation	Philnew Hydro Power Corporation	Clarin, Misamis Occidental	5	December 2025	December 2025 (Target Testing and Commissioning)
Mat-i-I	Philnew Hydro Power Corporation	Philnew Hydro Power Corporation	Claveria, Cagayan de Oro	4.85	December 2025	December 2025 (Target Testing and Commissioning)
Lanon (Lam-alu)	Euro Hydro Power (Asia) Holdings, Inc.	Euro Hydro Power (Asia) Holdings, Inc.	Lake Sebu, South Cotabato	9.5	December 2025	December 2025 (Target Testing and Commissioning)
Silo-o	Philnewriver Power Corp.	Philnewriver Power Corp.	Malitbog, Bukidnon	3.29	December 2025	December 2025 (Target Testing and Commissioning)
Agus III	Maranao Energy Corporation	Maranao Energy Corporation	Pantar & Balo-I, Lanao del Sur & Lanao del Norte	225	December 2025	December 2025 (Target Testing and Commissioning)
<b>SUBTOTAL</b>				<b>590.9</b>		
<b>BIOMASS</b>						
GEEC Biomass Cogeneration System***	Green Earth Enersource Corporation	Green Earth Enersource Corporation	Maguindanao	3.5	May 2017	March 2018 <sup>b</sup>
PTCI Rice Husk-Fired Biomass Cogeneration Facility ***	Philippine Trade Center, Inc.	Philippine Trade Center, Inc.	Maguindanao	3	June 2017	March 2018
LPC Rice Husk-Fired Biomass Power Plant Project	Lamsan Power Corporation	Lamsan Power Corporation	Maguindanao	5.5	Nov 2017	March 2018
<b>SUBTOTAL</b>				<b>12.0</b>		
<b>TOTAL</b>				<b>1,332.4</b>		

\*\*\* on-going testing and commissioning

TBD – to be determined

<sup>b</sup> Updated from proponent's submission



# Mindanao Grid Indicative Power Projects, 1,937.28

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Commissioning
<b>COAL</b>					
Ozamiz Power Coal Fired Power Plant	Ozamiz Power Generation, Inc.	Ozamiz Power Generation, Inc.	Brgy. Pulot, Ozamiz City, Misamis Occidental	Phase 1 - 2 x 150MW Phase 2 - 1 x 150MW	Phase 1 – Jun 2021 Phase 2 – Dec 2022
SMC Davao Power Plant Project Phase II	San Miguel Consolidated Power Corporation	San Miguel Consolidated Power Corporation	Brgy. Culaman, Malita, Davao del Sur	300.0	<b>TBD</b>
SRPI CFB Coal-Fired Power Station	San Ramon Power Inc.	Mapalad Power Corporation	Sitio San Ramon, Brgy. Talisayan, Zamboanga City	100.0	<b>TBD</b>
SMC Global Power	SMC Global Power	San Miguel Consolidated Power Corporation	Brgy. Darong, Santa Cruz, Davao del Sur	328	<b>TBD</b>
Balingasag Coal-Fired Power Plant	Minergy Coal Corporation	Minergy Coal Corporation	Brgy. Mandangoa, Balingasag, Misamis Oriental	110.0	<b>TBD</b>
<b>SUBTOTAL</b>				<b>1,138.0</b>	
<b>GEOHERMAL</b>					
Mindanao 3 Geothermal	Energy Development Corporation	Energy Development Corporation	Kidapawan, North Cotabato	30.0	Dec 2022
<b>SUBTOTAL</b>				<b>30.0</b>	
<b>HYDRO</b>					
Limbatangon Hydroelectric Power Project	Turbines Resource & Development Corp.	Turbines Resource & Development Corp.	Cagayan de Oro City, Misamis Oriental	9	2018
Tumalaong Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Baungon, Bukidnon	9	2018
Kitaotao 1	Hedcor Bukidnon, Inc.	Hedcor Bukidnon, Inc.	Bukidnon	70	March 2019
10 MW Cabulig-2 Hydroelectric Power Plant Project	Mindanao Energy Systems, Inc.	Mindanao Energy Systems, Inc.	Jasaan, Misamis Oriental	10	December 2018
Puyo Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Jabonga, Agusan del Norte	30	December 2019
Davao Hydroelectric Power Project	San Lorenzo Ruiz Olympia	San Lorenzo Ruiz Olympia	Davao City	140	December 2023
<b>SUBTOTAL</b>				<b>268.0</b>	

**TBD – to be determined**



# Mindanao Grid Indicative Power Projects, 1,937.28

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Commissioning
<b>COAL</b>					
Ozamiz Power Coal Fired Power Plant	Ozamiz Power Generation, Inc.	Ozamiz Power Generation, Inc.	Brgy. Pulot, Ozamiz City, Misamis Occidental	Phase 1 - 2 x 150MW Phase 2 - 1 x 150MW	Phase 1 – Jun 2021 Phase 2 – Dec 2022
SMC Davao Power Plant Project Phase II	San Miguel Consolidated Power Corporation	San Miguel Consolidated Power Corporation	Brgy. Culaman, Malita, Davao del Sur	300.0	<b>TBD</b>
SRPI CFB Coal-Fired Power Station	San Ramon Power Inc.	Mapalad Power Corporation	Sitio San Ramon, Brgy. Talisayan, Zamboanga City	100.0	<b>TBD</b>
SMC Global Power	SMC Global Power	San Miguel Consolidated Power Corporation	Brgy. Darong, Santa Cruz, Davao del Sur	328	<b>TBD</b>
Balingasag Coal-Fired Power Plant	Minergy Coal Corporation	Minergy Coal Corporation	Brgy. Mandangoa, Balingasag, Misamis Oriental	110.0	<b>TBD</b>
<b>SUBTOTAL</b>				<b>1,138.0</b>	
<b>GEOHERMAL</b>					
Mindanao 3 Geothermal	Energy Development Corporation	Energy Development Corporation	Kidapawan, North Cotabato	30.0	Dec 2022
<b>SUBTOTAL</b>				<b>30.0</b>	
<b>HYDRO</b>					
Limbatangon Hydroelectric Power Project	Turbines Resource & Development Corp.	Turbines Resource & Development Corp.	Cagayan de Oro City, Misamis Oriental	9	2018
Tumalaong Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Baungon, Bukidnon	9	2018
Kitaotao 1	Hedcor Bukidnon, Inc.	Hedcor Bukidnon, Inc.	Bukidnon	70	March 2019
10 MW Cabulig-2 Hydroelectric Power Plant Project	Mindanao Energy Systems, Inc.	Mindanao Energy Systems, Inc.	Jasaan, Misamis Oriental	10	December 2018
Puyo Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	First Gen Mindanao Hydropower Corp.	Jabonga, Agusan del Norte	30	December 2019
Davao Hydroelectric Power Project	San Lorenzo Ruiz Olympia	San Lorenzo Ruiz Olympia	Davao City	140	December 2023
<b>SUBTOTAL</b>				<b>268.0</b>	

**TBD – to be determined**



# Mindanao Grid Indicative Power Projects, 1,937.28

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Commissioning
<b>SOLAR</b>					
Sumilao Solar Project	Sunasia Energy, Inc.	Sunasia Energy, Inc.	Sumilao, Bukidnon	2	2018
GenSan Solar Power Project Phase I	Del Sol Energy CGS, Inc.	Del Sol Energy CGS, Inc.	Brgy. Conel, General Santos City, South Cotabato	48	December 2018
GenSan Solar Power Project Phase II	Del Sol Energy CGS, Inc.	Del Sol Energy CGS, Inc.	Brgy. Tumbler, General Santos City, South Cotabato	48	December 2018
Astroenergy Solar Power Project	Astroenergy Gensan Inc.	Astroenergy Gensan Inc.	General Santos City, South Cotabato	60	December 2018
San Francisco Solar Power Project	Gpower Inc.	Gpower Inc.	San Francisco, Agusan del Sur	10	December 2018
Jasaan Solar Power Project	Lohas and Soul Lighting, Inc.	Lohas and Soul Lighting, Inc.	Jasaan, Misamis Oriental	60	December 2019
Lal-lo Solar PV PP	NAREDCO Corp.	NAREDCO Corp.	Maasim, Sarangani	100	TBD
Ecoglobal Solar	Ecoglobal, Inc.	Ecoglobal, Inc.	Zamboanga City	30	TBD
Hayes Solar Power Project	Hayes Solar Energy Corporation	Hayes Solar Energy Corporation	Villanueva, Misamis Oriental	27	TBD
Opol Solar Power Project	Electra Ecoenergy Corporation	Electra Ecoenergy Corporation	Brgy. Patag, Opol, Misamis Oriental	25	TBD
<b>SUBTOTAL</b>				<b>410.0</b>	
<b>BIOMASS</b>					
Napier Grass-Fired Biomass Power Plant Project	Manolo Fortich Biomass Energy Corporation	Manolo Fortich Biomass Energy Corporation	Bukidnon	12	2018
Malay-balay Bio-Energy Corporation Multi Feedstock Generating Facility	Malaybalay Bio-Energy Corporation	Malaybalay Bio-Energy Corporation	Bukidnon	10	Dec 2020
Woody Biomass Power Plant Project	CARAGA Renewable Energy Corporation	CARAGA Renewable Energy Corporation	Agusan del Norte	23.5	Dec 2020
Napier Grass-Fired Biomass Power Plant Project	Pilipinas Joule Energy Corporation	Pilipinas Joule Energy Corporation	Bukidnon	5	Dec 2020
Crystal Sugar Bagasse-Fired Co-generation Power Plant	Crystal Sugar, inc.	Crystal Sugar, Inc.	Maramag, Bukidnon	14.9	TBD
<b>SUBTOTAL</b>				<b>65.4</b>	

**TBD – to be determined**



# Mindanao Grid Indicative Power Projects, 1,937.28

Name of the Project	Project Proponent	Mother/ JV Company	Location	Rated Capacity (MW)	Target Commissioning
<b>OIL</b>					
TPI Diesel Power Plant	Total Power Incorporated	Total Power Incorporated	Mati, Davao Oriental	5.88	TBD
Panasia Malita Diesel Power Plant	Panasia Energy, Inc.	Millennium Energy, Inc.	Malita, Davao	20	TBD
<b>SUBTOTAL</b>				<b>25.88</b>	
<b>TOTAL</b>				<b>1,937.28</b>	

**TBD** – to be determined

