

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYSTEM DEMAND (2016)	COMM'NG DATE	STATUS	REMARKS		
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)							
I. SPUG - LUZON :																	
A. MARINDUQUE/QUEZON/NORTH LUZON AREA:																	
Marinduque Grid																	
1	1	BOAC DPP, Marinduque (24 hours operation) (MARELCO) MONARK EQUIPMENT CORP. (RENTAL)	1	CKD	1.224	1.000	46,478.700						13-Jun-97	Operational			
			2	CKD	1.224	1.000	36,277.400							13-Jun-97	Operational		
			3	CKD	1.224	1.000	42,332.900							13-Jun-97	Operational		
			4	DEUTZ	0.550	0.450	221.660							2-Apr-09	Operational	For transfer to Torrijos DPP	
			Sub-total (owned)					4.222	3.450								Contracted Capacity: 4 MW
			8	MONARK	9.700	7.500	22,424.240								30-Nov-14	Operational	Contract Period: 15 Sep 2015 to 14 Sep 2016
			Sub-total (rental)					9.700	7.500								Contracted Capacity: 3.5 MW
			Total					13.922	10.950								Contract Period: 30 Aug 2015 to 28 May 2016 (extended)
1	2	TORRIJOS DPP, Marinduque back-up (MARELCO)	2	PERKINS	0.500	0.500	2,763.290						9-Mar-07	Operational	Unit is reserved for load shedding at Torrijos area		
			Sub-total					0.500	0.500								
3	3	POWER BARGE 120, Marinduque (24 hours operation) (MARELCO)	1	DAIHATSU	1.800	0.000	0.000						15-Jun-95	Operational	On drydock from 06 Dec 2014 to 29 March 2015. But cannot restore its operation due to problem on mooring facility; on-going construction of mooring facility; tentative date of completion - May 2016; current status - for test and commissioning		
			2	DAIHATSU	1.800	0.000	0.000						15-Jun-95	Operational			
			3	DAIHATSU	1.800	0.000	0.000							15-Jun-95	Operational		
			4	DAIHATSU	1.800	0.450	89,452.430							15-Jun-95	Operational		
			Sub-total					7.200	0.450								
Total Marinduque Grid :					21.622	11.900		8.610	5.200	5.779	3.290	8.620					
2	4	MANIWAYA DPP, Marinduque (8 hours operation) 3:00PM-11:00PM (MARELCO)	1	PERKINS	0.054	0.050	15,926.440						1-Nov-08	Operational	On-standby genset		
			2	PERKINS	0.050	0.048	12,533.110							5-Jun-09	Operational		
			Total :					0.104	0.098		0.0462	0.0112	0.0299	0.0518	0.0483		
3	5	MONGPONG DPP, Marinduque (8 hours operation) 3:00PM-11:00PM (MARELCO)	1	PERKINS	0.054	0.050	21,248.600						1-Nov-08	Operational			
			2	PERKINS	0.050	0.048	7,833.060							26-Jun-09	Operational	On-standby genset	
			Total :					0.104	0.098		0.0448	0.0165	0.0289	0.0532	0.0448		
4	6	POLO DPP, Marinduque (8 hours operation) 3:00PM-11:00PM (MARELCO)	1	PERKINS	0.042	0.040	3,867.270						1-Nov-08	Operational			
			2	PERKINS	0.050	0.048	13,563.020							25-Jun-09	Operational	On-standby genset	
			Total :					0.092	0.088		0.0255	0.0048	0.0179	0.0625	0.0255		
5	7	POLILIO DPP, Quezon (16 hours operation) 2:30PM-6:30AM (QUEZELCO II)	1	MAN-DIESEL	0.500	0.370	32,546.920						20-Jan-10	Operational			
			2	MAN-DIESEL	0.500	0.380	30,745.950							19-Nov-09	Operational		
			3	FGW	0.540	0.000	16,291.500							22-Jul-08	Unoperational	Unoperational due to damaged camshaft and rocker arm rollers; due for major overhauling; no tentative restoration date since PR for replacement is still on process at NPC-HO	
			4	DALE-PERKINS	0.560	0.380	36,533.840							1-Jan-90	Operational		
			6	DALE-PERKINS	0.260	0.200	25,599.720							21-Nov-96	Operational		
			7	FG-WILSON	0.300	0.300	51.410							14-Apr-16	Operational	Under load/reliability testing	
			Total :					2.360	1.630		1.483	0.362	0.978	0.147	1.483		
6	8	JOMALIG DPP, Quezon (8 hours operation) 5:00PM-1:00AM (QUEZELCO II)	1	DALE-PERKINS	0.163	0.150	22,347.270						1-Dec-97	Operational			
			2	PERKINS	0.260	0.240	63,421.620							1-Jan-00	Operational		
			Total :					0.423	0.390		0.175	0.090	0.110	0.215	0.175		
7	9	PATNANUNGAN DPP, Quezon (8 hours operation) 4:00PM-12:00MN (QUEZELCO II)	1	DALE-PERKINS	0.163	0.150	32,325.170						27-Nov-97	Operational			
			2	DALE-PERKINS	0.260	0.250	28,000.030							19-Jan-93	Operational		
			Total :					0.423	0.400		0.203	0.090	0.140	0.197	0.203		

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			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)						
8	10	BASCO DPP, Batanes (24 hours operation) (BATANELCO) MONARK EQUIPMENT CORP. (RENTAL)	1	STAMFORD-PERKINS	0.500	0.400	23,189.610						7-Aug-04	Operational		
			8	MAN B&W	0.500	0.400	54,081.170						2-Apr-03	Operational		
			Sub-total (owned)		1.000	0.800										
			9	MONARK-(RENTAL)	1.445	1.100	16,073.000							21-Jun-14	Operational	Contracted Capacity: 1.1 MW Contract Period: 21 Jun 2015 to 20 Jun 2016
	Sub-total (rental)		1.445	1.100												
	Total		2.445	1.900												
	Sub-total (rental)		1.445	1.100												
	Total Grid :		2.625	1.900				1.444	0.621	0.870	0.456	1.444				
9	12	SABTANG DPP, Batanes (18 hours operation) 6:00AM-12:00MN (BATANELCO)	1	DALE-PERKINS	0.163	0.000	63,131.420						15-Jan-93	Unoperational	Major overhauling completed; awaiting for the delivery of new radiator from the supplier; on going restoration; target date of restoration is on 06 May 2016	
			2	DALE-PERKINS	0.163	0.130	1,071.620						15-Jan-93	Operational		
			Total :		0.326	0.130		0.130	0.030	0.083	0.000	0.130				
10	13	ITBAYAT DPP, Batanes (18 hours operation) 6:00AM-12:00MN (BATANELCO)	1	DALE-PERKINS	0.163	0.150	46,889.650						1-Dec-96	Operational		
			2	DALE-PERKINS	0.163	0.000	39,338.080						1-Dec-96	Unoperational	Under major over hauling. Target Date of Restoration is on 04 May 2016.	
			Total :		0.326	0.150		0.145	0.070	0.096	0.005	0.145				
11	14	CALAYAN DPP, Cagayan (12 hours operation) 12:00NN-12:00MN (LGU-CALAYAN)	1	DALE-PERKINS	0.163	0.150	24,984.100						22-Aug-92	Operational		
			2	DALE-PERKINS	0.163	0.150	37,185.300						22-Aug-92	Operational	Simulation load test for the 25% loading on April 18, 2016.	
			3	FGWILSON	0.100	0.090	10,028.700						3-Mar-08	Operational	Restored on April 8, 2016 after the replacement of main circuit breaker taken from Jomalig DPP.	
			Total :		0.426	0.390		0.170	0.059	0.113	0.220	0.170				
12	15	KABUGAO DPP, Apayao (24 hours operation) (KAELCO)	1	DALE-PERKINS	0.260	0.250	58,947.860						8-Mar-93	Operational		
			2	DALE-PERKINS	0.163	0.150	59,817.000						27-Oct-93	Operational		
			3	CKD	0.220	0.000	45,706.150						28-Sep-96	Unoperational	Unoperational since 11 March 2016; unit is under maintenance; for replacement of cylinder head; tentative date of restoration is on 30 April 2016	
Total :		0.643	0.400		0.200	0.051	0.111	0.200	0.200							
13	16	PALANAN DPP, Isabela (12 hours operation) 12:00NN-12:00MN (ISELCO II)	1	DALE-PERKINS	0.163	0.150	27,952.130						1-Aug-95	Operational		
			2	DALE-PERKINS	0.260	0.250	25,727.710						1-Aug-95	Operational		
			3	FGWILSON	0.100	0.090	2,329.400						14-Apr-09	Operational		
Total :		0.523	0.490		0.180	0.052	0.112	0.310	0.181							
14	17	CASIGURAN DPP, Aurora (24 hours operation) (AURELCO)	1	MAN	0.500	0.430	41,794.020						12-Jul-04	Operational		
			2	MAN	0.500	0.450	50,772.300						12-Jul-04	Operational		
			4	DALE-PERKINS	0.260	0.180	49,524.280						6-Dec-13	Operational		
			5	DALE-PERKINS	0.675	0.450	13,236.480						2-Aug-92	Operational		
			Total :		1.935	1.510		1.454	0.298	0.826	0.056	1.454				
		Eco Market Solutions, Inc. (EMS)	1	Biomass	0.250	0.000						2013	Unoperational	EMS did not resume their operation after being damaged by typhoon on 12 Aug 2013		

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			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
		B. CATANDUANES/CAMSUR/MASBATE/ALBAY AREA:													
	18	BALONGBONG HEPP, Catanduanes (24 hours operation) (FICELCO)	1	SFW 900-10/1430	0.900	0.900	151,248.030						1-Jun-83	Operational	
			2	SFW 900-10/1430	0.900	0.900	133,471.890						1-Jun-83	Operational	
				Sub-total	1.800	1.800									
	19	MARINAWA DPP, Catanduanes (24 hours operation) (FICELCO)	1	DALE-PERKINS	0.560	0.450	51,969.000						30-Jul-99	Operational	
			2	DALE-PERKINS	0.560	0.450	3,178.000						26-Feb-01	Operational	
			6	DALE-PERKINS	0.560	0.450	47,931.000						7-May-14	Operational	
			7	DALE-PERKINS	0.560	0.450	45,506.000						31-May-14	Operational	
				Sub-total (owned)	2.240	1.800									
	15	MONARK EQUIPMENT CORP. (RENTAL)	3	CAT-RENTAL	1.500	1.200	219.000						19-Jul-14	Operational	Contracted Capacity: 2.8 MW
			4	CAT-RENTAL	1.500	1.200	199.000						19-Jul-14	Operational	Contract Period: 06 Apr 2016 to 05 Oct 2016
			5	CAT-RENTAL	0.600	0.480	816.000						19-Jul-14	Operational	
				Sub-total (rental)	3.600	2.880									
				Total	5.840	4.680									
	20	VIGA DPP, Catanduanes (24 hours operation) (FICELCO)	1	DALE-PERKINS	0.560	0.400	29,010.710						2-May-03	Operational	
			2	CUMMINS	0.500	0.350	1,846.870						31-Aug-12	Operational	
			3	CUMMINS	0.500	0.350	2,119.070						31-Aug-12	Operational	
			4	DALE-PERKINS	0.560	0.400	31,021.150						3-May-03	Operational	
				Sub-total	2.120	1.500									
				Total Catanduanes (NPC) Grid :	9.760	7.980									
	NPP	Sun West Water & Electric Co. (Hitoma 1)	1	Hydro	1.500	1.150							2010	Operational	
	NPP	Sun West Water & Electric Co. (Solong)	1	Hydro	2.100	1.690							2010	Operational	
	NPP	Catanduanes Power Generation (CPGI)	1	Bunker	3.600	2.880							2011	Operational	
				Total Catanduanes Grid :	16.960	13.700		9.219	4.792	*	4.481	9.219			* - No submitted data from NPP
	21	PALUMBANES DPP, Catanduanes (8 hours operation) 4:00PM-12:00MN (FICELCO)	1	CUMMINS	0.022	0.018	3,068.600						1-Feb-15	Operational	
				Total :	0.022	0.018		0.017	0.006	0.010	0.001	0.018			
	22	RAPU-RAPU DPP, Albay (12 hours operation) 12:00NN-12:00MN (APECC)	1	DALE-PERKINS	0.163	0.140	37,722.540						1-Jan-05	Operational	
			2	DALE-PERKINS	0.163	0.145	39,009.870						7-Nov-96	Operational	
			5	MAN-DIESEL	0.500	0.000	17,565.830						24-Oct-07	Unoperational	Unoperational since 03 October 2015 due to defective crankshaft: tentative date of restoration - 2nd week of June 2016.
			3	PERKINS	0.300	0.000	14,840						1-Nov-15	Unoperational	TPI Genset- Ongoing testing
			4	PERKINS	0.300	0.000	12,430						1-Nov-15	Unoperational	TPI Genset- Ongoing testing
				Total :	0.826	0.285		0.284	0.152	0.233	0.001	0.284			
	23	BATAN DPP, Albay (8 hours operation) 4:00PM-12:00MN (APECC)	1	DALE-PERKINS	0.163	0.130	39,266.000						1-Aug-91	Operational	
			2	PERKINS	0.300	0.000	0.000						23-Sep-15	Unoperational	TPI Genset - Awaiting for the final schedule of commercial operation.
			3	DALE-PERKINS	0.163	0.130	18,869.400						7-Nov-96	Operational	
				Total :	0.326	0.260		0.223	0.060	0.139	0.037	0.223			
	NPP	Masbate (Mainland) Grid DMCI Power Corporation	1	Bunker	24.400	21.200							2010	Operational	
				Total Grid :	24.400	21.200									
		Other Islands in Masbate													
	24	TICAO DPP, Masbate (24 hours operation) (TISELCO)	1	FG-WILSON	0.300	0.300	344.530						14-Dec-15	Operational	
			5	MAN	0.500	0.400	24,483.370						25-Jan-02	Operational	
				Sub-total (owned)	0.800	0.700									
		MONARK EQUIPMENT CORP. (RENTAL)	7	MONARK-(RENTAL)	1.600	1.150	26,716.840						26-Sep-12	Operational	Contracted Capacity: 1 MW Contract Period: 05 Jun 2015 to 04 Jun 2016
				Sub-total (rental)	1.600	1.150									
				Total :	2.400	1.850		1.666	0.638	0.972	0.184	1.666			

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			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
20	25	BURIAS DPP, Masbate (12 hours operation) 12:00NN-12:00MN (LGU San Pascual)	1	DALE-PERKINS	0.260	0.200	51,051.000						13-Nov-94	Operational	
			2	DALE-PERKINS	0.163	0.130	0.000						10-May-98	Operational	
			3	VOLVO	0.560	0.400	0.000						21-Sep-12	Operational	
			4	PERKINS	0.300	0.300	0.000						3-Dec-15	Operational	
			Total :	1.283	1.030		0.254	0.153	0.169	0.776	0.261				
21	26	GUINAWAYAN DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU - Placer)	1	FG WILSON	0.035	0.032	20,218.640						1-May-07	Operational	
				Total :	0.035	0.032		0.0201	0.0075	0.0153	0.0119	0.0205			
22	27	GILOTONGAN DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU - Cawayan)	1	FG WILSON	0.090	0.081	19,302.630						1-May-07	Operational	
				Total :	0.090	0.081		0.0785	0.0237	0.0595	0.0025	0.0785			
23	28	NABUCTOT DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU - Placer)	1	FG WILSON	0.025	0.022	18,973.180						1-May-07	Operational	
				Total :	0.025	0.022		0.0161	0.0071	0.0147	0.0059	0.0164			
24	29	PENA DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU - Cawayan)	1	FG WILSON	0.090	0.081	18,954.740						1-May-07	Operational	
				Total :	0.090	0.081		0.0360	0.0120	0.0273	0.0450	0.0410			
25	30	CHICO DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU - Cawayan)	1	FG WILSON	0.035	0.032	18,880.900						1-May-07	Operational	
				Total :	0.035	0.032		0.0200	0.0096	0.0156	0.0120	0.0200			
26	31	DANCALAN DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU San Pascual)	1	FG WILSON	0.080	0.065	7,343.200						27-May-12	Operational	
				Total :	0.080	0.065		0.0240	0.0050	0.0143	0.0410	0.0240			
27	32	MABABANGBAYBAY DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU-Claveria)	1	FG WILSON	0.060	0.050	8,222.000						24-Apr-12	Operational	
				Total :	0.060	0.050		0.0180	0.0070	0.0124	0.0320	0.0180			
28	33	MALAKING ILOG DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU San Pascual)	1	FG WILSON	0.060	0.050	9,514.700						9-Apr-12	Operational	
				Total :	0.060	0.050		0.0220	0.0080	0.0151	0.0280	0.0220			
29	34	OSMENIA DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU-Claveria)	1	FG WILSON	0.080	0.065	8,439.000						10-Jul-12	Operational	
				Total :	0.080	0.065		0.0290	0.0110	0.0210	0.0360	0.0350			
30	35	PENAFRANCIA DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU-Claveria)	1	FG WILSON	0.080	0.065	7,932.500						10-Jun-12	Operational	
				Total :	0.080	0.065		0.0180	0.0070	0.0137	0.0470	0.0180			
31	36	QUEZON DPP, Masbate (8 hours operation) 4:00PM-12:00MN (LGU-Claveria)	1	FG WILSON	0.060	0.050	8,365.300						7-Jun-12	Operational	
				Total :	0.060	0.050		0.0130	0.0060	0.0108	0.0370	0.0140			

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			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
32	37	LAHUY DPP, Camarines Sur (4 hours operation) 6:00PM-10:00PM (CASURECO IV)	1	CUMMINS	0.120	0.096	8,331.000	0.0500	0.0200	0.0425	0.0460	0.0500	6-Apr-09	Operational	
				Total :	0.120	0.096									
33	38	HAPONAN DPP, Camarines Sur (4 hours operation) 6:00PM-10:00PM (CASURECO IV)	1	CUMMINS	0.035	0.028	6,821.000	0.0000	0.0000	0.0000	0.0280	0.0000	29-Jul-09	Operational	No operation; on standby; CASURECO IV requested to stop its operation due to low collection efficiency
				Total :	0.035	0.028									
34	39	QUINALASAG DPP, Camarines Sur (8 hours operation) 4:00PM-12:00MN (CASURECO IV)	1	CUMMINS	0.150	0.120	9,763.000	0.0940	0.0130	0.0540	0.0260	0.0940	14-Dec-09	Operational	
				Total :	0.150	0.120									
35	40	ATULAYAN DPP, Camarines Sur (6 hours operation) 5:00PM-11:00PM (CASURECO IV)	1	CUMMINS	0.022	0.018	4,003.300	0.0066	0.0012	0.0044	0.0114	0.0071	1-Jun-14	Operational	
				Total :	0.022	0.018									
		C. MINDORO/ROMBLON AREA:													
		<u>Oriental Mindoro Grid</u>													
	NPP	Power One Corporation	1	Bunker	15.300	11.420							2012	Operational	
	NPP	Ormin Power, Inc.	1	Bunker	9.600	6.400							2011	Operational	
	NPP	Linao Mini Hydro (Lower Cascade)	1	Hydro	2.180	2.100							2012	Operational	
	NPP	Linao Mini Hydro (Upper Cascade)	1	Hydro	3.000	3.000							2012	Operational	
	NPP	Mindoro Grid Corporation (Calapan)	1	Diesel	6.600	5.000							2013	Operational	
	NPP	Mindoro Grid Corporation (Bongabong)	1	Diesel	6.600	5.000							2013	Operational	
	NPP	DMCI Power Corporation	1	Bunker	15.000	15.000							2015	Operational	
				Total Or. Mindoro Grid :	58.280	47.920									
		<u>Occidental Mindoro (San Jose) Grid</u>													
37	41	PULANG LUPA DPP, Occidental Mindoro (24 hours operation) (OMECCO)	1	MONARK-(RENTAL)	7.200	6.400	22,136.590						1-Oct-13	Operational	Contracted Capacity: 6 MW Contract Period: 25 Sep 2015 to 24 Sep 2016
			2	MONARK	4.600	4.000	11,534.700						4-Dec-13	Operational	Contracted Capacity: 2.5 MW Contract Period: 13 Jun 2015 to 12 Jun 2016 (extended)
		MONARK EQUIPMENT CORP. (RENTAL)	3	MONARK	3.500	2.500	5,216.870						17-Jun-15	Operational	Contracted Capacity: 4 MW (San Jose S/S) Contract Period: 24 Dec 2014 to 23 Jun 2016 (extended)
				Sub-total	15.300	12.900									
	42	POWER BARGE 106, Occidental Mindoro (24 hours operation) (OMECCO)	4	DAIHATSU	3.600	0.000	84,647.300						1-Sep-92	Unoperational	For crankshaft replacement; PR still on process; no tentative date of restoration
				Sub-total	3.600	0.000									
				Total Occ. Min. (San Jose) Grid :	18.900	12.900		12.780	6.360	8.098	0.120	12.780			
		<u>Occidental Mindoro (MAPSA) Grid</u>													
38	43	MAMBURAO DPP, Occidental Mindoro (24 hours operation) (OMECCO)	1	CAT-RENTAL	1.380	1.150	8,256.000						1-Jan-15	Operational	Contracted Capacity: 4.5 MW
			2	CAT-RENTAL	1.380	1.150	2,234.000						1-Jan-15	Operational	Contract Period: 25 Mar 2016 to 24 Mar 2017
		MONARK EQUIPMENT CORP. (RENTAL)	3	CAT-RENTAL	0.910	0.800	3,595.000						1-Jan-15	Operational	
			4	CAT-RENTAL	0.910	0.800	3,379.000						1-Jan-15	Operational	
			5	CAT-RENTAL	1.380	1.150	10,884.000						1-Jan-15	Operational	
			6	CAT-RENTAL	0.910	0.800	522.000						1-Apr-16	Operational	
				Total Occ. Min. (MAPSA) Grid :	6.870	5.850		4.500	1.750	2.576	1.350	4.500			

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS	
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)						
39	44	LUBANG DPP, Occidental Mindoro (24 hours operation) (LUBELCO)	1	CXZ-MAN	0.500	0.400	31,084.000						25-Mar-08	Operational		
			2	CXZ-MAN	0.500	0.400	33,829.000						25-Mar-08	Operational		
			3	CUMMINS	0.704	0.600	26,899.000						8-Jun-09	Operational		
			5	CUMMINS	0.724	0.550	828.450						14-Feb-16	Operational		
			Total :			2.428	1.950		0.880	0.440	0.525	1.070	0.880			
40	45	CABRA DPP, Occidental Mindoro (8 hours operation) 4:00AM-6:00AM/5:00PM-11:00PM (LUBELCO)	1	CUMMINS	0.060	0.055	5,372.220						1-Dec-12	Operational		
			2	CUMMINS	0.060	0.055	2,098.000						1-Dec-12	Operational		
			3	PERKINS	0.060	0.040	707.300						1-Jan-10	Operational		
			Total :			0.180	0.150		0.0543	0.0129	0.0280	0.0957	0.054			
41	46	TINGLOY DPP, Batangas (12 hours operation) 12:00NN-12:00MN (BATELEC II)	2	DALE-PERKINS	0.260	0.150	25,990.180						24-Dec-94	Operational		
			3	DALE-PERKINS	0.260	0.150	39,949.370						24-Dec-94	Operational		
			4	MAN CXZ	0.500	0.375	26,063.110						24-Aug-09	Operational		
			Total :			1.020	0.675		0.600	0.350	0.414	0.075	0.600			
42	47	ROMBLON DPP, Romblon (24 hours operation) (ROMELCO) Romblon (Mainland) Grid	1	TIDE-POWER	0.600	0.400	14,535.390						8-Oct-08	Operational		
			2	FG WILSON	0.600	0.400	25,855.000						10-Dec-08	Operational		
			3	FG WILSON	0.600	0.400	16,335.400						29-Nov-08	Operational		
			4	FG-WILSON	0.600	0.600	0.000						25-Apr-07	Operational		
			Total :			2.400	1.800									
42	48	POWER BARGE 114, Romblon (24 hours operation) MONARK RENTAL (ROMELCO) Romblon (Tablas Island) Grid	2	FG WILSON	0.650	0.400	26,604.800						1-Jun-09	Operational		
			4	FG WILSON	0.650	0.000	26,132.420						3-May-10	Unoperational	Unoperational since 28 Feb 2016 due to abnormal sound and defective June 2016	
			Sub-total (owned)			1.300	0.400									
			5	CAT-RENTAL	0.500	0.400	2,560.000							6-Jan-16	Operational	Contracted Capacity: 0.6 MW
			6	CAT-RENTAL	0.500	0.400	2,571.000							6-Jan-16	Operational	Contract Period: 5 Jan 2016 to 4 Jan 2017
			7	CAT-RENTAL	0.500	0.400	11,389.000							6-Jan-16	Operational	
			Sub-total (rental)			1.500	1.200									
Total :			2.800	1.600		1.648	0.775	1.087	1.752	1.774						
43	49	TABLAS DPP, Romblon (24 hours operation) (TIELCO) MONARK EQUIPMENT CORP. (RENTAL)	4	MAN	0.500	0.320	173,746.180						1-Dec-83	Operational		
			5	MAN	0.500	0.320	173,623.790						1-Dec-83	Operational		
			6	MAN	0.500	0.300	107,312.120						1-Nov-83	Operational		
			Sub-total (owned)			1.500	0.940									
			2	RENTAL-CATERPILLAR	1.000	0.800	7,755.230							1-Mar-13	Operational	Contracted Capacity: 1.8 MW
			3	RENTAL-CATERPILLAR	1.500	1.000	7,466.510							6-Jul-14	Operational	Contract Period: 19 Apr 2015 to 17 Oct 2016 (extended)
			4	RENTAL-CATERPILLAR	1.500	1.000	10,960.730							1-Mar-13	Operational	
Sub-total (rental)			4.000	2.800												
Total :			5.500	3.740												
50	50	POWER BARGE 109, Romblon (24 hours operation) (TIELCO)	1	PERKINS	0.600	0.500	9,087.000						3-Dec-13	Operational		
			3	FG WILSON	0.600	0.500	19,357.300						22-Sep-08	Operational		
			Sub-total			1.200	1.000									
NPP		Sun West Water & Electric Co. (SUWECO)	Total Tablas Is. (NPC) Grid :			6.700	4.740									
			1	Hydro	8.800	8.000							2015	Operational		
Total Tablas Is. Grid :			15.500	12.740		5.483	2.843	*	7.257	5.499				- No submitted data from NPP		

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS		
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)							
44	51	SIBUYAN DPP, Romblon (24 hours operation) (ROMELCO)	1	DALE-PERKINS	0.260	0.130	67,019.820						28-Mar-92	Operational			
			2	DALE-PERKINS	0.260	0.000	0.000							16-Jun-92	Unoperational	Unoperational since 06 January 2015; for generator rotor machining at MRMD; awaiting for spare parts; no tentative date of restoration	
			4	DALE-PERKINS	0.163	0.130	59,030.030							2-May-97	Operational		
			6	CATERPILLAR	0.600	0.400	316.220							16-Feb-05	Operational		
			7	MAN	0.500	0.450	23,275.420							30-Dec-07	Operational		
			8	MAN	0.500	0.400	31,491.120							31-Dec-07	Operational		
			Sub-total			2.283	1.510										
			Total Grid :			3.183	2.410		1.593	0.608	*	0.817	1.593				
NPP	Cantingas Mini-Hydro Corporation		1	Hydro	0.900	0.900								Operational			
			Total Grid :		3.183	2.410									* - No submitted data from NPP		
45	52	BANTON DPP, Romblon (8 hours operation) 4:30AM-6:30AM/5:00PM-11:00PM (ROMELCO)	1	DALE-PERKINS	0.163	0.145	31,873.860						7-Apr-99	Operational			
			2	DALE-PERKINS	0.163	0.145	29,746.740							16-Apr-96	Operational		
			Total :			0.326	0.290		0.176	0.057	0.116	0.114	0.179				
46	53	SAN JOSE DPP, Romblon (12 hours operation) 4:00AM-6:00AM/1:00PM-11:00PM (TIELCO)	1	DALE-PERKINS	0.163	0.130	13,210.640						1-Dec-04	Operational			
			2	DALE-PERKINS	0.163	0.140	45,670.760							1-May-97	Operational		
			3	CATERPILLAR(228kW)	0.228	0.140	22,013.700							1-Jul-07	Operational		
			Total :			0.554	0.410		0.360	0.131	0.259	0.050	0.360				
47	54	CORCUERA DPP, Romblon (16 hours operation) 4:30AM-6:30AM 8:00AM-3:00PM 5:00PM-12:00MN (LGU Corcuera)	2	DALE-PERKINS	0.163	0.130	23,215.000						30-Jan-97	Operational	Economic Shutdown		
			3	MAN	0.500	0.400	21,931.600							20-Apr-07	Operational		
			Total :			0.663	0.530		0.365	0.220	0.245	0.165	0.365				
48	55	CONCEPCION DPP, Romblon (8 hours operation) 4:30AM-7:00AM/5:00PM-10:30PM (LGU Concepcion)	1	DALE-PERKINS	0.163	0.145	32,314.900						11-Mar-97	Operational			
			2	DALE-PERKINS	0.163	0.145	31,522.200							1-Jan-01	Operational		
			Total :			0.326	0.290		0.200	0.070	0.130	0.090	0.200				
D. PALAWAN AREA :																	
Palawan (Mainland) Grid																	
NPP	Palawan Power Generation, Inc. (Puerto Princesa)		1	Bunker	14.000	7.270							2008 & 2010	Operational			
NPP	Palawan Power Generation, Inc. (Narra)		1	Bunker	5.000	4.500							2008 & 2010	Operational			
NPP	DMICI Power Corporation		1	Diesel	31.450	20.880							2013	Operational			
NPP	Delta P		1	Bunker	16.000	13.500							2009	Operational			
Total Palawan (Mainland) Grid :			66.450	46.150													
50	56	EL NIDO DPP, Palawan (24 hours operation) (PALECO) MONARK EQUIPMENT CORP. (RENTAL)	1	PERKINS	0.600	0.000	0.000							1-Mar-15	Unoperational	TPI Genset- on standby awaiting clearance for its commercial operation.	
			2	PERKINS	0.600	0.000	0.000							1-Mar-15	Unoperational	TPI Genset- on standby awaiting clearance for its commercial operation.	
			3	MAN	0.500	0.400	25,082.040							14-Apr-09	Operational		
			4	TIDE POWER	0.675	0.480	17,004.500							10-Sep-09	Operational		
			Sub-total (owned)			1.175	0.880										
			8	CAT-RENTAL	0.500	0.490	2,679.400								1-Apr-14	Operational	Contracted Capacity: 1 MW
			9	CAT-RENTAL	0.544	0.500	62.200								1-Apr-16	Operational	Contract Period: 19 Apr 2016 to 18 Apr 2017
			10	CAT-RENTAL	1.000	0.950	5,948.700								4-May-15	Operational	
			11	CAT-RENTAL	1.000	0.850	7,317.700								4-May-15	Operational	
			Sub-total (rental)			3.044	2.790										
			Total :			4.219	3.670		2.166	1.278	1.530	1.504	2.166				

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'NG DATE	STATUS	REMARKS	
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)						
51	57	TAYTAY DPP, Palawan (24 hours operation) (PALECO) MONARK EQUIPMENT CORP. (RENTAL)	2	DALE-PERKINS	0.260	0.180	40,205.000						20-May-92	Operational		
			3	MAN CXZ	0.500	0.400	30,167.000						4-Jun-09	Operational		
			8	PERKINS	0.545	0.450	143.000						14-Apr-16	Operational		
			Sub-total (owned)		0.760	0.580										
			5	MONARK-RENTAL	0.455	0.450	6,956.000							2-Oct-14	Operational	Contracted Capacity: 0.6 MW
			6	MONARK-RENTAL	0.455	0.450	6,494.000							2-Oct-14	Operational	Contract Period: 02 Apr 2015 to 01 Apr 2016 New Contract: 14 Apr 2016 to 13 Apr 2017
Sub-total:		0.910	0.900													
Total :		1.670	1.480				0.871	0.345	0.602	0.609	0.871					
52	58	SAN VICENTE DPP, Palawan (24 hours operation) (PALECO)	1	DALE-PERKINS(PAL)	0.163	0.120	35,600.810						19-Jan-95	Operational		
			2	CUMPER-LGU	0.300	0.250	6,428.460						23-Dec-14	Operational		
			3	DALE-PERKINS(PAL)	0.260	0.220	75,661.760						22-Apr-02	Operational		
			4	MAN CXZ	0.500	0.400	40,959.030						14-Nov-08	Operational		
Total :		1.223	0.990				0.578	0.246	0.408	0.412	0.578					
53	59	RIZAL DPP, Palawan (24 hours operation) (PALECO)	1	DALE-PERKINS	0.260	0.230	46,504.400						3-Aug-93	Operational		
			2	JOHN DEERE-CUMPER	0.256	0.210	32,960.000						17-Dec-07	Operational		
			3	DALE-PERKINS	0.163	0.130	27,416.750						3-Aug-93	Operational		
Total :		0.979	0.570				0.346	0.166	0.203	0.224	0.346		Unoperational since 16 Feb 2016 due to defective main circuit breaker; burnt out wiring terminal unit under warranty; awaiting for the arrival of circuit breaker ordered from the manufacturer			
Other Islands in Palawan																
54	NPP	Calamian Island Power Corp. (Busuanga) Calamian Island Power Corp. (Coron)	1	Diesel	8.120	7.720							2013	Operational		
			1	Diesel	0.700								2013	Operational		
Total :		8.820	7.720													
55	QTP	Power Source Philippines, Rio Tuba	1	Diesel	1.690	0.590							2010	Operational		
Total :		1.690	0.590													
56	60	CULION DPP, Palawan (24 hours operation) (BISELCO)	1	DALE-PERKINS	0.163	0.150	47,111.840						29-Aug-98	Operational		
			2	DALE-PERKINS	0.260	0.200	73,087.810						12-Dec-92	Operational		
			3	DALE-PERKINS	0.260	0.200	81,687.580						26-Feb-15	Operational		
			4	DALE-PERKINS	0.260	0.200	74,235.250						26-Feb-15	Operational		
			5	FG-WILSON	0.260	0.120	8,075.100						6-Jun-08	Operational		
Total :		1.203	0.870				0.411	0.225	0.269	0.459	0.430					
57	61	LINAPACAN DPP, Palawan (12 hours operation) 12:00NN-12:00MN (BISELCO)	2	VISA-PERKINS	0.054	0.045	20,109.530						19-Sep-02	Operational		
			3	PERKINS	0.105	0.100	13,646.550						17-Sep-11	Operational		
			4	DALE-PERKINS	0.163	0.150	34,142.360						9-Feb-92	Operational		
			Total :		0.322	0.295				0.088	0.031	0.078	0.207	0.099		
58	62	CUYO DPP, Palawan (24 hours operation) (PALECO)	1	MAN-CXZ	0.500	0.400	39,619.590						1-Apr-08	Operational		
			2	MAN-CXZ	0.500	0.400	31,366.020						1-Apr-08	Operational		
			3	MAN-CXZ	0.500	0.400	40,081.850						1-Apr-08	Operational		
			4	MAN-CXZ	0.500	0.400	42,510.820						1-Apr-08	Operational		
Total :		2.000	1.600				1.210	0.410	0.774	0.390	1.210					
59	63	ARACELI DPP, Palawan (16 hours operation) 9:00AM-1:00AM (PALECO)	1	DALE-PERKINS	0.163	0.150	59,670.930						19-Jun-95	Operational		
			2	DALE-PERKINS	0.163	0.150	16,463.250						16-Jul-93	Operational		
			3	DALE-PERKINS	0.260	0.250	43,102.550						9-Feb-92	Operational		
Total :		0.586	0.550				0.156	0.057	0.107	0.394	0.156					

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
64	60	BALABAC DPP, Palawan (8 hours operation) 4:00PM-12:00MN (PALECO)	1	DALE-PERKINS	0.163	0.150	21,248.560						1-Apr-03	Operational	
			2	DALE-PERKINS	0.163	0.150	43,227.980						5-Feb-97	Operational	
			Total :		0.326	0.300		0.165	0.075	0.132	0.135	0.167			
65	61	CAGAYANCILLO DPP, Palawan (8 hours operation) (PALECO)	1	DALE-PERKINS	0.163	0.160	41,756.130						14-Aug-97	Operational	
			Total :		0.163	0.160		0.122	0.036	0.084	0.038	0.122			
66	62	AGUTAYA DPP, Palawan (8 hours operation) 4:00PM-12:00MN (PALECO)	1	DALE-PERKINS	0.163	0.150	4,362.100						20-Dec-10	Operational	
			2	DALE-PERKINS	0.163	0.150	30,133.290						5-Jun-98	Operational	
			Total :		0.326	0.300		0.097	0.034	0.077	0.203	0.097			
II. SPUG - VISAYAS :															
A. WESTERN VISAYAS AREA:															
63	NPP	Bantayan Island Power Corporation	1	Bunker	8.340	4.890							2015	Operational	
Total :					8.340	4.890									
64	QTP	Power Source Philippines (Malapascua, Cebu)	1	Diesel/Solar	1.050	0.930							2014	Operational	
Total :					1.050	0.930									
67	65	GUINTARCAN DPP, Cebu (8 hours operation) 4:00PM-12:00MN (BANELCO)	1	KUMATSU	0.100	0.080	11,333.610						21-Sep-07	Operational	
			2	DALE-PERKINS	0.163	0.120	35,073.070						5-Mar-93	Operational	
			Total :		0.263	0.200		0.120	0.045	0.087	0.080	0.120			
68	66	DOONG DPP, Cebu (8 hours operation) 4:00PM-12:00MN (BANELCO)	1	DALE-PERKINS	0.163	0.114	28,251.940						25-Apr-93	Operational	
			2	DALE-PERKINS	0.163	0.114	29,007.350						25-Apr-93	Operational	
			Total :		0.326	0.228		0.208	0.059	0.092	0.020	0.208			
Siquijor Grid															
69	NPP	Siquijor Island Power Corporation	1	Bunker	6.464	6.464							10-Feb-15	Operational	
Total :					6.464	6.464									
67	69	POWER BARGE 116	1	DALE-PERKINS	0.560	0.000	48,731.010						17-Jun-93	Unoperational	Operations in Siquijor Island was taken over by NPP-SIPCOR last February 10, 2015; Gensets are currently unoperational and cannibalized to repair other gensets of other SPUG plants; Unit 7- TPI Genset
			2	DALE-PERKINS	0.560	0.000	41,205.570						17-Jun-93	Unoperational	
			3	DALE-PERKINS	0.560	0.000	16,674.330						6-Dec-93	Unoperational	
			7	PERKINS	0.600	0.000	3,411.390						1-Dec-13	Unoperational	
			Total :		2.280	0.000		0.000	0.000	0.000	0.000	0.000			
70	68	GIGANTES DPP, Iloilo (8 hours operation) 3:00PM- 11:00PM (IECO III)	1	DALE-PERKINS	0.163	0.114	25,247.510						17-Apr-97	Operational	
			2	DALE-PERKINS	0.163	0.114	21,291.490						23-Aug-07	Operational	
			Total :		0.326	0.228		0.185	0.048	0.134	0.043	0.185			
69	71	CALUYA DPP, Antique (24 hours operation) (ANTECO)	1	DALE-PERKINS	0.163	0.114	40,300.590						21-Sep-92	Operational	
			2	DALE-PERKINS	0.163	0.114	41,911.690						21-Sep-92	Operational	
			5	CUMMINS-STAMFORD	0.364	0.000	5,615.500						8-May-14	Unoperational	Genset owned by LGU - under maintenance
			6	CUMMINS-FILGEN	0.320	0.224	3,349.800						30-May-15	Operational	
			7	CUMMINS-FILGEN	0.320	0.224	2,027.420						30-May-15	Operational	
Total :		1.330	0.676		0.320	0.150	0.188	0.356	0.320						

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

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			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)						
72	B. EASTERN VISAYAS AREA: CAMOTES DPP, Cebu (24 hours operation) (CELCO)		1	MAN B&W	0.300	0.180	155,142.600						8-Feb-88	Operational		
			2	MAN B&W	0.300	0.150	141,627.550						8-Feb-88	Operational		
			3	DALE-PERKINS	0.560	0.300	27,893.160						1-Nov-04	Operational		
			5	MAN CXZ	0.528	0.350	96,945.870						2-Mar-02	Operational		
			6	MAN CXZ	0.500	0.320	65,087.800						2-May-07	Operational		
			7	MAN	0.500	0.390	49,259.600						1-Dec-13	Operational		
				Sub-total			2.688	1.690								
70	73	POWER BARGE 113, Cebu back-up (CELCO)	1	mitsubishi	0.750	0.000	14,942.200						7-Sep-08	Unoperational	Unoperational since 14 March 2016 due to defective turbocharger; tentative date of restoration - 1st week of May 2016	
			2	mitsubishi	0.750	0.450	21,335.900						14-Jul-08	Operational		
			6	PERKINS	0.600	0.450	6,390.530						1-Dec-13	Operational	Unoperational since 20 March 2016 due to erratic vibration; tentative restoration date is on 27 April 2016 (Note: MOR Error - unoperational)	
				Sub-total			2.100	0.900								
			Total-Grid	4.788	2.590				2.001	1.267	1.448	0.589	2.336			
74	71	PILAR DPP, Cebu (18 hours operation) 11:00AM-5:00AM (CELCO)	1	DALE-PERKINS	0.163	0.114	42,497.060						3-Nov-93	Operational		
			2	DALE-PERKINS	0.163	0.114	41,024.420						3-Nov-93	Operational		
			3	DALE-PERKINS	0.250	0.175	38,779.000						13-Dec-04	Operational		
			4	PERKINS	0.410	0.287	786.670						4-Mar-16	Operational		
			Total :	0.986	0.690				0.336	0.090	0.204	0.354	0.380			
75	72	MARIPUPI DPP, Biliran (12 hours operation) 12:00PM-12:00MN (MMPC)	1	DALE-PERKINS	0.163	0.114	46,074.530						26-Sep-94	Operational		
			2	DALE-PERKINS	0.163	0.114	44,234.350						26-Sep-94	Operational		
			3	CUMMINS	0.150	0.105	13,390.610						19-Oct-98	Operational		
			Total :	0.476	0.333				0.206	0.070	0.128	0.127	0.206			
76	73	LIMASAWA DPP, Leyte (12 hours operation) 1:00PM-1:00AM (SOLECO)	1	DALE-PERKINS	0.163	0.120	37,701.980						26-Jul-95	Operational		
			2	DALE-PERKINS	0.163	0.120	21,320.690						24-Jul-02	Operational		
			Total :	0.326	0.240				0.170	0.075	0.119	0.070	0.175			
77	74	ZUMARRAGA DPP, Western Samar (24 hours operation) (SAMELCO II)	1	DALE-PERKINS	0.163	0.114	0.000						14-Jun-94	Operational		
			2	DALE-PERKINS	0.163	0.114	31,064.540						13-Sep-94	Operational		
			3	DALE-PERKINS	0.163	0.114	36,109.200						14-Jun-09	Operational		
			4	PERKINS	0.100	0.070	7,242.180						1-Mar-09	Operational		
			Total :	0.589	0.412				0.300	0.095	0.164	0.112	0.300			
78	75	TAGAPUL-AN DPP, Western Samar (8 hours operation) 4:00PM-12:00MN (SAMELCO I)	1	DALE-PERKINS	0.163	0.114	19,754.290						3-Aug-96	Operational		
			2	DALE-PERKINS	0.100	0.000	0.000						8-Feb-09	Unoperational	Unoperational since 19 June 2014 due to defective injection pump and burnt out stator winding; tentative date of restoration is on 31 April 2016 or upon the availability of TS personnel	
			Total :	0.263	0.114				0.094	0.036	0.072	0.020	0.094			
79	76	ALMAGRO DPP, Western Samar (8 hours operation) 4:00PM-12:00MN (SAMELCO I)	1	PERKINS	0.163	0.114	32,560.280						5-Apr-97	Operational		
			3	DALE-PERKINS	0.100	0.080	10,183.180						18-Sep-09	Operational		
			Total :	0.263	0.194				0.101	0.020	0.063	0.093	0.101			
80	77	STO. NIÑO DPP, Western Samar (8 hours operation)	1	DALE-PERKINS	0.163	0.135	26,617.650						28-Feb-97	Operational		
				Total :	0.163	0.135				0.127	0.038	0.082	0.008	0.135		

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
78	81	SAN ANTONIO DPP, Northern Samar (18 hours operation) 12:00NN-6:00AM (NORSAMELCO)	1	DALE-PERKINS	0.163	0.135	41,064.530						1-Nov-96	Operational	Unoperational on 23 April 2016 due to knocking sound and low lube oil pressure Under maintenance last 27 July 2015 (overdue for PMS).; rotor and stator for rewinding; spare parts still not available. No date of restoration
			2	DALE-PERKINS	0.250	0.174	42,478.900						1-Nov-96	Operational	
			3	DALE-PERKINS	0.163	0.000	0.000						5-Jun-05	Unoperational	
			Total :		0.576	0.309		0.267	0.060	0.154	0.042	0.267			
79	82	CAPUL DPP, Northern Samar (8 hours operation) 4:00PM-12:00MN (NORSAMELCO)	1	DALE-PERKINS	0.163	0.130	32,342.330						1-Jul-95	Operational	
			2	DALE-PERKINS	0.163	0.130	31,513.790						1-Jul-95	Operational	
			Total :		0.326	0.260		0.244	0.080	0.182	0.016	0.244			
80	83	SAN VICENTE DPP, Northern Samar (8 hours operation) 5:00PM-1:00AM (NORSAMELCO)	1	DALE-PERKINS(VIS)	0.163	0.160	26,552.790						26-May-97	Operational	
			2	PERKINS(VIS)	0.100	0.098	11,678.316						12-Mar-09	Operational	
			Total :		0.263	0.258		0.085	0.045	0.066	0.173	0.085			
81	84	BIRI DPP, Northern Samar (12 hours operation) 12:00NN-12:00MN (NORSAMELCO)	1	DALE-PERKINS	0.163	0.114	31,017.750						4-Dec-97	Operational	
			2	DALE-PERKINS	0.163	0.114	37,287.800						6-Dec-97	Operational	
			3	DALE PERKINS	0.163	0.114	17,298.700						12-Aug-09	Operational	
			Total :		0.489	0.342		0.210	0.066	0.153	0.132	0.210			
82	85	BATAG DPP, Northern Samar (6 hours operation) 5:00PM-11:00PM (NORSAMELCO)	1	CUMMINS	0.050	0.049	2,802.100						19-Mar-13	Operational	On-standby; no operation due to damaged distribution line caused by typhoon NONA.
			Total :		0.050	0.049		0.000	0.000	0.000	0.049	0.030			
83	86	BAGONGBANWA DPP, Bohol (8 hours operation) 4:00PM-12:00MN (BOHECO I)	1	PERKINS	0.038	0.027	32,071.000						23-Dec-99	Operational	
			Total :		0.038	0.027		0.0208	0.0042	0.0172	0.0058	0.0212			
84	87	BALICASAG DPP, Bohol (8 hours operation) 4:00PM-12:00MN (BOHECO I)	1	PERKINS	0.038	0.027	32,179.610						23-Dec-99	Operational	
			Total :		0.038	0.027		0.0270	0.0140	0.0269	0.0000	0.0270			
85	88	BATASAN DPP, Bohol (8 hours operation) 4:00PM-12:00MN (BOHECO I)	1	PERKINS	0.056	0.039	34,734.000						23-Dec-99	Operational	
			Total :		0.056	0.039		0.0165	0.0041	0.0121	0.0227	0.0165			
86	89	BILANGBILANGAN DPP, Bohol (4 hours operation) 6:00PM-10:00MN (BOHECO I)	1	PERKINS	0.015	0.011	29,257.000						14-Apr-16	Operational	Existing unit replaced with Perkins engine with 15 KW rated capacity from Pangapasan DPP on 11 April 2016.
			Total :		0.015	0.011		0.0093	0.0024	0.0077	0.0012	0.0093			
87	90	CUAMING DPP, Bohol (8 hours operation) 4:00PM-12:00MN (BOHECO I)	1	PERKINS	0.086	0.060	31,580.500						23-Oct-99	Operational	
			Total :		0.086	0.060		0.0410	0.0160	0.0341	0.0192	0.0410			
88	91	HAMBONGAN DPP, Bohol (4 hours operation) 6:00PM-10:00PM (BOHECO I)	1	PERKINS	0.020	0.014	28,825.700						23-Dec-99	Operational	
			Total :		0.020	0.014		0.0097	0.0035	0.0092	0.0043	0.0099			
89	92	MANITATAO DPP, Bohol (4 hours operation) 6:00PM-10:00PM (BOHECO I)	1	PERKINS	0.038	0.027	28,085.710						23-Dec-99	Operational	
			Total :		0.038	0.027		0.0170	0.0090	0.0169	0.0096	0.0170			

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
93	90	MOCABOC DPP, Bohol (5 hours operation) 6:00PM-11:00PM (BOHECO I)	1	CUMMINS	0.020	0.016	28,913.250				0.0007	0.0153	23-Dec-99	Operational	
				Total :	0.020	0.016		0.0153	0.0042	0.0083					
94	91	PAMILACAN DPP, Bohol (8 hours operation) 4:00PM-12:00MN (BOHECO I)	1	PERKINS	0.056	0.039	32,815.770				0.0122	0.0290	23-Dec-99	Operational	
				Total :	0.056	0.039		0.0270	0.0130	0.0266					
95	92	PANGAPASAN DPP, Bohol (5 hours operation) 6:00PM-11:00PM (BOHECO I)	1	PERKINS	0.038	0.027	22,865.450				0.0136	0.0130	23-Dec-99	Operational	
				Total :	0.038	0.027		0.0130	0.0047	0.0098					
96	93	UBAY DPP, Bohol (5 hours operation) 6:00PM-11:00PM (BOHECO I)	1	KUBOTA	0.012	0.008	7,538.000				0.0035	0.0049	23-Dec-99	Operational	
				Total :	0.012	0.008		0.0049	0.0022	0.0037					
97	94	CABUL-AN DPP DPP, Bohol (6 hours operation) 6:00PM-12:00MN (BOHECO I)	1	CUMMINS	0.064	0.056	4,152.400				0.0013	0.0550	14-Nov-13	Operational	Experienced load shedding due to high demand
				Total :	0.064	0.056		0.0550	0.0260	0.0476					
iii. SPUG - MINDANAO :															
A. WESTERN MINDANAO AREA:															
Basilan Grid															
98	95	BASILAN DPP, Basilan (24 hours operation) (BASELCO)	1	CKD	1.224	0.800	19,873.600						7-Sep-98	Operational	
			4	CUMMINS	0.545	0.430	4,954.300						3-Aug-11	Operational	
			5	CUMMINS	0.545	0.430	7,175.050						3-Aug-11	Operational	
			6	CUMMINS	0.545	0.430	5,834.600						3-Aug-11	Operational	
				Sub-total (owned)	2.859	2.090							25-Sep-13		
		MONARK EQUIPMENT CORP. (RENTAL)	7	CATERPILLAR-RENTAL	1.500	1.000	20,555.000						25-Sep-13	Operational	Contracted Capacity: 2 MW
			8	CATERPILLAR-RENTAL	1.500	1.000	17,513.640						25-Sep-13	Operational	Contract Period: 01 Aug 2015 to 31 Jul 2016
			9	CATERPILLAR-RENTAL	1.500	1.000	22,972.600						25-Sep-13	Operational	Contracted Capacity: 1.5 MW
			13	CATERPILLAR-RENTAL	0.600	0.500	6,027.000						25-Sep-13	Operational	Contract Period: 04 Dec 2015 to 03 Dec 2016
			14	CATERPILLAR-RENTAL	1.000	0.750	1,224.000						24-Feb-16	Operational	Contracted Capacity: 1.5 MW
			15	CATERPILLAR-RENTAL	1.000	0.750	1,136.000						24-Feb-16	Operational	Contract Period: 24 Feb 2016 to 23 Feb 2017
				Sub-total (rental)	7.100	5.000									
				Total :	9.959	7.090									
99		POWER BARGE 119, Basilan (24 hours operation) (BASELCO)	1	DAIHATSU	1.800	1.300	84,938.000						1-Jun-95	Operational	PMS conducted from March 28, 2016 to last April 18, 2016.
			3	DAIHATSU	1.800	1.300	117,988.020						1-Jun-95	Operational	
			4	DAIHATSU	1.800	1.300	113,423.320						1-Jun-95	Operational	
				Sub-total	5.400	3.900									
				Total Basilan Grid :	15.359	10.990		8.449	4.000	5.000	2.541	8.449			

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS			
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)								
96	100	JOLO DPP, Sulu (24 hours operation) (SULECO) MONARK EQUIPMENT CORP. (RENTAL)	1	DAIHATSU	1.800	1.180	146,027.040						1-May-95	Operational				
			3	DAIHATSU	1.800	1.250	155,475.800							2-May-95	Operational			
			Sub-total (owned)			3.600	2.430											
			4	CAT-RENTAL	1.000	0.800	669.460								22-Mar-16	Operational	Contracted Capacity: 3 MW	
			5	CAT	1.500	1.100	6,604.280								22-Oct-08	Operational	Contract Period: 17 Jan 2016 to 16 Jan 2017 (extended)	
			6	CAT	1.500	1.100	13,463.550								26-Dec-12	Operational		
			7	CAT	1.500	1.100	3,194.100								26-Dec-12	Operational	Contracted Capacity: 3 MW	
			8	CAT-RENTAL	1.500	1.100	13,014.350								1-Jun-14	Operational	Contract Period: 25 Jul 2015 to 24 Jul 2016	
			9	CAT-RENTAL	1.500	1.100	8,481.660								1-Jun-14	Operational		
			10	CAT-RENTAL	1.500	1.100	7,856.990								5-Mar-14	Operational		
			11	CAT-RENTAL	0.600	0.000	0.000								1-Jun-14	Unoperational		
			12	CAT-RENTAL	0.600	0.000	0.000								1-Sep-14	Unoperational		
			Sub-total (rental)			11.200	7.400											
Total :			14.800	9.830				8.230	3.300	6.076	1.600	8.230						
97	101	LUUK DPP, Sulu (8 hours operation) 6:00PM-2:00AM (SULECO)	1	CAT	0.175	0.000	0.000							14-Jun-06	Unoperational	Under Preventive Maintenance Schedule; unavailable spare parts; PR still on process; no tentative date of restoration; Note: SULECO requested to stop the operation of Luuk DPP last 10 Oct 2015 due to low collection efficiency		
			3	CUMMINS	0.150	0.140	0.000								14-Jun-06	Operational	On standby; Note: Error data in MOR - dependable capacity	
			Total :			0.325	0.140				0.000	0.000	0.000	0.140	0.000			
98	102	SIASI DPP, Sulu (24 hours operation) (SIASELCO)	3	PERKINS	0.600	0.000	0.000							30-Apr-14	Unoperational	TPI Genset - Unoperational since 11 Feb 2016; under maintenance outage due to mechanical trouble; tentative date of restoration is on 07 May 2016 or upon the arrival of cylinder head at plant site.		
			4	DALE-PERKINS	0.260	0.000	0.000								1-Oct-91	Unoperational	Unoperational since 12 Feb 2016 due to moisture in the generator; tentative date of restoration is on 07 May 2016 after rewinding the exciter rotor.	
			5	MAN - DIESEL	0.500	0.380	31,180.590								24-May-08	Operational		
			6	MAN-DIESEL	0.500	0.380	31,329.910								25-May-08	Operational		
			Total :			1.860	0.760				0.680	0.200	0.460	0.080	0.680			
			Tawi-Tawi (Mainland) Grid															
99	103	BONGAO DPP, Tawi-Tawi (24 hours operation) (TAWELCO) MONARK EQUIPMENT CORP. (RENTAL)	3	PERKINS	0.544	0.000	7,035.750							6-Feb-09	Unoperational	Dilution of oil water in the crankcase; for inspection of MMTSD personnel; no tentative date of restoration; PR still on process		
			4	PERKINS	0.544	0.350	10,397.900								7-Feb-09	Operational		
			Sub-total (owned)			1.088	0.350											
			5	CAT-RENTAL	1.000	1.100	2,402.000									1-Apr-16	Operational	Contracted Capacity: 1.5 MW
			6	CAT-RENTAL	1.000	0.450	2,255.000									1-Apr-16	Operational	Contract Period: 29 Mar 2015 to 28 Sep 2016 (extended) Note: Error in MOR - Rated & Dep Capacity
Sub-total (rental)			2.000	1.550														
Total			3.088	1.900														
99	104	POWER BARGE 108, Tawi-Tawi (24 hours operation) (TAWELCO)	1	DAIHATSU	1.800	1.100	88,938.800							1-Mar-92	Operational			
			2	DAIHATSU	1.800	1.100	48,752.000								1-Mar-92	Operational	Unit was declared under maintenance due to crankpin journal bearing seizure.	
			3	DAIHATSU	1.800	1.100	93,443.900								1-Mar-92	Operational	For commissioning test after the in-house major PMS.	
			Sub-total			5.400	3.300											
			Total Bongao Grid :			8.488	5.200				3.440	2.000	2.648	1.760	3.760			

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

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			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
105	BALIMBING DPP, Tawi-Tawi (16 hours operation) Weekdays 2:00 PM-6:00AM Weekends 12:00NN-4:00AM (TAWELCO)	1	DALE-PERKINS	0.163	0.140	25,917.620						13-Jan-97	Operational		
		2	DALE-PERKINS	0.163	0.140	25,255.000						1-Jul-98	Operational		
		3	CUMMINS	0.150	0.130	3,954.380						12-Oct-11	Operational		
		4	CUMMINS	0.250	0.180	6,405.000						4-Mar-11	Operational		
		Total :		0.726	0.590		0.210	0.100	0.139	0.380	0.210				
106	TANDUBAS DPP, Tawi - Tawi (8 hours operation) From 4:00PM-12:00MN (TAWELCO)	3	CUMMINS	0.150	0.145	12,558.790						6-Aug-09	Operational		
		Total :		0.150	0.145		0.136	0.078	0.108	0.009	0.144				
107	SIBUTU DPP, Tawi-Tawi (8 hours operation) From 4:00PM-12:00MN (TAWELCO)	1	DALE-PERKINS	0.163	0.140	38,237.470						2-Nov-98	Operational		
		2	DALE-PERKINS	0.163	0.140	25,463.910						12-Apr-03	Operational		
		Total :		0.326	0.280		0.280	0.085	0.187	0.000	0.280				
108	SITANGKAY DPP, Tawi-Tawi (8 hours operation) 6:00PM-2:00AM (TAWELCO)	1	CUMMINS	0.280	0.200	1,957.100						19-Aug-09	Operational	On-standby genset	
		3	PERKINS 2800	0.544	0.450	3,035.210						27-Feb-10	Operational		
		Total :		0.824	0.650		0.328	0.172	0.250	0.322	0.328				
109	MANUK-MANGKAW DPP, Tawi Tawi (6 hours operation) 6:00PM-12:00MN (TAWELCO)	1	DALE-PERKINS	0.163	0.150	37,115.800						14-Jul-97	Operational		
		Total :		0.163	0.150		0.100	0.040	0.095	0.050	0.100				
110	WEST SIMUNUL DPP, Tawi-Tawi (8 hours operation) 4:00PM-12:00MN (TAWELCO)	2	CUMMINS-2	0.250	0.215	7,186.490						10-Aug-09	Operational		
		3	DALE-PERKINS	0.260	0.250	51,145.280						25-Sep-02	Operational		
		4	PERKINS	0.163	0.150	8,096.510						30-Mar-11	Operational		
		Total :		0.673	0.615		0.300	0.160	0.229	0.315	0.300				
111	CAG DE TAWI? DPP, Tawi-Tawi (8 hours operation) 6:00PM-2:00AM (CASELCO)	1	DALE-PERKINS	0.260	0.200	385,565.000						26-Sep-92	Operational		
		2	DALE-PERKINS	0.260	0.000	0.000						26-Sep-92	Unoperational	Defective exciter housing bracket/alternator, for rewinding but lacking of mechanical parts. No date of restoration	
		3	MAN	0.500	0.450	51,439.000						16-Oct-08	Operational		
		Total :		1.020	0.650		0.430	0.275	0.356	0.220	0.430				
112	TANDUBANAK DPP, Tawi-Tawi (8 hours operation) 5:00PM-1:00AM (TAWELCO)	1	Cummins	0.275	0.150	8,168.000						22-Aug-09	Operational		
		2	CUMMINS	0.160	0.110	6,036.000						22-Aug-09	Operational		
		Total :		0.435	0.260		0.150	0.050	0.096	0.110	0.188				
113	SACOL DPP, Zamboanga (8 hours operation) 4:00PM-12:00MN (ZAMCELCO)	1	CUMMINS	0.150	0.135	17,059.400						6-Sep-08	Operational		
		2	PERKINS	0.080	0.080	224.000						2-Apr-16	Operational		
		Total :		0.150	0.135		0.087	0.046	0.072	0.048	0.087				

SMALL POWER UTILITIES GROUP
POWER PLANTS/POWER BARGES OPERATIONAL REPORT FOR EXISTING AREAS
As of April 25, 2016

Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS		
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)							
B. EASTERN MINDANAO AREA:																	
<u>Dinagat Grid</u>																	
109	114	DINAGAT DPP, Dinagat (24 hours operation) (DIELCO)	1	MAN	0.500	0.380	25,240.590					22-Sep-09	Operational				
			2	MAN	0.500	0.380	24,323.320					22-Sep-09	Operational				
			3	CUMPER-PERKINS	0.275	0.190	36,666.020						27-Feb-05	Operational			
			4	CUMPER	0.275	0.190	40,130.880						17-Jul-05	Operational			
			5	CUMPER	0.275	0.190	36,955.380						25-Nov-04	Operational			
			6	CUMPER	0.275	0.195	3,805.580						24-Nov-04	Operational			
			7	CUMPER	0.275	0.195	40,297.160						17-Jul-05	Operational			
			Sub-total (owned)			2.375	1.720										
			9	CAT-RENTAL	0.680	0.550	4,735.500							1-Dec-14	Operational	Contracted Capacity: 2 MW	
			11	CAT-RENTAL	0.680	0.550	8,802.300							1-Dec-14	Operational	Contract Period: 03 Feb 2015 to 02 Aug 2016 (extended)	
			12	CAT-RENTAL	1.000	0.750	926.500							1-Dec-14	Operational		
			13	CAT-RENTAL	0.600	0.455	927.800							1-Jan-15	Operational		
			14	CAT-RENTAL	1.000	0.850	8,802.300							1-Mar-16	Operational		
			Sub-total (rental)			3.960	3.155										
Total			6.335	4.875													
115	115	LORETO DPP, Dinagat Back-Up/On Standby (DIELCO)	3	MANS	0.500	0.380	12,838.970						6-Oct-07	Operational			
			Sub-total			0.500	0.380										
			Total Dinagat Grid :			6.835	5.255		2.824	1.461	1.830	2.431	3.063				
110	116	HIKDOP DPP, Surigao del Norte (7 hours operation) 5:00PM-12:00MN (SURNECO)	1	DALE-PERKINS	0.163	0.155	38,167.510						5-Sep-93	Operational			
			2	CUMMINS	0.120	0.106	7,264.720							6-Oct-10	Operational		
			Total :			0.283	0.261		0.111	0.040	0.083	0.150	0.112				
111	117	KALAMANSIG DPP, Sultan Kudarat (24 hours operation) (SUKELCO)	1	FG WILSON, PERKINS	0.600	0.400	22,428.000						12-Jul-09	Operational			
			3	PERKINS	0.600	0.400	14,760.000							5-May-11	Operational		
			5	DALE PERKINS	0.260	0.180	94,841.000							1-Mar-97	Operational		
			6	PERKINS	0.560	0.350	62,068.000							11-Jul-09	Operational		
			7	DALE-PERKINS	0.260	0.000	0.000								1-Apr-97	Unoperational	Unoperational due to defective generator stator; for PR processing; no tentative date of restoration.
			Sub-total (owned)			2.280	1.330										
			9	KOMATSU	0.320	0.250	17,180.000								21-Aug-13	Operational	Contracted Capacity: 1 MW
			10	KOMATSU	0.320	0.250	19,489.000								21-Aug-13	Operational	Contract Period: 23 Mar 2016 to 22 Mar 2017
			11	KOMATSU	0.320	0.250	19,908.000								21-Aug-13	Operational	
			12	KOMATSU	0.320	0.250	16,728.000								21-Aug-13	Operational	Contracted Capacity: 1 MW
			13	KOMATSU	0.320	0.250	7,643.000								20-Jul-15	Operational	Contract Period: 31 Mar 2016 to 30 Mar 2017
			14	KOMATSU	0.320	0.250	18,847.000								20-Jul-15	Operational	
			15	KOMATSU	0.320	0.250	2,014.000								24-Jan-16	Operational	Contracted Capacity: 0.5 MW
			16	KOMATSU	0.320	0.250	2,064.000								24-Jan-16	Operational	Contract Period: 25 Apr 2016 to 24 Oct 2016
			17	MONARK-RENTAL	0.910	0.700	387.000								31-Mar-16	Operational	
			18	MONARK-RENTAL	0.455	0.300	1,914.000								31-Mar-16	Operational	
			19	MONARK-RENTAL	0.910	0.700	517.000								31-Mar-16	Operational	
			Sub-total (rental)			4.835	3.700										
			Total :			7.115	5.030		3.190	1.672	2.100	1.840	3.190				
112	118	NINOY AQUINO DPP, Sultan Kudarat (14 hours operation) From 09:00AM-11:00PM (SUKELCO)	1	DALE-PERKINS	0.163	0.145	45,874.480							27-Mar-98	Operational		
			2	DALE-PERKINS	0.260	0.180	51,914.150								22-Mar-98	Operational	
			3	PERKINS	0.260	0.180	46,085.680								11-May-11	Operational	
			4	PERKINS	0.163	0.145	45,443.940								1-Feb-15	Operational	
			Total :			0.846	0.650		0.645	0.250	0.404	0.005	0.649				

SMALL POWER UTILITIES GROUP
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Grid No.	Plant No.	PLANT, PROVINCE (Operating Hours) Time of Operation (Distribution Utility)	GENSETS PARTICULARS				ACCUMULATED RUNNING HOURS	SYSTEM DEMAND			GROSS RESERVE (DEFICIENCY)	MAXIMUM SYSTEM DEMAND (2016)	COMM'SNG DATE	STATUS	REMARKS
			UNIT NO.	MAKE	RATED (MW)	DEP. (MW)		MAX (MW)	MIN (MW)	AVE (MW)					
119	PALIMBANG DPP, Sultan Kudarat (8 hours operation) 3:00PM-11:00PM (SUKELCO)		1	DALE-PERKINS	0.163	0.150	40,369.780						28-Apr-99	Operational	
			2	Cummins	0.275	0.200	6,977.040						21-Dec-10	Operational	
			3	DALE-PERKINS	0.260	0.000	0.000						12-May-13	Unoperational	Unoperational since 12 Feb 2016 due to broken small end bush of connecting rod. For overhauling but spare parts are unavailable; date of restoration - upon the availability of spare parts; PR still on process
			Total :	0.698	0.350		0.341	0.114	0.253	0.009	0.341				
120	BALUT DPP, Davao del Sur (16 hours operation) 12:00NN-4:00AM (DASURECO)		1	DALE-PERKINS	0.163	0.160	27,579.530						27-Sep-97	Operational	
			2	DALE-PERKINS	0.163	0.160	25,111.170						16-Jan-98	Operational	
			3	DALE-PERKINS	0.163	0.160	48,406.410						11-Nov-15	Operational	
				Total :	0.489	0.480		0.170	0.060	0.108	0.310	0.172			
121	TALICUD DPP, Davao del Norte (16 hours operation) 12:00NN-4:00AM (DANECO)		1	DALE-PERKINS	0.163	0.145	41,179.620						26-Aug-96	Operational	
			2	DALE-PERKINS	0.163	0.145	29,748.850						26-Aug-96	Operational	
			3	DALE-PERKINS	0.260	0.190	44,858.270						18-Dec-91	Operational	
				Total :	0.586	0.480		0.266	0.100	0.170	0.214	0.282			

SUMMARY (EXISTING POWER PLANT AND BARGES) :

SMALL POWER UTILITIES GROUP	NO. OF PLANTS	SYSTEM DEMAND					NET RESERVE
		RATED	DEP.	MAX	MIN	AVE	
TOTAL LUZON	221	108.117	77.233	62.349	29.965	29.750	29.504
Land-Based	61	92.059	72.082				
Power Barge	3	12.000	1.450				
Mini-Grid	3	0.524	0.496				
Wind	1	0.180	0.000				
Hydro	1	1.800	1.800				
PRES	152	1.554	1.405				
TOTAL VISAYAS	45	15.570	8.287	5.657	2.486	3.845	2.629
Land-Based	29	10.184	6.709				
Power Barge	2	4.380	0.900				
Mini-Grid	14	1.006	0.677				
TOTAL MINDANAO	24	62.151	42.901	30.367	14.203	20.662	12.534
Land-Based	22	51.351	35.701				
Power Barge	2	10.800	7.200				
TOTAL PHILIPPINES	290	185.838	128.421	98.374	46.654	54.257	44.667

Note: Min is greater than Ave due to unavailability of data from some NPPs (as stated above)