VOLUME OF BUSINESS

2016-2018

Rod Padua
Department Manager
Corporate Planning Office

PHYSICAL REQUIREMENTS

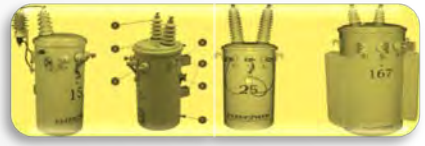
POLES

SUB-STATIONS

CONDUCTORS

KWH-METERS

DX-TRANSFORMERS



LOGISTICS

e

enhanced

Integrated Computerized Planning Model

LOAD FORECAST

FINANCIAL

TECHNICAL

INSTITUTIONAL

- is a homegrown software designed to integrate and harmonize data as required from the ECs by the energy sector
- uses a MS Office Platform and Visual Basic
- User-friendly, 3 department managers & the load forecaster can input separately at the same time (4 laptops), then “link” everything later on.

e-ICPM Process

- subjected to a thorough deliberation by key NEA decision makers and topic experts
- made official through an EC Board Resolution “adopting the e-ICPM and the contents therein”
- cascades the workplan for implementation by the EC workforce

From ICPM to eICPM...

- The ICPM is continuously being *enhanced* with numerous improvements through the years, hence the "e" in the eICPM.

- Forecasting from system-wide to per substation
- Annual Workplan has been extended to a Biennial (2 years) Workplan
- Financial projections from 10 years to 15 years
- Different templates for off-grid and on-grid ECs
- Provisions for Over/Under Recoveries

NATIONAL ELECTRIFICATION ADMINISTRATION
"The 1st Performance Governance System-Institutionalized National Government Agency"
57 NIA Road, Government Center, Diliman, Quezon City 1100

February 11, 2015

MEMORANDUM No. 2015-001

TO : ALL ELECTRIC COOPERATIVES

SUBJECT : ENHANCED INTEGRATED COMPUTERIZED PLANNING MODEL (eICPM)

In 2003, pursuant to its additional mandate under Section 58 (b) of R. A. 9136 to strengthen the technical capability and financial viability of the electric cooperatives (ECs), the National Electrification Administration (NEA) instituted certain reforms, which include the adoption by the ECs of the Integrated Computerized Planning Model (ICPM) in the preparation of their annual capital expenditures (CAPEX) projects and programs, structural and/or institutional development.

In 2010, the ICPM was further enhanced under the Electric Cooperative Distribution Utility Planning (EC-DUP) Manual, which was approved by the Energy Regulatory Commission (ERC) under Resolution No. 26-S-2009 entitled "Amending the Rules for the Approval of Regulated Entities' Capital Expenditures (CAPEX) Projects". The enhanced model is known as the enhanced Integrated Computerized Planning Model (eICPM), the literature of which is attached.

In essence, the eICPM provides the necessary guidance in determining the financial and technical requirements of a particular EC. Each component of the eICPM, including the annual work plan, undergoes a rigid scrutiny and involves rigorous and interactive deliberations by the Technical Working Group (TWG) created by NEA before the eICPM is approved by certain officers of the NEA. Each component of the eICPM is reviewed and updated periodically to keep pace with the various requirements of the ECs.

In 2013, in order to further enhance the efficacy of the eICPM, the TWG recommended the adoption of the Biennial Work Plan, as a key component of the eICPM. Although the eICPM is broader in scope, it constitutes as an essential reference to the CAPEX Plan Application being filed by the ECs with the ERC.

In view of the foregoing premises and in line with the powers and functions of NEA under Section 5 of R.A.10531, it shall be mandatory for all ECs to submit their respective eICPM within sixty (60) days after the conduct of the eICPM workshop to NEA, through the Corporate Planning Office, for evaluation, review and approval. The compliance on the submission of the eICPM shall be considered in determining the overall performance of the ECs for purposes of granting awards and incentives.

mandatory

Please be guided accordingly.

EDITA S. BUENO
Administrator

NATIONAL ELECTRIFICATION ADMINISTRATION
NEA-OA214145
2/16/15

(02) 929-1909
www.nea.gov.ph

"Energizing the Countryside, Electrifying the Future"

ERC is inclined to use the eICPM as *the* tool to evaluate the ECs' CaPex Plans filed with the Commission

Validity and Accuracy Test

- Objective: To meet the ERC-required MAPE* of 5%, using mathematical expressions or models in forecasting

* Mean Average Percentage Error

The previously-used simple historical trending as a forecasting method is not allowed anymore

SUMMARY OF FORECASTED MODEL (FORECASTED TOTAL SALES)

MODEL NO.	FORECASTING MODEL	MODEL DESCRIPTIONS	VALIDITY TEST					ACCURACY TEST	AVERAGE GROWTH RATE			Remarks	9 MODEL PASSED
			R^2 (>0.99)	Adjusted R^2 (>0.99)	Coefficient Value	T-Statistic (>2 or <-2)	P-Value (<0.1)	MAPE (<3%)	Actual Data	1st 5 Year Forecast	6th-15th Year Forecast		SUMMARY
1	Y = at + b	Linear Trending	0.985	0.981	b 3,446.3770	16.13	0.000	1.56%	8.59%	6.06%	4.21%	Failed	SAVE
					a 29,678.8479	35.66	0.000						
2	Y = bt + a	Linear Trending with Horizon	0.995	0.994	b 3,446.3770	64.51	0.000	1.56%	8.59%	6.06%	4.21%	Passed	
					a 29,678.8480	63.73	0.000						
3	Y = blnt + a	Linear & Logarithmic Trending	0.889	0.862	b 9,246.6161	5.67	0.005	4.58%	8.59%	2.23%	1.06%	Failed	
					a 31,601.8658	15.48	0.000						
4	Y = blnt + a	Linear & Logarithmic Trending with Horizon	0.348	0.185	b 22,210.4358	5.01	0.007	18.03%	8.59%	4.16%	1.81%	Failed	
					a 19,821.6518	2.74	0.052						
5	$Y = et^{-1} + bt + a$	Linear Trending with Smoothing	0.989	0.982	e 2,845.6064	1.09	0.355	1.04%	8.59%	6.61%	4.49%	Failed	
					b 3,865.0877	8.84	0.003						
					a 27,051.4047	10.64	0.002						
6	$Y = et^{-1} + bt + a$	Linear Trending with Smoothing & Horizon	0.996	0.993	e 851.0724	0.53	0.634	1.45%	8.59%	6.10%	4.23%	Failed	
					b 3,470.6499	46.47	0.000						
					a 29,229.5454	29.43	0.000						
7	$Y = et^{-1} + blnt + a$	Linear & Logarithmic Trending with Smoothing	0.981	0.968	e 25,601.1841	3.77	0.033	1.49%	8.59%	3.97%	1.88%	Failed	
					b 20,985.1513	6.53	0.007						
					a 8,276.2536	1.32	0.278						
8	$Y = et^{-1} + blnt + a$	Linear & Logarithmic Trending with Smoothing & Horizon	0.902	0.837	e 67,008.8788	5.16	0.014	7.44%	8.59%	6.50%	2.83%	Failed	
					b 41,999.9469	9.73	0.002						
					a (31,294.4092)	(3.00)	0.058						
9	$Y = ct^2 + bt + a$	Quadratic Trending	0.990	0.983	c 169.0215	1.23	0.308	1.15%	8.59%	8.51%	7.19%	Failed	
					b 2,263.2265	2.30	0.105						
					a 31,256.3819	20.74	0.000						
10.0	$Y = ct^2 + bt + a$	Quadratic Trending with Horizon	0.995	0.992	c 1.2705	0.09	0.936	1.56%	8.59%	6.06%	4.22%	Failed	
					b 3,416.8370	9.89	0.002						
					a 29,759.5272	27.74	0.000						
11	$Y = c(lnt)^2 + blnt + a$	Quadratic & Logarithmic Trending	0.986	0.977	c 5,744.4382	4.58	0.020	8.59%	8.59%	5.01%	2.69%	Failed	
					b (1,025.7278)	(0.44)	0.691						
					a 33,856.8166	34.98	0.000						
12	$Y = c(lnt)^2 + blnt + a$	Quadratic & Logarithmic Trending with Horizon	0.980	0.970	c 9,637.6077	13.95	0.000	3.40%	8.59%	6.66%	3.44%	Passed	
					b (7,480.6789)	(3.30)	0.030						
					a 34,924.4331	21.04	0.000						
13	$Y = ct^2 + a$	Quadratic Trending	0.972	0.965	c 478.8504	11.83	0.000	2.06%	8.59%	12.31%	10.27%	Failed	
					a 34,478.6027	43.73	0.000						
14	$Y = ct^2 + a$	Quadratic Trending with Horizon	0.838	0.797	c 143.5622	11.00	0.000	8.48%	8.59%	4.96%	6.10%	Failed	
					a 39,446.3794	18.02	0.000						
15	$Y = c(lnt)^2 + a$	Quadratic & Logarithmic Trending	0.985	0.982	c 5,217.3056	16.37	0.000	1.21%	8.59%	4.79%	2.57%	Passed	
					a 33,558.7746	54.50	0.000						
16	$Y = a(lnt)^2 + b$	Quadratic & Logarithmic Trending with Horizon	0.934	0.917	c 7,490.2536	17.38	0.000	6.21%	8.59%	6.18%	3.12%	Failed	
					a 30,369.8783	17.92	0.000						
17	$Y = et\text{-}1 + ct^2 + bt + a$	Quadratic Trending with Smoothing	0.990	0.975	e 182.8102	0.02	0.983	1.14%	8.59%	8.42%	7.07%	Failed	
					c 159.8810	0.39	0.736						
					b 2,354.1093	0.60	0.610						
					a 31,002.2758	2.91	0.100						

PHYSICAL REQUIREMENTS

POLES

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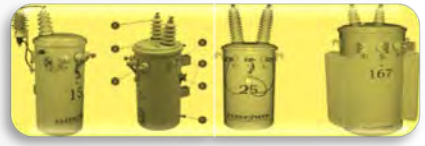
DX-TRANSFORMERS



LOGISTICS

PHYSICAL REQUIREMENTS

NATIONAL

POLES*

CATEGORY	2016	2017	2018	TOTAL
25’	2,843	1,276	1,126	5,245
30’	9,553	5,146	3,966	18,665
35’	11,001	4,139	3,431	18,571
40’	4,601	1,412	1,050	7,063
45’	2,724	639	411	3,774
TOTAL	**30,722**	**12,612**	**9,984**	**53,318**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

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LUZON				
POLES *				
CATEGORY	**2016**	**2017**	**2018**	**TOTAL**
25’	1,079	220	120	**1,419**
30’	4,317	2,389	1,345	**8,051**
35’	6,556	2,564	2,051	**11,171**
40’	1,961	525	424	**2,910**
45’	1,189	138	88	**1,415**
TOTAL	**15,102**	**5,836**	**4,028**	**24,966**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

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VISAYAS

POLES *

CATEGORY	2016	2017	2018	TOTAL
25’	745	888	841	2,474
30’	1,952	1,279	1,130	4,361
35’	2,252	1,257	1,056	4,565
40’	1,724	668	404	2,796
45’	735	387	208	1,330
TOTAL	**7,408**	**4,479**	**3,639**	**15,526**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

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MINDANAO

POLES *

CATEGORY	2016	2017	2018	TOTAL
25’	1,019	168	165	1,352
30’	3,284	1,478	1,491	6,253
35’	2,193	318	324	2,835
40’	916	219	222	1,357
45’	800	114	115	1,029
TOTAL	**8,212**	**2,297**	**2,317**	**12,826**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

PHYSICAL REQUIREMENTS

NATIONAL

POLES ►Buffer Stock

CATEGORY	2016	2017	2018	TOTAL
25’	1,724	1,191	1,056	3,971
30’	5,131	3,207	2,430	10,768
35’	8,284	3,829	3,186	15,299
40’	3,547	1,134	925	5,606
45’	2,289	470	410	3,169
TOTAL	**20,975**	**9,831**	**8,007**	**38,813**

PHYSICAL REQUIREMENTS

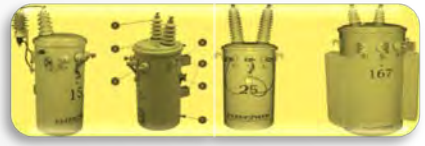
POLES

SUB-STATIONS

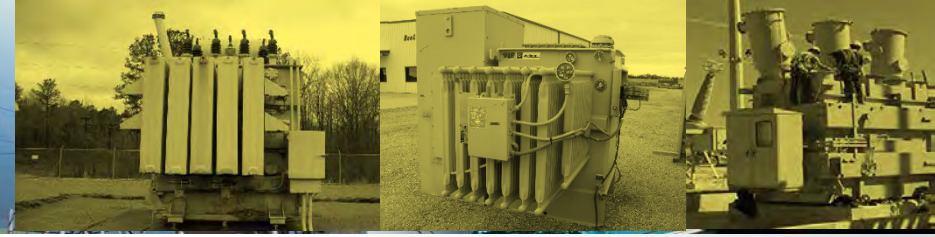
CONDUCTORS

KWH-METERS

DX-TRANSFORMERS



LOGISTICS

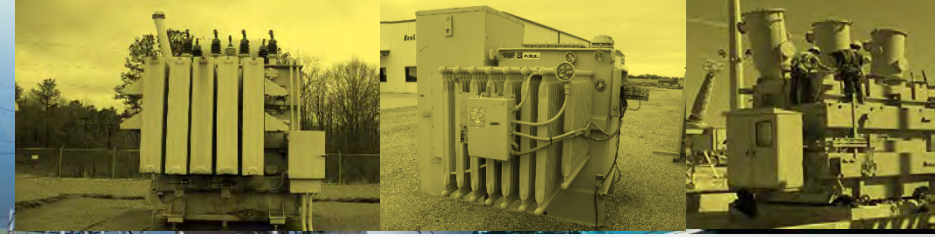


PHYSICAL REQUIREMENTS

NATIONAL

SUB-STATIONS

CATEGORY	2016	2017	2018	TOTAL
0.833 MVA		3		3
5 MVA	25	3		28
10 MVA	18	4	1	23
15 MVA	1			1
20 MVA	4			4
TOTAL	**48**	**10**	**1**	**59**



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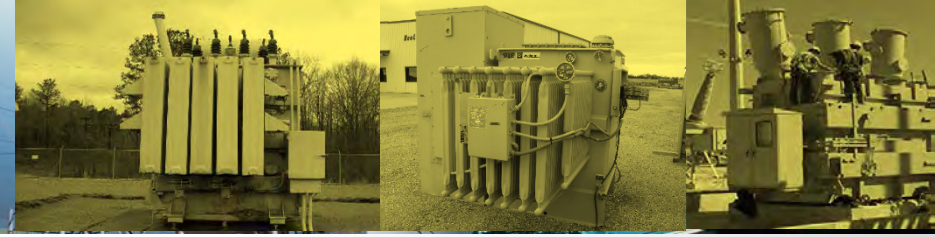
LUZON

SUB-STATIONS

CATEGORY	2016	2017	2018	TOTAL
0.833 MVA		3		3
5 MVA	8	1		9
10 MVA	12	3	1	16
15 MVA	1			1
20 MVA	2			2
TOTAL	**23**	**7**	**1**	**31**



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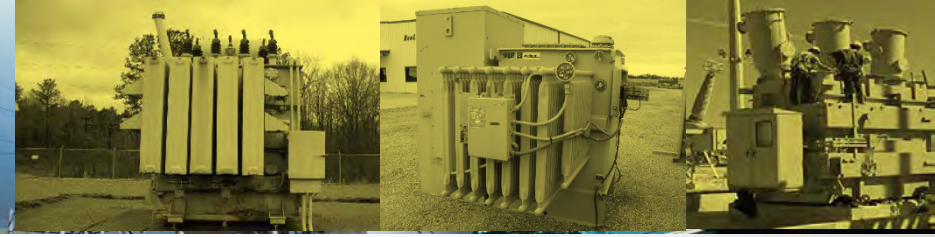
VISAYAS

SUB-STATIONS

CATEGORY	2016	2017	2018	TOTAL
0.833 MVA				
5 MVA	8	2		10
10 MVA	5			5
15 MVA				-
20 MVA	1			1
TOTAL	**14**	**2**		**16**



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MINDANAO

SUB-STATIONS

CATEGORY	2016	2017	2018	TOTAL
0.833 MVA				-
5 MVA	9			9
10 MVA	1	1		2
15 MVA				-
20 MVA	1			1
TOTAL	**11**	**1**	**-**	**12**

PHYSICAL REQUIREMENTS

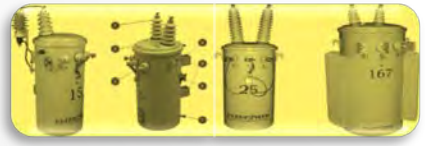
POLES

SUB-STATIONS

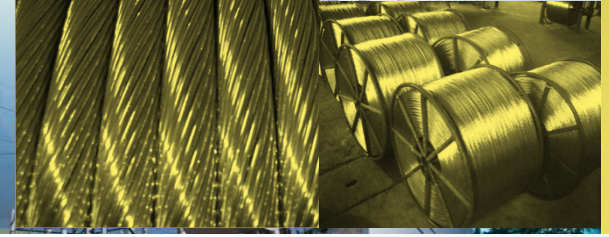
CONDUCTORS

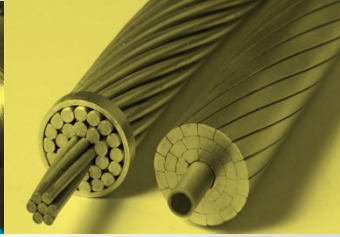
KWH-METERS

DX-TRANSFORMERS



LOGISTICS





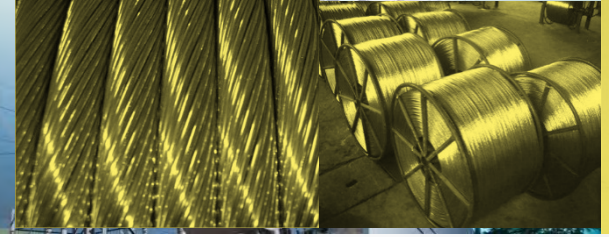
PHYSICAL REQUIREMENTS

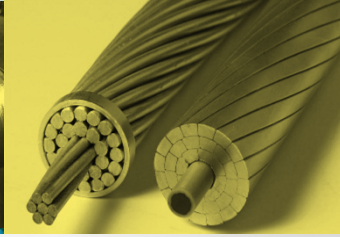
NATIONAL

CONDUCTORS (meters)*

CATEGORY	2016	2017	2018	TOTAL
#2 ACSR	949,059	343,551	324,569	1,617,179
#4 ACSR	216,412	199,198	184,729	600,339
#6 ACSR	12,067,295	4,866,268	4,563,131	21,496,694
TOTAL	**13,232,766**	**5,409,017**	**5,072,429**	**23,714,212**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)





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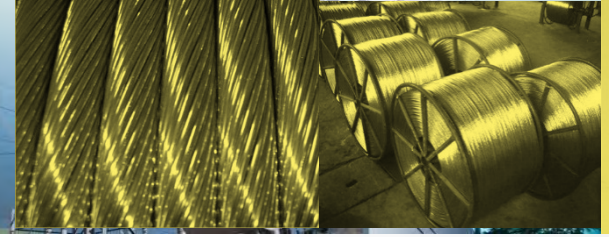
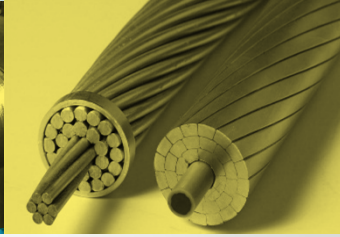
LUZON				
CONDUCTORS (meters) *				
CATEGORY	**2016**	**2017**	**2018**	**TOTAL**
#2 ACSR	356,789	163,636	155,975	**676,400**
#4 ACSR	119,930	28,560	22,212	**170,702**
#6 ACSR	5,661,990	1,737,891	1,607,108	**9,006,989**
TOTAL	**6,138,709**	**1,930,087**	**1,785,295**	**9,854,091**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)





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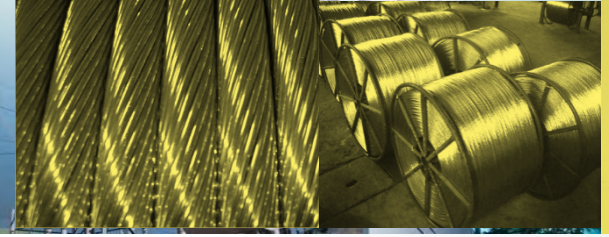
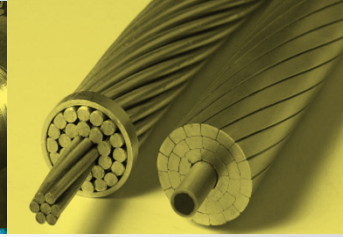
VISAYAS

CONDUCTORS (meters) *

CATEGORY	2016	2017	2018	TOTAL
#2 ACSR	347,512	99,100	85,100	531,712
#4 ACSR	15,282	87,800	77,000	180,082
#6 ACSR	1,823,575	2,675,703	2,523,157	7,022,435
TOTAL	**2,186,369**	**2,862,603**	**2,685,257**	**7,734,229**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)





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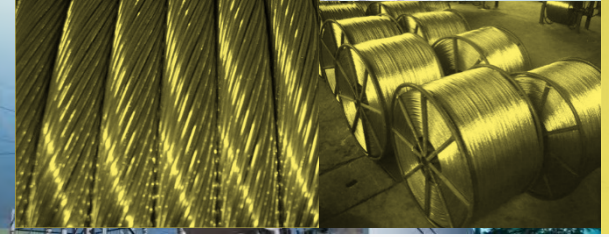
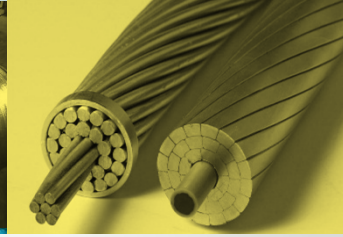
MINDANAO

CONDUCTORS (meters) *

CATEGORY	2016	2017	2018	TOTAL
#2 ACSR	244,758	80,815	83,494	409,067
#4 ACSR	81,200	82,838	85,517	249,555
#6 ACSR	4,581,730	452,674	432,866	5,467,270
TOTAL	**4,907,688**	**616,327**	**601,877**	**6,125,892**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)





PHYSICAL REQUIRMENTS

NATIONAL

CONDUCTORS(meters) ►Buffer Stock

CATEGORY	2016	2017	2018	TOTAL
#2 ACSR	318,130	171,087	153,970	643,187
#4 ACSR	139,400	123,638	112,517	375,555
#6 ACSR	383,687	763,142	752,786	1,899,615
TOTAL	**841,217**	**1,057,867**	**1,019,273**	**2,918,357**

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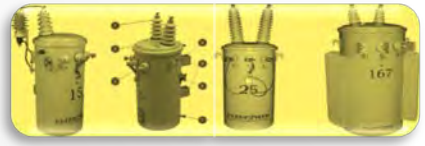
POLES

SUB-STATIONS

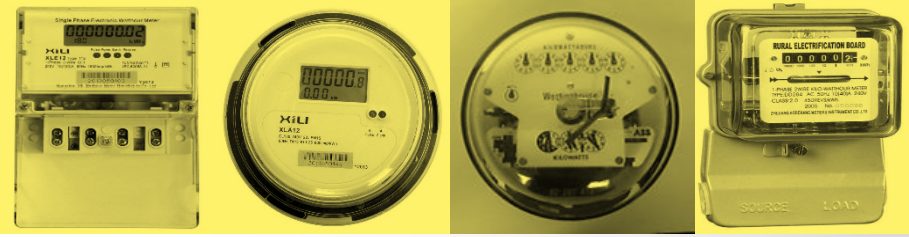
CONDUCTORS

KWH-METERS

DX-TRANSFORMERS



LOGISTICS



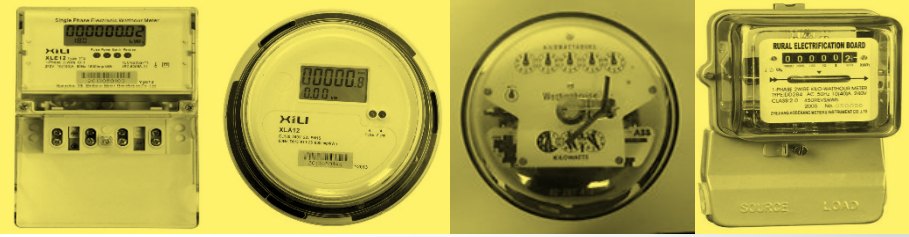
PHYSICAL REQUIREMENTS

NATIONAL

KWH-MTRS *

CATEGORY	2016	2017	2018	TOTAL
3 PHASE (HV)	7,664	1,247	1,241	10,152
1 PHASE (LV)	606,583	433,213	392,387	1,432,183
TOTAL	**614,247**	**434,460**	**393,628**	**1,442,335**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)



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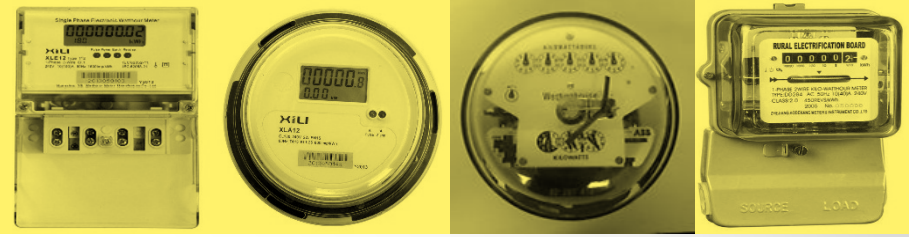
LUZON				
KWH-MTRS *				
CATEGORY	**2016**	**2017**	**2018**	**TOTAL**
3 PHASE (HV)	4,516	566	546	5,628
1 PHASE (LV)	316,006	178,887	146,585	641,478
TOTAL	**320,522**	**179,453**	**147,131**	**647,106**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)



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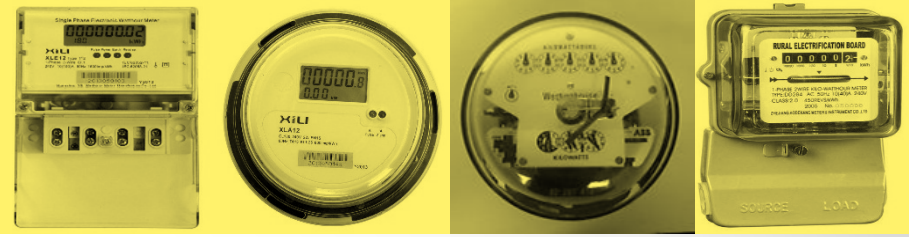
VISAYAS

KWH-MTRS *

CATEGORY	2016	2017	2018	TOTAL
3 PHASE (HV)	1,165	195	195	1,555
1 PHASE (LV)	181,670	155,971	144,463	482,104
TOTAL	**182,835**	**156,166**	**144,658**	**483,659**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)



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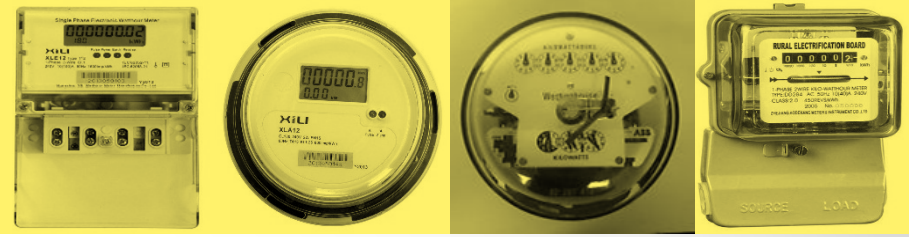
MINDANAO

KWH-MTRS *

CATEGORY	2016	2017	2018	TOTAL
3 PHASE (HV)	1,983	486	500	2,969
1 PHASE (LV)	108,907	98,355	101,339	308,601
TOTAL	**110,890**	**98,841**	**101,839**	**311,570**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)



PHYSICAL REQUIRMENTS

NATIONAL

KWH-MTRS ►Buffer Stock

CATEGORY	2016	2017	2018	TOTAL
3 PHASE (HV)	1,315	210	164	1,689
1 PHASE (LV)	83,776	60,217	57,407	201,400
TOTAL	**85,091**	**60,427**	**57,571**	**203,089**

PHYSICAL REQUIREMENTS

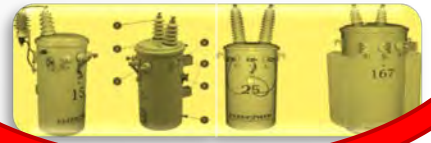
POLES

SUB-STATIONS

CONDUCTORS

KWH-METERS

DX-TRANSFORMERS



LOGISTICS

PHYSICAL REQUIREMENTS

NATIONAL

DX-TRANSFORMERS *

CATEGORY	2016	2017	2018	TOTAL
5 KVA	195	247	193	635
10 KVA	2,051	992	687	3,730
15 KVA	2,481	1,126	788	4,395
25 KVA	4,066	1,741	1,203	7,010
37.5 KVA	1,632	667	537	2,836
50 KVA	1,213	711	601	2,525
TOTAL	**11,638**	**5,484**	**4,009**	**21,131**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

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LUZON

DX-TRANSFORMERS *

CATEGORY	2016	2017	2018	TOTAL
5 KVA	65	56	56	177
10 KVA	1,002	422	205	1,629
15 KVA	1,274	447	282	2,003
25 KVA	2,032	633	353	3,018
37.5 KVA	1,012	339	270	1,621
50 KVA	666	237	191	1,094
TOTAL	**6,051**	**2,134**	**1,357**	**9,542**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

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VISAYAS

DX-TRANSFORMERS *

CATEGORY	2016	2017	2018	TOTAL
5 KVA	90	92	37	219
10 KVA	419	209	113	741
15 KVA	661	321	231	1,213
25 KVA	1,345	510	328	2,183
37.5 KVA	426	153	99	678
50 KVA	338	73	66	477
TOTAL	**3,279**	**1,358**	**874**	**5,511**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

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MINDANAO

DX-TRANSFORMERS *

CATEGORY	2016	2017	2018	TOTAL
5 KVA	40	99	100	239
10 KVA	630	361	369	1,360
15 KVA	546	358	275	1,179
25 KVA	689	598	522	1,809
37.5 KVA	194	175	168	537
50 KVA	209	401	344	954
OTHERS	132	357	328	817
TOTAL	**2,308**	**1,992**	**1,778**	**6,078**

* Includes Expansion, Maintenance and Buffer Stock (Contingency)

PHYSICAL REQUIREMENTS

NATIONAL

DX-TRANSFORMERS ▶Buffer Stock

CATEGORY	2016	2017	2018	TOTAL
5 KVA	45	16	16	77
10 KVA	433	172	146	751
15 KVA	612	400	283	1,295
25 KVA	1,122	503	306	1,931
37.5 KVA	562	318	253	1,133
50 KVA	387	293	159	839
TOTAL	**3,161**	**1,702**	**1,163**	**6,026**

PHYSICAL REQUIREMENTS

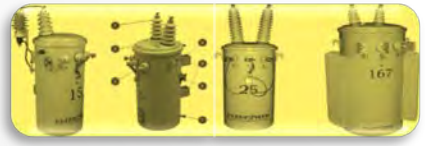
POLES

SUB-STATIONS

CONDUCTORS

KWH-METERS

DX-TRANSFORMERS



LOGISTICS

PHYSICAL REQUIRMENTS

NATIONAL

LOGISTICS *

CATEGORY	2016	2017	2018	TOTAL
TRUCKS	102	32	24	158
SERVICE VEHICLES	232	74	42	348
TOTAL	**334**	**106**	**66**	**506**

* Includes Expansion and Maintenance

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LUZON

LOGISTICS *

CATEGORY	2016	2017	2018	TOTAL
TRUCKS	40	11	11	62
SERVICE VEHICLES	83	44	22	149
TOTAL	**123**	**55**	**33**	**211**

* Includes Expansion and Maintenance

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VISAYAS

LOGISTICS *

CATEGORY	2016	2017	2018	TOTAL
TRUCKS	48	13	11	62
SERVICE VEHICLES	82	14	12	108
TOTAL	**130**	**27**	**23**	**180**

* Includes Expansion and Maintenance

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MINDANAO

LOGISTICS *

CATEGORY	2016	2017	2018	TOTAL
TRUCKS	14	8	2	24
SERVICE VEHICLES	67	16	8	91
TOTAL	**81**	**24**	**10**	**115**

* Includes Expansion and Maintenance

FUNDING REQUIREMENTS

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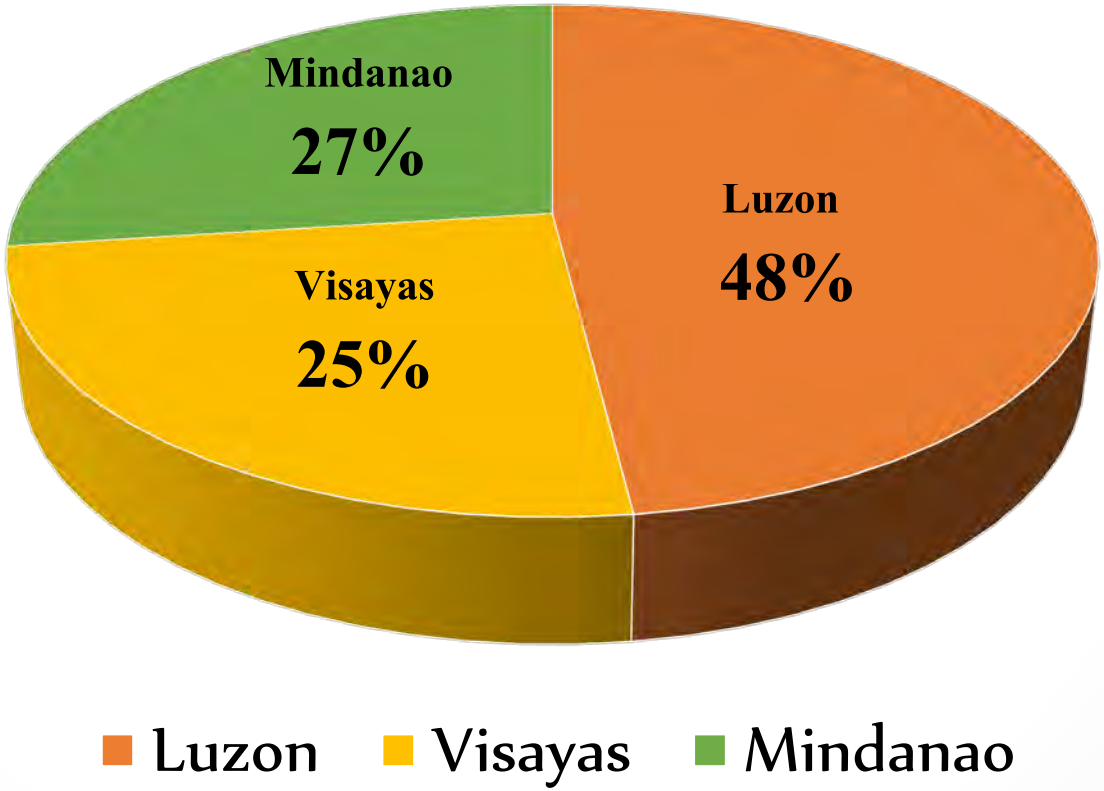
FUNDING REQUIREMENTS (P'000)

NATIONAL

	2016	2017	2018	TOTAL
LUZON	6,876,586	3,905,742	2,347,713	13,130,041
VISAYAS	3,408,779	1,910,974	1,489,751	6,809,504
MINDANAO	4,418,404	2,052,650	926,679	7,397,733
TOTAL	**14,703,769**	**7,869,366**	**4,764,143**	**27,337,278**

FUNDING REQUIREMENTS (Php 27.3B)*

* Includes Expansion, Maintenance and Buffer Stock (Contingency)



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LUZON

FUNDING REQUIREMENTS (P'000)

REGION	2016	2017	2018	TOTAL
REGION I	1,210,827	615,524	388,876	2,215,227
REGION II	877,844	317,637	293,705	1,489,186
CAR	305,756	577,721	385,483	1,268,960
REGION III	2,074,106	1,148,988	613,132	3,836,226
REGION IV-A	1,010,133	475,251	312,709	1,798,093
REGION IV-B	468,053	289,167	105,053	862,273
REGION V	929,867	481,454	248,755	1,660,076
TOTAL	**6,876,586**	**3,905,742**	**2,347,713**	**13,130,041**

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VISAYAS

FUNDING REQUIREMENTS (P'000)

REGION	2016	2017	2018	TOTAL
REGION VI	1,063,654	366,029	291,202	1,720,885
REGION VII	775,506	344,394	338,907	1,458,807
REGION VIII	1,569,619	1,200,551	859,642	3,629,812
TOTAL	**3,408,779**	**1,910,974**	**1,489,751**	**6,809,504**

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MINDANAO

FUNDING REQUIREMENTS (P'000)

REGION	2016	2017	2018	TOTAL
REGION IX	496,414	141,206	109,387	747,007
REGION X	968,913	538,986	224,040	1,731,939
REGION XI	1,583,773	867,641	148,500	2,599,914
REGION XII	431,372	296,369	139,943	867,684
ARMM	209,406	48,032	242,008	499,446
CARAGA	728,526	160,416	62,801	951,743
TOTAL	**4,418,404**	**2,052,650**	**926,679**	**7,397,733**

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REGION I

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
CENPELCO	463,089	383,235	196,766	1,043,090
INEC	129,602	64,577	49,812	243,991
ISECO	152,703	-	-	152,703
LUELCO	70,290	-	-	70,290
PANELCO I	42,434	44,216	43,012	129,662
PANELCO III	240,099	46,559	22,349	309,007
TOTAL	**1,098,217**	**538,587**	**311,939**	**1,948,743**

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REGION II

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BATANELCO	59,803	-	-	59,803
CAGELCO I	113,927	-	-	113,927
CAGELCO II	300,978	105,778	75,526	482,282
ISELCO I	163,098	143,627	153,905	460,630
ISELCO II	114,133	-	-	114,133
QUIRELCO	23,307	14,947	11,817	50,070
TOTAL	**775,246**	**264,352**	**241,248**	**1,280,845**

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CAR

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
ABRECO	40,179	13,975	57,348	111,502
BENECO	59,530	47,638	39,650	146,817
IFELCO	17,742	14,177	14,091	46,011
KAELCO	12,069	7,679	7,579	27,327
MOPRECO	129,340	456,639	226,209	812,187
TOTAL	**258,860**	**540,107**	**344,877**	**1,143,844**

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REGION III

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
AURELCO	241,537	191,664	193,444	626,644
NEECO I	43,343	30,047	-	73,389
NEECO II A1	197,975	123,247	59,736	380,959
NEECO II A2	266,700	73,585	145,083	485,369
PELCO I	74,488	13,409	13,349	101,247
PELCO II	315,522	317,410	54,057	686,989
PELCO III	230,750	98,454	14,018	343,222
PENELCO	229,854	94,889	10,453	335,195
PRESCO	41,875	5,031	3,848	50,753
SAJELCO	29,956	35,622	13,839	79,417

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REGION III

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
TARELCO I	73,350	-	-	73,350
TARELCO II	65,825	-	-	65,825
ZAMECO I	74,582	2,503	2,492	79,577
ZAMECO II	85,582	68,521	14,014	168,117
TOTAL	**1,971,339**	**1,054,382**	**524,332**	**3,550,053**

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REGION IV-A

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BATELEC I	356,838	235,016	108,372	700,226
BATELEC II	384,343	104,140	-	488,483
FLECO	5,991	6,061	5,962	18,014
QUEZELCO I	171,729	103,801	187,243	462,773
QUEZELCO II	27,128	18,665	3,888	49,681
TOTAL	**946,030**	**467,683**	**305,465**	**1,719,177**

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REGION IV-B

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BISELCO	37,985	27,107	17,834	82,926
LUBELCO	32,071	-	-	32,071
MARELCO	41,004	2,398	-	43,402
OMECO	33,830	25,854	35,235	94,919
ORMECO	123,984	20,278	20,342	164,604
PALECO	129,839	-	-	129,839
ROMELCO	20,573	190,533	10,442	221,549
TIELCO	25,800	20,993	19,196	65,989
TOTAL	**445,086**	**287,163**	**103,049**	**835,299**

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REGION V

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
CANORECO	72,587	31,190	16,639	120,416
CASURECO I	224,448	20,149	23,053	267,651
CASURECO II	101,057	11,701	9,051	121,809
CASURECO III	34,103	28,556	25,056	87,715
CASURECO IV	89,207	170,350	33,652	293,209
FICELCO	38,188	12,809	-	50,997
MASELCO	18,143	20,000	14,754	52,897
SORECO I	52,801	22,987	19,374	95,163
SORECO II	58,727	60,674	-	119,401
TISELCO	11,916	-	-	11,916
TOTAL	**701,178**	**378,416**	**141,579**	**1,221,174**

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REGION VI

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
AKELCO	239,662	96,666	73,077	409,405
ANTECO	58,374	40,937	40,038	139,349
CAPELCO	107,593	103,901	33,731	245,226
CENECO	302,841	13,856	13,620	330,317
GUIMELCO	20,686	5,865	6,169	32,720
ILECO I	100,290	55,380	30,423	186,093
ILECO II	130,947	5,916	-	136,863
ILECO III	39,035	2,504	2,356	43,895
NOCECO CDA	45,642	32,568	45,014	123,224
NONECO	125,571	54,347	69,096	249,013
TOTAL	**930,978**	**315,274**	**240,447**	**1,486,699**

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REGION VII

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BANELCO	8,577	7,143	7,213	22,933
BOHECO I	122,369	69,225	23,751	215,344
BOHECO II	171,089	-	-	171,089
CEBECO I	101,849	95,435	199,060	396,344
CEBECO II	113,090	32,377	17,174	162,641
CEBECO III	57,746	41,550	51,701	150,996
CELCO	6,410	8,616	4,998	20,024
NORECO I	22,094	25,048	-	47,142
NORECO II	130,395	20,230	8,467	159,092
PROSIELCO	6,371	5,376	5,279	17,026
TOTAL	**739,989**	**304,999**	**317,642**	**1,362,631**

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REGION VIII

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BILECO	113,453	164,803	11,900	290,156
DORELCO	19,962	3,439	3,135	26,535
ESAMELCO	108,019	36,431	31,371	175,821
LEYECO II	61,230	60,148	59,490	180,868
LEYECO III	52,191	31,847	18,188	102,226
LEYECO IV	225,743	21,359	19,923	267,025
LEYECO V	148,179	128,402	21,573	298,154
NORSAMELCO	68,853	40,029	40,919	149,801
SAMELCO I	54,107	73,756	20,244	148,108
SAMELCO II	322,071	500,000	500,000	1,322,071
SOLECO	144,750	16,250	8,698	169,698
TOTAL	**1,318,558**	**1,076,463**	**735,441**	**3,130,462**

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REGION IX

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
ZAMCELCO	84,269	22,362	22,143	128,774
ZAMSURECO I	87,361	40,782	11,321	139,464
ZAMSURECO II	156,848	42,083	55,520	254,450
ZANECO	119,412	17,791	2,215	139,418
TOTAL	**447,890**	**123,018**	**91,199**	**662,106**

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REGION X

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BUSECO	84,414	-	-	84,414
CAMELCO	117,237	1,567	1,594	120,398
LANECO	82,359	52,898	45,936	181,193
MOELCI I	31,467	54,465	37,988	123,920
MOELCI II	109,043	76,407	74,883	260,333
MORESCO I	250,494	295,307	15,598	561,399
MORESCO II	208,641	20,911	8,000	237,551
TOTAL	**883,656**	**501,554**	**183,999**	**1,569,210**

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REGION XI

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
DANECO	704,800	250,629	66,505	1,021,934
DASURECO	813,027	562,243	52,500	1,427,770
DORECO	53,223	50,821	9,861	113,904
TOTAL	**1,571,050**	**863,693**	**128,866**	**2,563,608**

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REGION XII

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
COTELCO	73,626	39,893	-	113,519
COTELCO-PPALMA	18,354	26,047	30,418	74,819
SOCOTECO I	88,347	32,096	26,534	146,977
SOCOTECO II	146,829	152,402	47,774	347,005
SUKELCO	104,216	42,139	35,217	181,572
TOTAL	**431,372**	**292,577**	**139,943**	**863,892**

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ARMM

FUNDING REQUIREMENTS (P'000)

EC	2016	2017	2018	TOTAL
BASELCO	14,687	9,757	8,273	32,717
LASURECO	115,883	23,944	215,294	355,121
MAGELCO	46,124	-	-	46,124
SIASELCO	1,094	286	302	1,682
SULECO	15,204	12,672	14,672	42,548
TAWELO	11,305	1,373	1,521	14,199
TOTAL	**204,298**	**48,032**	**240,062**	**492,392**

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FUNDING REQUIREMENTS (P'000)

CARAGA

EC	2016	2017	2018	TOTAL
ANECO	71,164	-	-	71,164
ASELCO	253,839	27,494	13,856	295,189
DIELCO	4,834	1,145	1,171	7,150
SIARELCO	64,381	-5,894	-5,825	52,661
SURNECO	167,842	53,206	32,120	253,167
SURSECO I	42,074	46,880	-	88,954
SURSECO II	72,275	18,494	12,457	103,225
TOTAL	**676,408**	**141,324**	**53,778**	**871,510**

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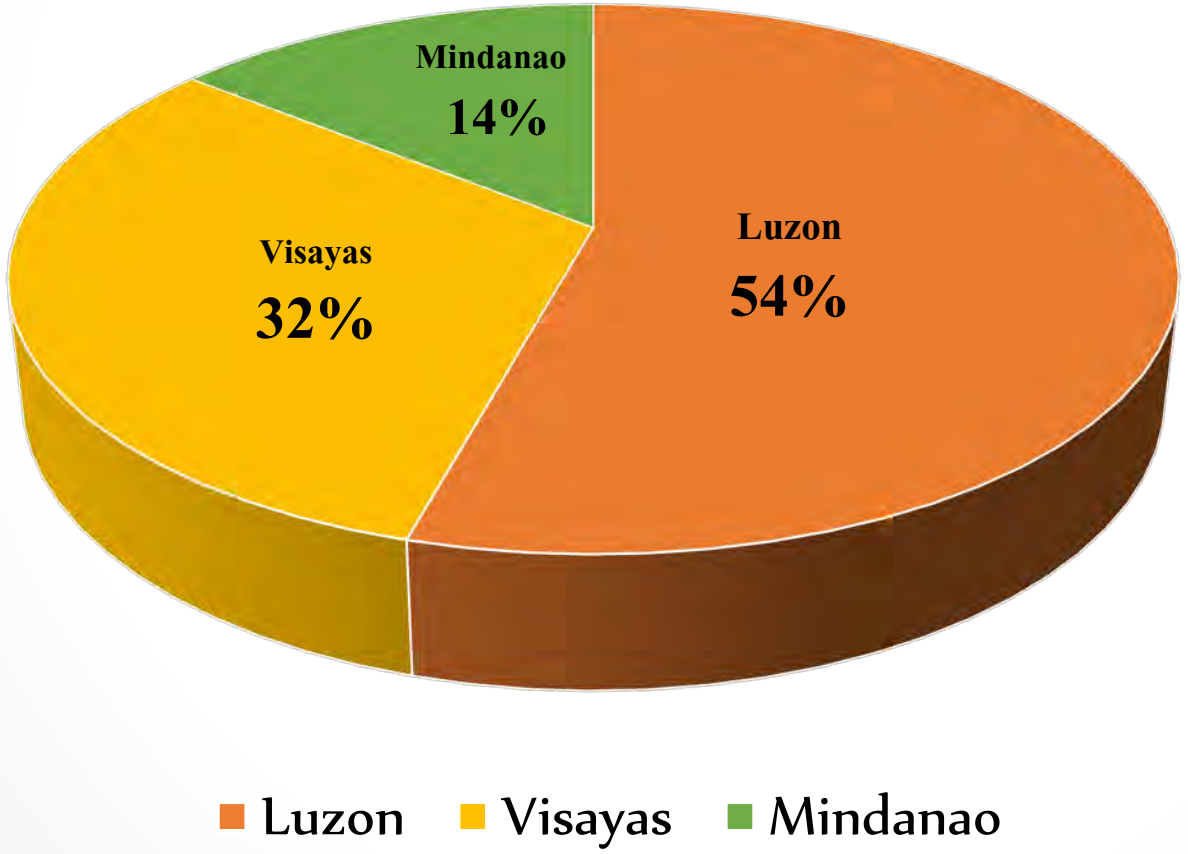
FUNDING REQUIREMENTS (P'000)

NATIONAL ► Contingency

REGION	2016	2017	2018	TOTAL
LUZON	680,630	375,051	375,224	1,430,905
VISAYAS	419,253	214,238	196,222	829,712
MINDANAO	203,730	82,453	88,833	375,015
TOTAL	**1,303,613**	**671,742**	**660,278**	**2,635,633**

FUNDING REQUIREMENTS (Php 2.6B)

Buffer Stock (Contingency)



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FUNDING REQUIREMENTS (P'000)

LUZON ► Contingency

REGION	2016	2017	2018	TOTAL
REGION I	112,610	76,937	76,937	266,484
REGION II	102,598	53,286	52,457	208,341
CAR	46,896	37,614	40,607	125,116
REGION III	102,767	94,605	88,799	286,171
REGION IV-A	64,103	7,568	7,244	78,916
REGION IV-B	22,967	2,004	2,004	26,974
REGION V	228,689	103,038	107,176	438,902
TOTAL	**680,630**	**375,051**	**375,224**	**1,430,905**

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FUNDING REQUIREMENTS (P'000)

VISAYAS ► Contingency

REGION	2016	2017	2018	TOTAL
REGION VI	132,676	50,755	50,755	234,186
REGION VII	35,517	39,395	21,265	96,176
REGION VIII	251,061	124,088	124,201	499,350
TOTAL	**419,253**	**214,238**	**196,222**	**829,712**

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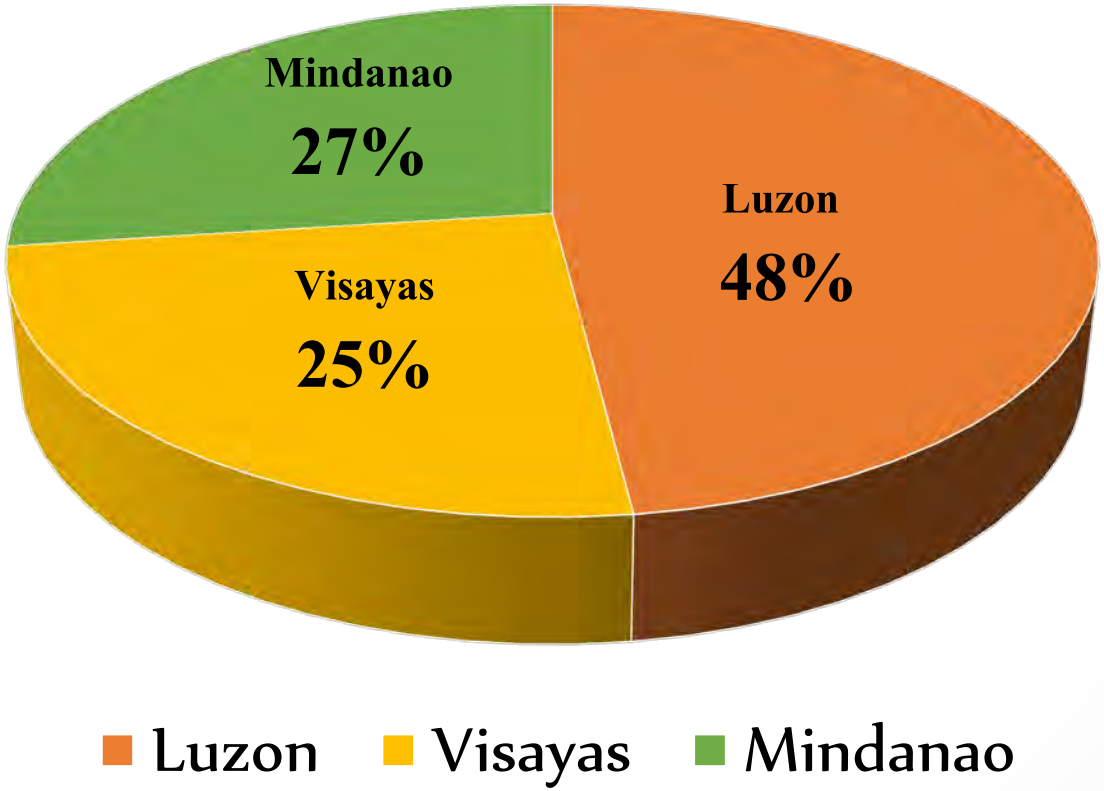
FUNDING REQUIREMENTS (P'000)

MINDANAO ► Contingency

REGION	2016	2017	2018	TOTAL
REGION IX	48,524	18,188	18,188	84,901
REGION X	85,257	37,432	40,041	162,729
REGION XI	12,723	3,948	19,634	36,306
REGION XII	0	3,792	0	3,792
ARMM	5,108	0	1,946	7,054
CARAGA	52,118	19,092	9,023	80,233
TOTAL	**203,730**	**82,453**	**88,833**	**375,015**

FUNDING REQUIREMENTS (Php 27.3B)*

* Includes Expansion, Maintenance and Buffer Stock (Contingency)



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