Conference on Energy Efficiency for the Industry - Solutions made in Germany

PROJECTS FOR INVESTMENT IN RENEWABLE ENERGY

Venue: Ballroom 1, Fairmont Makati, Manila May 07, 2019

German-Philippine Chamber of Commerce and Industry (GPCCI)



Status of Household Electrification

Initial Estimate as of 31 December 2017

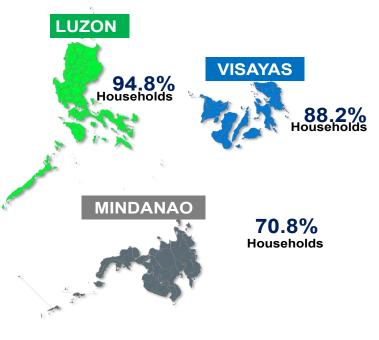
20.936 Million
Households have
electricity out of
23.716 Million
Households in the



country

(Based on DDP 2018-2027 by DUs)

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

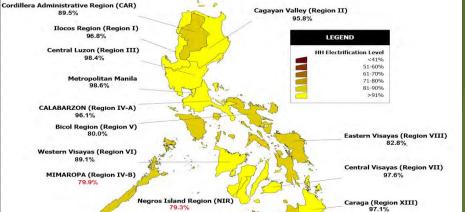






REGIONAL ELECTRIFICATION LEVEL (DEC 2017)

Note: Red texts in	HH Elect'n Level %	Unserved HH	Served HH	Total HH*	Region
Cordillera Administrative Region (CAR) 89.5%	89.5%	43,101	365,999	409,100	CAR
	96.8%	37,246	1,141,887	1,179,133	I
Ilocos Region (Region I) 96.8%	95.8%	33,486	762,314	795,800	II
Central Luzon (Region III)	98.4%	45,122	2,748,334	2,793,456	III
98.4%	96.1%	146,101	3,572,657	3,718,758	IV-A
Metropolitan Manila 98.6%	79.9%	142,012	566,065	708,077	IV-B
	98.6%	44,248	3,189,357	3,233,605	NCR
CALABARZON (Region IV-A)	80.0%	239,604	957,954	1,197,558	V
96.1%	94.8%	730,920	13,304,568	14,035,487	Luzon
Bicol Region (Region V) 80.0%	89.1%	111,131	908,244	1,019,375	VI
Western Visayas (Region VI)	97.6%	34,942	1,391,344	1,426,286	VII
89.1%	82.8%	172,308	831,235	1,003,543	VIII
MIMAROPA (Region IV-B)	79.3%	209,906	806,494	1,016,400	NIR
79.9%	88.2%	528,287	3,937,317	4,465,604	Visayas
Negros Island	27.4%	449,410	169,190	618,600	ARMM
19.3%	97.1%	18,185	615,515	633,700	CARAGA
Zamboanga Peninsula (Region IX)	67.0%	248,856	505,444	754,300	IX
67.0%	92.4%	76,844	927,878	1,004,722	X
Autonomous Region of Muslim Mindanao (AF	68.2%	374,008	803,588	1,177,596	XI
y at 100	65.6%	353,020	672,999	1,026,019	XII
	70.8%	1,520,323	3,694,614	5,214,937	Mindanao
Source: DOE (Initial Estimate	88.3%	2,779,530	20,936,499	23,716,028	Philippines



SOCCSKSARGEN (Region XII)

Northern Mindanao (Region X) 92.4%

Davao Region (Region XI)

Note: Red texts indicate electrification level below 80%





Solar Rooftop





Market Trend

- Rooftop solar power systems will account for at least one-third of all solar installations in the Philippines by 2030 as the popularity of this renewable energy platform continues to rev up, according to Market Insights Reports.
- The North Carolina-based American firm said in a report that within the next 12 years, total solar power generation capacity in the country was expected to reach 8,700 megawatts (MW).
- According to a separate report from Netherlands-based Solarplaza, the Philippines' solar power installed capacity totaled at just 900 MW as of June 2017.
 - "The government in the Philippines aims to increase the solar PV (photovoltaic) installations, to reach 3 gigawatts (or 3,000 MW) of utility solar in 2022," the research firm said.
- "In addition, the cumulative solar installation is predicted to reach 8.7 GW by the end of 2030, with solar rooftops constituting 35 percent of the total installations," it added. "These initiatives are likely to further drive the growth of the Philippine solar energy market.

Source: https://business.inquirer.net/248692/whats-vogue-solar-rooftops#ixzz5nAeJ098k



















Market Trend

- The decentralized energy and power backup markets are converging.
- Inverter makers are also vying to build micro-grid capabilities.
- Oil price volatility could provide a tailwind for solardiesel hybrids.
- RE micro-grid projects at the moment remain sparse.
- Graduation of some SPUG Islands from UCME subsidy





