

Efficient Implementation of Power Sector Reforms in the Philippines

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Public Consultation on National Policy Review on Energy 26 October 2017 Sofitel Philippine Plaza Manila

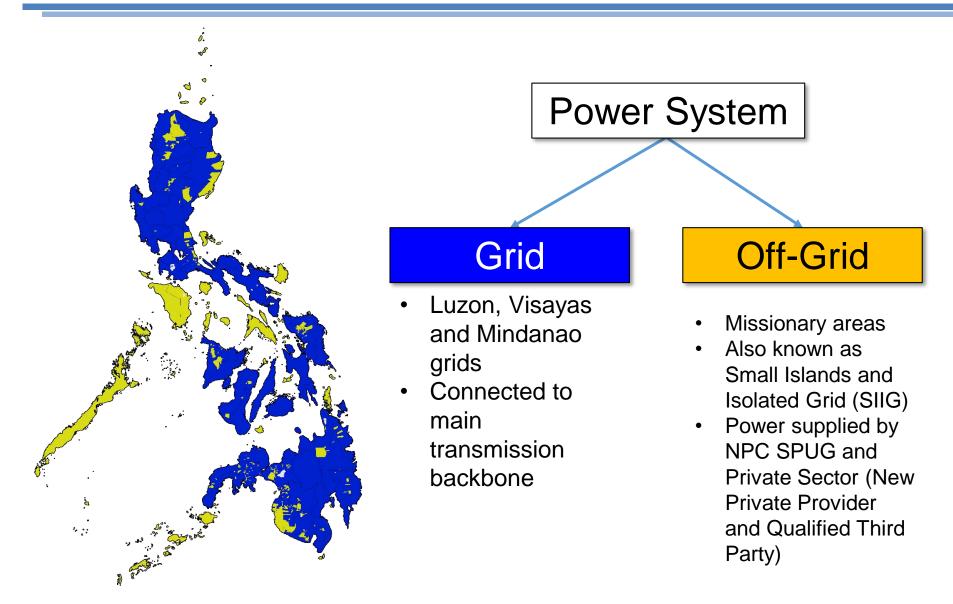


Department of Energy Empowering the Filipinos

- A. Philippine Power Statistics and Status of Household Electrification
- в. Power Development Plan to 2040
- c. Policy Initiatives for the Implementation of Power Sector Roadmaps

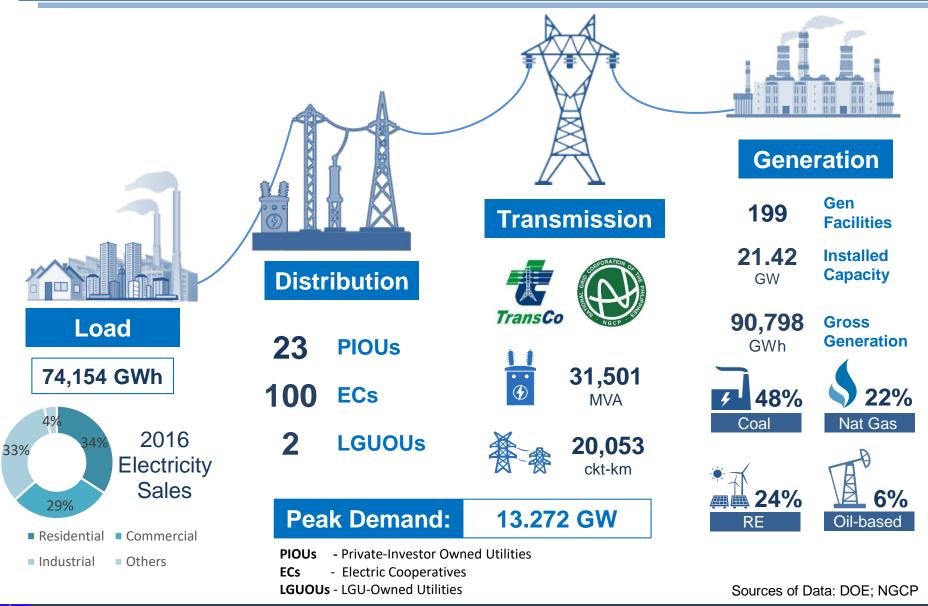


Philippine Power System

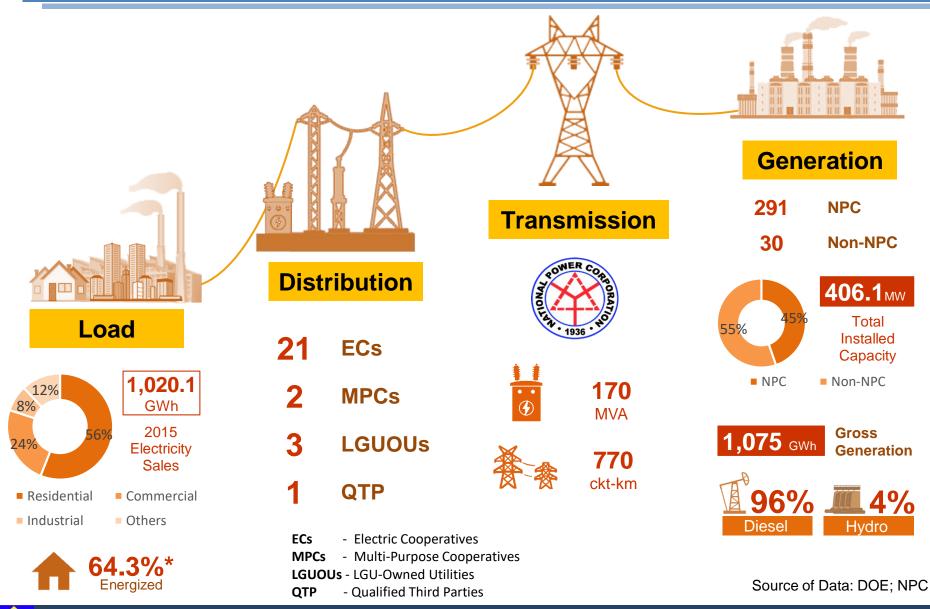




Grid Power System



Off-Grid Power System



*excluding ARMM areas

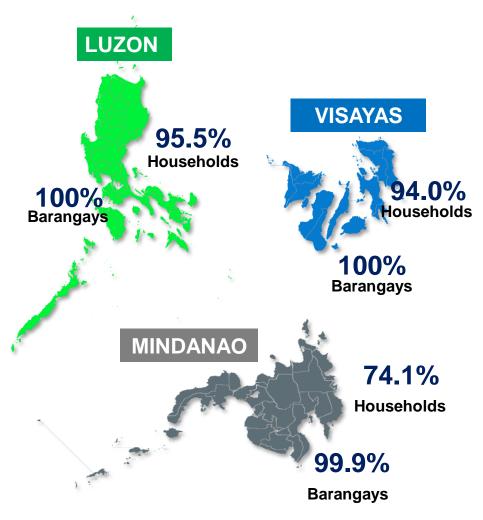
Status of Household Electrification

As of 31 December 2016



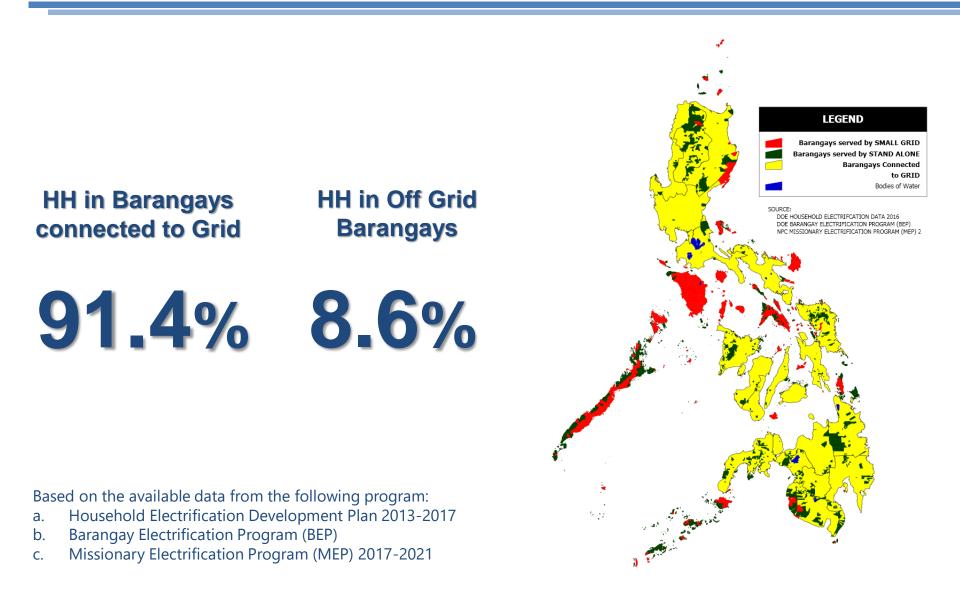
20.6 Million Households have electricity out of 22.7 Million Households in the country (Based on 2010 Census)

Distribution Utilities (in Millions HH)	HH Population Projected C2010	Served HH	Unserved HH	HH Electrificatio n Level (%)
119 Electric Cooperatives	13.34	11.72	1.61	87.92%
MERALCO Other	7.09	6.92	0.17	97.64%
Distribution Utilities	2.29	1.95	0.34	85.05%
Philippines	22.72	20.59	2.12	90.65%





Status of Household Electrification







Power Development Plan to 2040

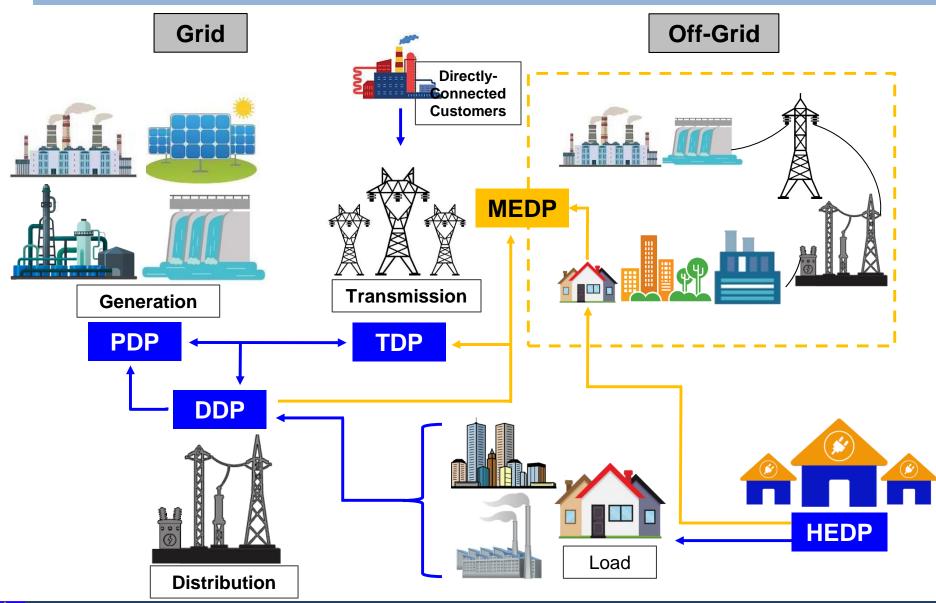


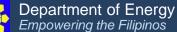
EPIRA, Sec. 37(c):

Prepare and update annually a **Power Development Program (PDP)** and integrate the same into the Philippine Energy Plan. The PDP shall consider and integrate the individual or joint **development plans** of the **transmission**, generation, and distribution sectors of the electric power industry, which are submitted to the Department

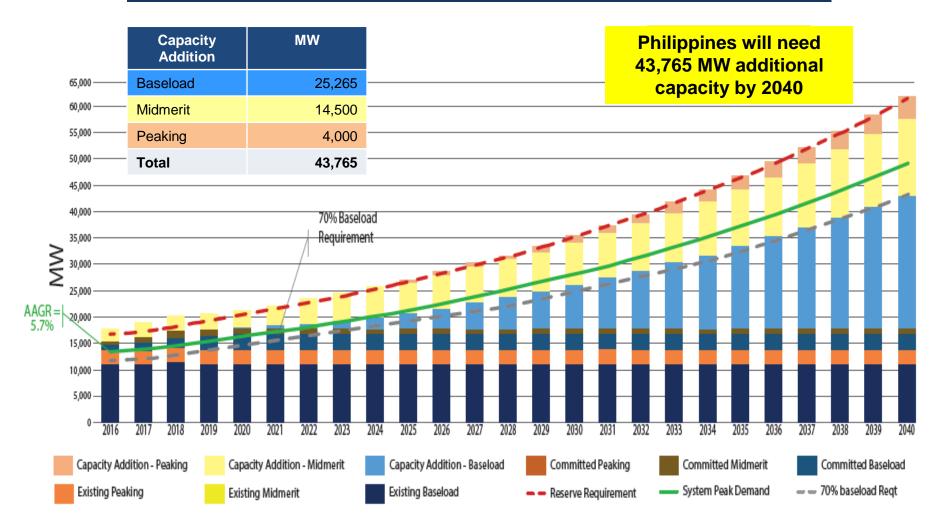


Power-Related Development Plans Linked



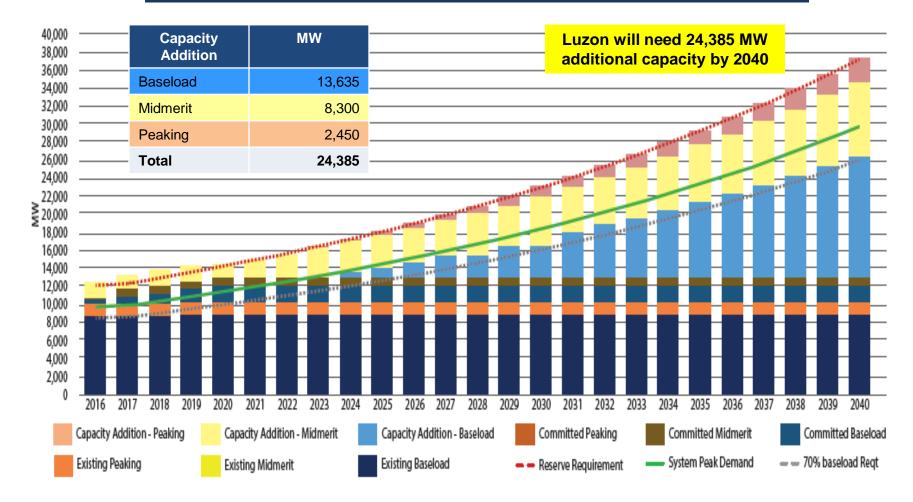


Philippines Demand and Supply Outlook, 2016-2040



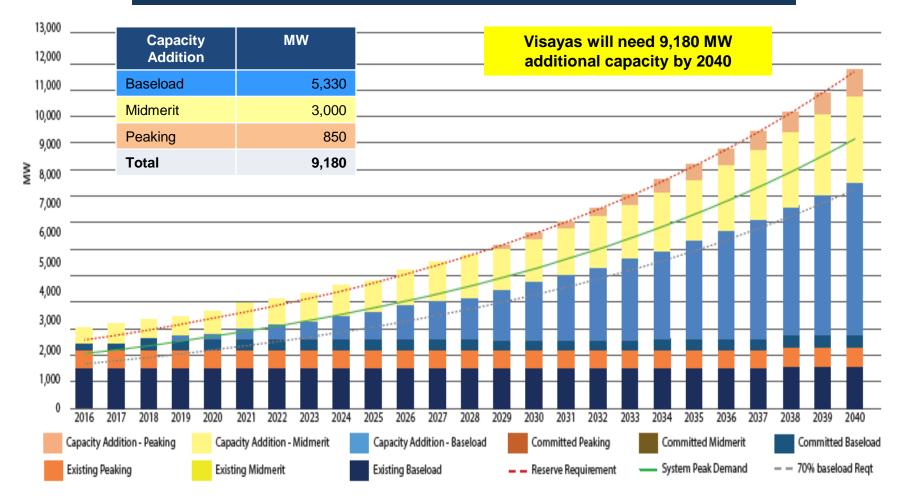


Luzon Demand and Supply Outlook, 2016-2040



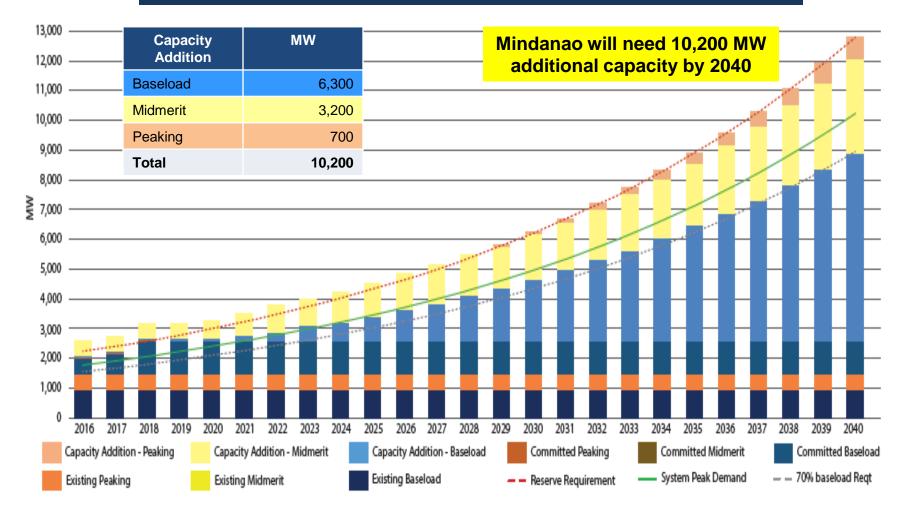


Visayas Demand and Supply Outlook, 2016-2040





Mindanao Demand and Supply Outlook, 2016-2040





Power Development Plan to 2040



Power Sector Roadmap







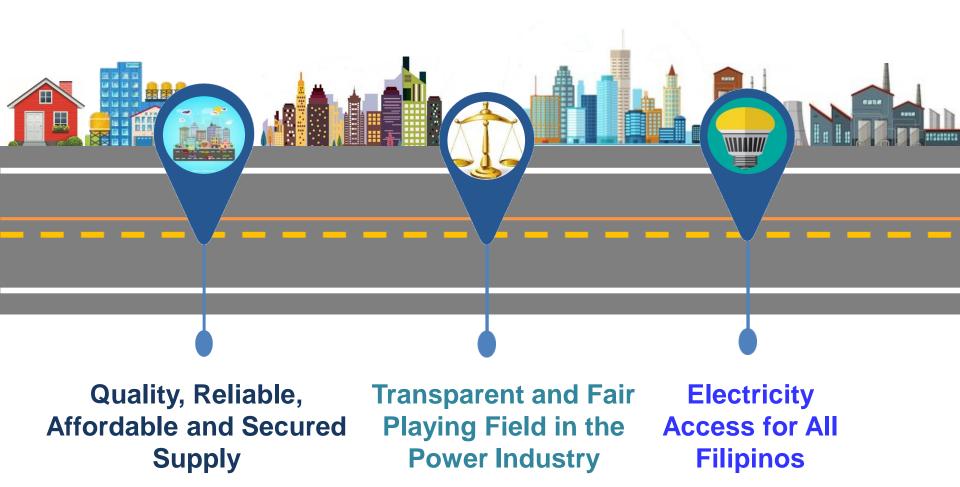
Policy Initiatives for the Implementation of Power Sector Roadmaps



A globally-competitive DOE powering up Filipino communities through clean, efficient, robust and sustainable energy systems that will create wealth, propel industries and transform the lives of men and women and the generations to come.

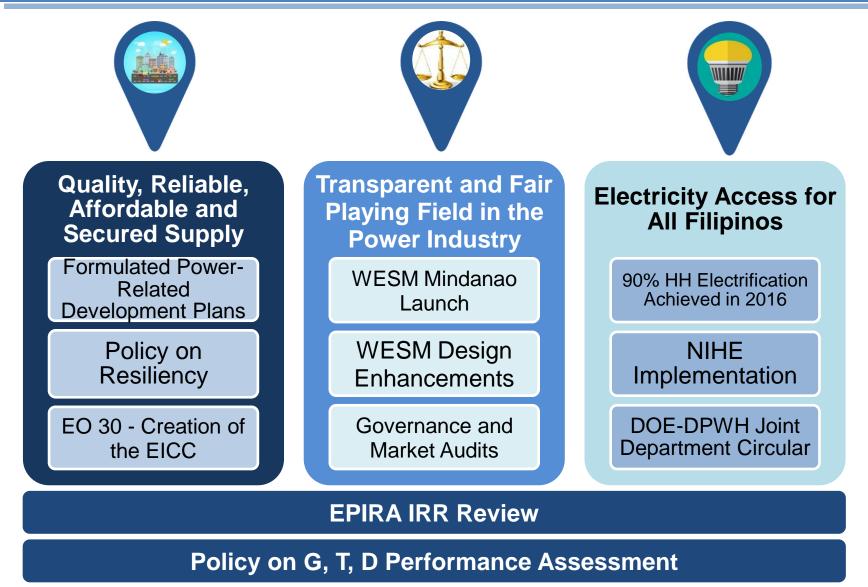


Power Sector Roadmap Towards





DOE Major Accomplishments



EICC – Energy Investment Coordinating Council

GTD- Generation, Transmission, Distribution



Quality, Reliable, Affordable and Secured Supply



Policy for the integration of Energy Storage Systems (ESS) in the Power System



Policy Study on Electric Power Distribution Loss



Policy on Embedded Generation



Policy on Smart Grid

Quality, Reliable, Affordable and Secured Supply Transparent and fair playing field in the power industry



Quality, Reliable, Affordable and Secured Supply





Policy Research/Study on Island Interconnection



RE Hybridization of NPC-SPUG Power Plants

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Electricity Access for All Filipinos



Department of Energy Empowering the Filipinos



Policy on Causer Pays Mechanism for the proper utilization and fair recovery of the Ancillary Services



Providing policies on the implementation of Retail Competition and Open Access (RCOA) through Voluntary Participation of the Contestable Customer and effective participation of Retail Electricity Suppliers in the Retail Market

Quality, Reliable, Affordable and Secured Supply

Transparent and fair playing field in the power industry





Policy study on the allocation of PSALM capacity in Mindanao to marginalized customers and economic zones



Implementation of the Annual Work Program pursuant to Section 6a, Rule 29 (Part A) of the EPIRA IRR



Policy Review of the Implementation of the DILG-DOE Joint Circular 95-01 & 98-01 National Wealth Tax which is part of Rule 29 Part B of the EPIRA IRR

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Initial Assessment of Household Electrification

Based on 2015 Census

>2 Million Households

to be electrified by 2022 based on 2015 Census

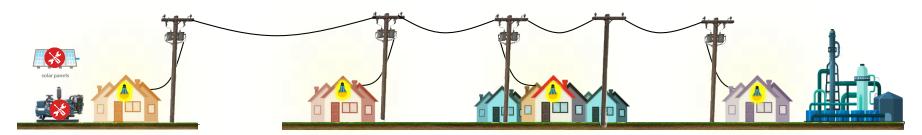


Distribution Utilities (in Millions HH)	HH Population C2015	Served HH	Unserved HH	HH Electrification Level (%) June 2017
119 Electric Cooperatives	14.57	11.99	2.58	82.29%
MERALCO	6.48	6.48 (6.92)**	0	100.00%
Other Distribution Utilities	1.93	1.93 (1.95)**	0	100.00%
Philippines	22.98	20.41	2.57	88.77%

*Based on NEA Status of Energization Report as of June 2017

** Based on PIOUs and LGUOUs DDP 2017-2026 Household Electrification Level (%) as of Dec. 2016. Number of served households are already more than the number of household provided un Census 2015

GRID ELECTRIFICATION PROGRAMS AND PROJECTS



NEA- Barangay Line Enhancement Program (BLEP)

- Extension of DX lines to previous offgrid electrified areas, enhancement of lines and/or submarine cables

NEA- Sitio Electrification Program (SEP)

-Extension DX lines to far flung areas and sitios

Nationwide Intensification of Household Electrification (NIHE)

- Intensification of Household Electrification through grant housewiring subsidy

ER 1-94 Electrification Fund Program

-Provision of electrification projects leading to 100% electrification of to Host Communities

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OFFGRID ELECTRIFICATION PROGRAMS AND PROJECTS



Qualified Third Program (QTP)

-Provision of Generation to Distribution services to areas deemed unviable and waived by the DUs

DOE- Household Electrification Program using RE System (HEP)

-Provision of individual PV SHS if a hydropower resource is available within a reasonable distance from the clustered household beneficiaries.



NPC Missionary Electrification Program (MEP)

-Provision of Generation Capacity to Off-grid Areas

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Rationalization of UCME Subsidy System



Research on the Improvement of Private Sector Participation (PSP) Program for Missionary Areas



Preparation of Philippine Total Household Electrification Master Plan for Off-grid Areas

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Conduct series of Public Consultation together with NEA and NPC on Total Electrification by 2022



Issuance of detailed yearly plans & target for each of Electrification Programs to achieve Total Household Electrification target

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Thank You!



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