



## NEA inches closer to reaching 13-millionth electricity consumer connection

With only a few months left before its golden anniversary, the National Electrification Administration (NEA) is inching closer to its goal of hitting the 13-millionth electricity consumer connection mark this year.



Official figures showed that the total electricity consumer connections within the coverage areas of 121 electric cooperatives (ECs) nationwide have already reached 12,877,657 as of January 31, 2019, which is already 99 percent of the 13-millionth target.

According to the Information Technology and Communication Services Department (ITCSD), majority of these are in Luzon with 6,070,768 consumer connections, followed by Visayas with 3,446,623, and Mindanao with 3,360,266 connections.

Administrator Edgardo Masongsong said the agency, in close coordination with the ECs, is exploring all avenues to fast-track the consumer connection in time for the agency's 50th anniversary celebration.

*"More than the goal of reaching this milestone, we want to be instrumental in achieving the government's long-term vision to eliminate poverty in the country as enshrined in the AmBisyon Natin 2040 program,"* Masongsong said.

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### NEA Power Task Force Election 2019 formed

NEA has created a task force that will ensure the adequate and reliable power supply in areas covered by electric cooperatives (ECs) before, during and after the May 13, 2019 National and Local Elections.

Administrator Edgardo Masongsong recently issued Office Order No. 2019-033, establishing the "NEA Power Task Force Election 2019."

This is in compliance to the Commission on Elections (Comelec) Resolution No.10471 deputizing, among others, the NEA in connection with the conduct of the May 13 National and Local Elections.

As provided for in the resolution, the NEA is commissioned to "provide and maintain stable and continuous nationwide electric power requirements from the start of voting, until the termination or conclusion of the canvassing of votes and the proclamation of the winning candidates."

In a statement, Administrator Masongsong emphasized the critical value of electricity service in the conduct of elections.

*"The upcoming elections will utilize power-dependent technologies and requires reliable delivery of electricity service. The NEA, as Comelec's partner agency, will ensure that the conduct of the polls and post-election activities are smooth, unhampered and secure,"* the NEA chief said.

The NEA Power Task Force Election 2019 is composed of the

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## NEA issues rules to implement power distribution infrastructure resiliency fund

NEA has issued the implementing rules and regulations (IRR) of Republic Act No. 11039, also known as the "Electric Cooperatives Emergency and Resiliency Fund (ECERF) Act."

The 15-page IRR was approved and signed by Administrator Edgardo Masongsong on December 14, 2018. It has already been registered with the Office of the National Administrative Register, University of the Philippines Law Center, and took effect 15 days after its publication in a newspaper of general circulation.

According to the Administrator, this is the final step towards the actual enablement of the ECs versus the ever-increasing threat of rogue weather, and a timely capacitation towards mitigation, adaptation and resiliency. Aside from being a feather in the cap of the legislative branch, this is also a testament that the lawmakers are responsive to climate realities.

The IRR provides guidelines for the implementation of RA 11039 enacted in June last year, which seeks an orderly and continuing means of financial assistance to ECs in the form of grants for the immediate restoration or rehabilitation of damaged infrastructure after a fortuitous event or force majeure.

The rules apply to all ECs in the country.

Under the law, the ECERF will be managed and administered by the NEA with an initial amount of P750 million to be taken from the National Disaster Risk Reduction and Management Fund and will be immediately released to the NEA Quick Response Fund for proper release to qualified ECs.



Section 8 of the IRR states that the "concept of 'Build Back Better' shall be integrated in the recovery, rehabilitation and reconstruction phases after a disaster to increase the resiliency of the affected ECs' infrastructure."

After 50 percent utilization of the fund, the NEA shall seek for the allocation of a supplementary budget from NDRRMC Fund equivalent to at least the initial fund allocation, subject to the approval of the President.

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## Electrification projects in 2018 funded through NEA loan facility

Several EC projects in 2018 ranging from installation of new substations, construction of distribution lines, to rehabilitation of mini-hydro power plants were financed through loans offered by NEA.

Data from the Accounts Management and Guarantee Department (AMGD) showed P2.084 billion worth of loans, including calamity loans, were extended to 62 ECs in 2018. Bulk of the loans, amounting to P1.279 billion, were used to bankroll several capital expenditure (CapEx) projects of 50 ECs.

These projects include the installation and upgrading of power substations accounting for P372.597 million; construction of sub-transmission and distribution lines at P337.143 million; purchase of kwh meters, other materials and replacement of dilapidated poles at P178.831 million; and rehabilitation of mini-hydro power plants at P113.131 million.

"The year 2018 was remarkable in terms of loan availment as the agency reached its target of P1.7 billion within the 3rd Quarter of last year," Administrator Masongsong said.

"We have been very stringent and subjected the applications of electric cooperatives to scrutiny. But as long as these loans are intended for the improvement of the EC's operational efficiency, financial viability or increase their capacity to rehabilitate the utilities, the NEA did not think twice to give due course to these loan applications," the NEA Chief added. #

## EC energy sales rose 4 percent in Q2-2018

ECs nationwide posted a 4 % growth in energy sales in the second quarter of 2018 compared to the first quarter of the same year, based on the data gathered by the NEA.

Report from the Information Technology and Communication Services Department (ITCSD) showed that ECs' sales volume went up to 5,136 gigawatt hours (GWh) from April to June 2018.

Engr. Roderick Padua, Department Manager of ITCSD, said this is 4% higher from 4,924 GWh sales posted by the ECs in the first quarter last year. Of the total, 2,610 GWh was registered in Luzon, 1,133 GWh in Visayas, and 1,393 GWh in Mindanao.

NEA attributed the increase to the higher electricity consumed by residential sector, which accounted for 2,670 GWh or 52%, followed by the commercial sector at 1,130 GWh or 22%.

The industrial sector came in at 976 GWh or 19%, public buildings at 257 GWh or 5%, and other consumers at 103 GWh or 2%.

With the increase in GWh sales, the operating revenues of the ECs in the second quarter grew 14% to P52.616 billion from the first quarter's P46.126 billion.

The operating revenues of the ECs from January to June 2018 brings to a total of P98.742 billion.#



# Measures to attain a safe and energy-efficient building adopted



In order to provide the employees as well as its clients with safe and energy-efficient workplace, NEA, through the Human Resource and Administration Department, has adopted various initiatives that include the rehabilitation and maintenance of building infrastructures and equipment like load testing of elevators, repair of water pump, retrofitting of LED lights, installation of new LED emergency lights, replacement of brand new fire extinguishers and repair and replacement of flooring and ceiling.

In addition, other building structures such as the canteen kitchen, rooftop garden and motor pool have been repaired and improved. Solar panels installed at the rooftop were transferred to the other side where the other solar equipment were installed.

The Agency has also been conducting, through a service provider, monthly fumigation of the NEA premises. One service vehicle was also converted into an emergency service vehicle equipped with first aid implements.#

## NEA intensifies capacity-building activities for NEA and EC officials and employees



From January to March 2019, NEA, through its training arm, the NEA-EC Training Institute (NETI), conducted a total of 25 competency and certification trainings/seminars for some 746 NEA and EC officials and employees.

Some of the competency and certification activities conducted were Basic Occupational Safety and Health, Basic Disaster Management, Meter Reading, Billing and Collection and Disconnection Enhancement, Essentials and Practice of Internal Auditing, Power Distribution Line Worker Enhancement, among others.

It has been the goal of NEA to professionalize its workers in order to provide its clients with the best service they deserve.

Likewise, as mandated under Section 58 of the EPIRA, NEA lined-up programs that will prepare the ECs to respond to the requirements of the current energy industry.#

## NEA targets reinforced employee roster



To realize the goal for a stronger workforce, the Human Resource Management Division (HRMD) continues to process the recruitment, selection and hiring of personnel.

For the First Quarter of 2019, a total of 18 applications had been processed that includes the promotion of 11 employees, hiring of five new personnel and contracting of three Project Officers (POs).

The Human Resource Merit Promotion and Selection Board (HRMPSB) conducted a series of screening and

evaluation of applicants to meet the employment target of 340 personnel for 2019.

Meanwhile, NEA, through the HRMD, also provides an opportunity to recognize the services of NEA employees who retire either on mandatory or optional plan through the *Salamat NEAn, Mabuhay Ka!* Program.#



## More areas to be energized in Sarangani and South Cotabato under SEP



*SOCOTECO workers start the energization of sitios in Barangay Datal Bukay, Municipality of Glan Sarangani*

More rural communities within the coverage area of the South Cotabato II Electric Cooperative, Inc. (Socoteco II) will be connected to the electricity grid this year under the Sitio Electrification Program (SEP).

Engr. Crisanto Sotelo, general manager of Socoteco II, said electrification work has commenced in February to power up 46 more sitios included in the SEP of the NEA.

*"In the past years, we are striving to remain true to our commitment of delivering electrification to rural and remote areas, including the hardest-to-reach homes in Mindanao. Once energized, we expect the social and economic benefits in these areas to be significant,"* Administrator Edgardo Masongsong said.

Of the number, 11 sitios are located in Brgy. Datal Bukay, Municipality of Glan in Sarangani province.

# NEWS AROUND T

With the total cost of P61.46 million, Socoteco II expects the completion of these electrification projects within this year, which will benefit more than 1,800 households.

*"Since the beginning of the Sitio Electrification Program (SEP) in 2011, there has been a massive implementation of the electrification program,"* General Manager Sotelo said.

Sitio Colambog, a small community of around 100 households, became the first among 11 sitios in Datal Bukay that was energized. On February 18, inhabitants of this community celebrated the arrival of electricity after living for decades without access to power.

Before electricity was available, some of the residents in Sitio Colambog relied on kerosene lamps as their primary source of lighting after dark, while the others had small solar panels.

Barangay Datal Bukay captain Rodolfo Mabuhay expects electricity connection to improve productive hours in a household, enhance children's education, and boost the livelihood in the area.

Bringing power to far-flung and isolated areas is never easy, as there are also challenges involved. Socoteco II cited accessibility and security as among the hindrances to power development efforts.

In 2018, Socoteco II was able to connect 11 sitios.

To houses that cannot be connected to the grid due to distance, Socoteco II will be providing solar home systems (SHS), thanks to European Union's Access to Sustainable Energy Programme (ASEP).

In 2018, Socoteco II installed 2,500 units of SHS to households located in the Municipality Malungon, Sarangani. For this year, Socoteco II has 7,500 units of SHS to be distributed to households located within the cooperative's franchise area. #



*The locals of Sitio Colambog, Datal Bukay, Sarangani enjoy the service and benefits of electricity for the first time*

## NEA to FICELCO: Adopt measures to avert power interruptions this summer

In anticipation of higher electricity demand during the summer season, the NEA has advised the First Catanduanes Electric Cooperative, Inc. (FICELCO) to take necessary measures to reduce the possibility of power interruptions.



*Line rehabilitation and power restoration works being done in the Province of Catanduanes*

This after the National Power Corporation (NPC) has decided to defer the deployment of Power Barge (PB) 106 to Catanduanes, which will supposedly augment and stabilize the power situation in the province.

NPC cited as a reason that the Sunwest Water and Electric Company (SUWECO) has fast-tracked the deployment and installation of 6MW mobile diesel generator sets as part of its obligation to the 2nd Amendment of Energy Supply Agreement (ESA) with FICELCO, and its target of completion is in April.

As such, according to NPC, the total dependable capacity of power supply will increase up to 15.5MW as against the present power demand of 12.5MW and with a reserve capacity of 1.58MW during summer season.

Therefore, the NPC has decided to defer the deployment of power barge to Catanduanes as it would cost the agency an approximately P10 million for the construction of mooring facilities in the province.

# THE ECs

## Long wait for CapEx approval over; reliable power in sight for Palaweños

The long wait was finally over for the Palawan Electric Cooperative (PALECO) after getting the approval to implement its five-year capital expenditures (CapEx), majority of which are geared to meet the demand of Palaweños for more stable and reliable electricity in the province.

Twenty-five CapEx projects out of the 29 applied for by Paleco for the years 2017 to 2021 were approved by the Energy Regulatory Commission (ERC) in the total amount of P1.082 billion, lower from its P1.161-billion original submission.

*"The application filed by Palawan Electric Cooperative for approval of its capital projects for the years 2017 to 2021 and for authority to secure loan, with prayer for provisional authority, is hereby resolved,"* the ERC stated in its decision dated November 6, 2018, and docketed on December 7, 2018. Paleco filed its application for CapEx approval on May 9, 2017.

Among the approved CapEx projects were the installation of two new 5 MVA substations in Puerto Princesa City, and a Supervisory Control and Data Acquisition (SCADA) System. Also included were the acquisition of several major equipment, such as distribution transformers, kilowatt-hour meters, low voltage conductors, and service drop wires.

Paleco was directed by the ERC to conduct competitive biddings for the purchase of major materials in the implementation of its CapEx projects. It was also authorized to secure a loan amounting to P263.708 million to finance its projects.

The power distribution utility intended to avail of loans from the NEA to finance several of its proposed projects. The proposed loans shall be paid within 15 years with an annual interest rate of 6%.

Welcoming the approval of the CapEx, Paleco Project Supervisor and Acting General Manager Engr. Nelson Lalas said they would prioritize the implementation of the projects that would immediately contribute to the improvement of the electricity service to Palaweños, such as the installation of new substations and SCADA system. #

## NEA issues rules to implement ... from page 2

It also authorizes the Agency to deduct Engineering and Administrative Overhead expenses which are limited to: pre-construction activities; construction project management; testing and quality control; acquisition, rehabilitation and repair of related equipment and parts; and contingencies in relation to pre-construction activities.

Also, the IRR states that donations in the form of funds, whether local or international, intended for the restoration and rehabilitation of the ECs' damaged infrastructure shall be received by the NEA, subject to existing auditing rules and regulations.

*"The NEA shall designate an exclusive account for such donations and shall be utilized exclusively for such restoration or rehabilitation,"* Section 9 of the IRR states.

The NEA shall also receive donations in the form of materials and equipment but directly deliver to the designated recipient EC or ECs. In case the donor did not designate a recipient, the NEA shall have the discretion to choose among the affected ECs taking into consideration the severity of the damage.

The IRR also outlines the powers and functions of the NEA in addition to its current mandate, which include formulating policies and coordinating the implementation of all activities of the ECs relative to emergency and resiliency management.

It also tackles the responsibilities of the ECs in addition to their mandate to implement the rural electrification program. These include ensuring the preparedness and mitigation measures to protect the adverse impact of any fortuitous event or force majeure.

The ECs shall also ascertain the ability of their manpower to undertake emergency response for the immediate restoration or rehabilitation of their damaged infrastructure after a fortuitous event or force majeure.

In addition, the ECs are required to submit to the NEA their respective comprehensive and integrated disaster management programs, such as Vulnerability and Risk Assessments, Resiliency Compliance Plans, and Emergency Response Plans.

Failure to submit said assessment and plans to the NEA shall bar the ECs from accessing the ECERF.

Moreover, Section 12 of the IRR states the NEA, in addition to its present restructuring plan, shall establish its Disaster Risk Reduction and Management Department with the following responsibilities:

- Assess, develop and implement disaster risk reduction management plan covering preparedness, damage assessment, rehabilitation and restoration of network and non-network facilities of ECs;
- Provide technical support and assistance to ECs in the preparation and implementation of disaster risk reduction and management plans;
- Supervise and coordinate rehabilitation and restoration activities in the event of a major disaster or after the occurrence of a fortuitous event or force majeure;
- Ensure that the NEA and the ECs are prepared to respond and manage any type of crisis whether man-made or natural;
- Directly monitor the strict implementation of the objectives and provisions of the ECERF Act. #





## Wind turbines, electric scooters pump up Romblon Island



*The wind turbine is hoped to bring steady, efficient and reliable electricity service to Romblon*

It was perhaps the magic of the moment on a Sunday morning of February 11, 2019 when the management and staff of the Romblon Electric Cooperative, Inc. (ROMELCO) collectively dreamt away to usher in the wind of change with their new environment-friendly power source.

We are talking about the 900-kilowatt (kW) wind turbines now spinning on the hills of Barangays Agnay, Bagacay and Lonos in Romblon to accommodate the increasing electricity demand of the island province and it's a big deal for all of us in the rural electrification sector.

After almost a year of construction, ROMELCO officially launched its P242-million wind farm project, which was made possible through its partnership with Japanese manufacturer Komaihaltec, Inc. and supported by the Ministry of the Environment of Japan.

NEA did not miss this highly anticipated event with Deputy Administrator for Technical Services Artis Nikki Tortola leading the charge to commend the co-op for going beyond what was expected of a small power utility.

*"For so long a time, we were conditioned to think that private companies can best operate and maintain power plants. However, ROMELCO defied those perceptions and proof of this are the many generation projects the cooperative has ventured into,"* Tortola said in his speech.

The success of the project only demonstrates that there was no challenge too big for a determined non-profit distribution utility to fuel tourism and other industries by powering communities without harming the environment, according to the NEA official.

*"Anything is possible and the electric cooperatives, if given the chance, are the most potent arm in the quest of the national government for total electrification all over the Philippines by providing stable and clean energy at the most reasonable rate compared to the private sector,"* Tortola said.

### Defying the odds

But getting the project off the ground was not a breeze. In fact, it faced a wide range of challenges from land acquisition, importation of construction equipment, to securing permits and service contracts from the Department of Energy (DOE) and other government regulators.

*"Realizing this project was not easy,"* ROMELCO General Manager Rene Fajilagutan told his fellow member-consumer-owners who gathered for the inauguration ceremony on February 10 at the site of the wind turbine in Barangay Agnay.

*"Armed with determination, courage and passion to serve our people and for the good of the environment, we were able to overcome these challenges,"* the GM Fajilagutan added.

Standing at 42 meters each, the three units of 300-kW wind turbines will have a combined capacity to generate 2,000,100 kilowatt hours of green energy, or equivalent to 25 percent of the total annual energy requirement of the island.

These facilities will be leased to the co-op per its agreement with Komaihaltec, Inc. *"ROMELCO will take full ownership of the facilities after four years of demonstration period,"* Fajilagutan said.



**Deputy Administrator Artis Nikki L. Tortola leads the ribbon-cutting ceremony for the inauguration of the wind turbine power plant in Romblon**

**Celebrating a milestone**

With the inauguration of the wind farm, the co-op has taken another significant step towards reaching its goal of generating 90 percent of its electricity from renewable sources by 2020. “Last year, in 2018, ROMELCO was already at 39 percent,” he said.

“ROMELCO and its partners will be exploring and developing more renewable energy resources to achieve our ambition,” Fajilagutan added. He had previously mentioned to the NEA that a biomass power plant was also in the pipeline.

In recent years, the co-op had likewise established a 30-kW solar diesel hybrid generation system in Cobrador Island, and 1,350-kW mini hydro power plant in Cantingas, San Fernando, Sibuyan Island.

Komaihaltec, Inc. president Susumu



Tanaka, who was also in attendance during the inauguration, said the wind turbine power plant in Romblon was their first project in the country.

*“It has been always our hope to help remote communities, such as islands and isolated towns, to have sustainable and locally available energy source with our wind turbines,”* Tanaka said, optimistic that a similar endeavor will be replicated elsewhere in the Philippine archipelago.

*“I hope and I believe that this system will spread out to other island communities in the Philippines and in the other part of the world in the not far future,”* the Japanese company executive added.

Meanwhile, the energy produced by these wind turbines will not only power up households in Romblon, but will also charge batteries for use in electric vehicles that have recently been introduced by Honda Motor Company, Ltd. to the province.

In partnership with ROMELCO, the automobile manufacturer had chosen to pilot its new PCX electric scooters powered by Honda Mobile Power Pack detachable batteries in Romblon. It had released 100 units that have been leased to Romblomanons for P2,000 a month for four years.

*“We hope with this experience, we can inspire our fellow Romblomanons and the rest of the electric cooperatives and other electric utilities to rapidly transition from the traditional source of power to RE in the delivery of electric service to our constituents,”* Fajilagutan concluded. #

**NEA inches closer ... from page 1**

The Duterte government's AmBisyon Natin 2040 aims to transform the country into a prosperous middle-class society free of poverty by 2040.

Since 1969, the NEA, together with the ECs being the implementing arm of the government, has been at the forefront of bringing electricity to rural and remote areas through the implementation of the rural electrification program, thereby promoting economic growth and social development in the countryside.

When the Administrator assumed the NEA leadership, he came out with the seven-point electrification agenda, which includes, among others, the completion of the rural electrification program.

For the past 50 years, all the 78 provinces covering 90 cities and 1,385 municipalities in the country have been successfully electrified by NEA and the 121 ECs. Moreover, a total of 36,057 of the 36,065 barangays nationwide have attained 100 percent energization.

On its golden anniversary this August, the NEA will celebrate the achievements in the past years with events, programs and exhibitions. This year's celebration will carry the theme "NEA@50: One with ECs and MCOs for Sustainable Rural Development." #

**Power Task Force Election ... from page 1**

Engineering Department, Disaster Risk Reduction Management Department (DRRMD), Corporate Communications and Social Marketing Office (CCSMO), Information Technology and Communication Services Department (ITCSD), and Human Resources and Administration Department (HRAD).

It will be overseen by Deputy Administrator for Technical Services Engr. Artis Nikki Tortola. Meanwhile, Engineering Department Manager Engr. Ferdinand Villareal and DRRM Acting Department Manager Engr. Federico Villar, Jr. are assigned as the overall team leader and assistant overall team leader, respectively.

The task force shall render 24-hour operation to help ensure that the electric cooperatives will provide adequate and reliable electric power in their respective coverage areas before, during, and immediately after the May 13 National and Local Elections. #



# NEA to install solar hydropanels in Cobrador Island

NEA, in collaboration with the Asian Development Bank (ADB), will install solar-powered hydropanels in Cobrador Island, Romblon whose community has been deprived of access to safe drinking water for years.



This means four SOURCE Hydropanel units can yield about 20 liters of water a day.

Cobrador is under the franchise area of the Romblon Electric Cooperative, Inc. (ROMELCO). Also known as "Naguso Island," it currently does not have a desalination plant that can turn saltwater into drinking water for the daily consumption of its community.

The agency is deploying four SOURCE Hydropanel units in April, which is part of its ongoing project with ADB to help families experiencing potable water supply problems in off-grid rural areas, especially in small islands.

*"This new technology can help address the inadequate infrastructure to deliver safe and clean drinking water in remote areas like Cobrador Island,"* Engr. Ernesto Silvano, Jr., TEREDD acting department manager said.

The SOURCE Hydropanel, developed by US-based Zero Mass Water, Inc. (ZMW), extracts water vapor from the air into a proprietary absorbent material. The collected water from the hydropanels flows into a reservoir where it is mineralized with calcium and magnesium "for health and taste benefits."

On average, each hydropanel unit can produce five liters of water per day.

Barangay captain Juan Dela Cruz said they only use well water or rainwater collected from their rooftop gutters for bathing and laundry, but clean drinking water is transported from the mainland, a 45-minute boat ride.

"Noon, ang source namin ng inuming-tubig 'yung ulan. Buti na lang ngayon nauso na 'yung mineral water pero noon talaga kahit maalat-alat 'yung tubig, iniinom na, kasi no choice," the 65-year-old village chief said.

Islanders pay P45 per four-gallon container of water used for drinking and cooking. The amount is twice the price in the Romblon mainland.

Those who cannot afford a container of potable water are left with no choice but to use rainwater for drinking and cooking. Water from deep wells is unfit for consumption due to high salinity from saltwater.

Engr. Rene Fajilagutan, General Manager of ROMELCO, believes that the island's water woes can be addressed. "It can be solved, especially that there are technologies readily available," he said, adding that solar energy can also help solve the problem.

At present, Cobrador has 30-kilowatt solar hybrid power generation system that supplies cleaner and affordable round-the-clock electricity to the community of 257 households. ROMELCO is already planning to augment its capacity.#

## NEA to FICELCO: Adopt measures ... from page 2

Engr. Reynaldo Cuevas, Jr., Acting Department Manager of the NEA Management and Consultancy Service Office (MCSO), said while no significant interruptions were reported so far, FICELCO should still "adopt strategies and measures to avert occurrence of interruptions."

Based on FICELCO's data, NEA has come up with two possible scenarios on the power situation of Catanduanes next month, considering the different operating scenarios of the installed power plants and loading based on monthly demand specifically during dry season.

In the first scenario, projection in power-supply demand outlook shows there will be a thin reserve for April and sufficient power supply for the rest of the year, provided that the six units of 1.545MW (Dependable Capacity at 1.1MW) are fully operational by May 2019.

Under scenario two, there will be a deficit in capacity for the month of April given that six units of 1.545MW capacity are delivered and operational by May 2019 and the 1x3.6MW Marinawa Diesel Power Plant with dependable capacity of 2.2MW is deactivated for rehabilitation and maintenance and the 1.5MW NPC biggest genset is also deactivated in case of engine breakdown.

On March 22, 2019, two units of 1.545MW previously delivered by SUWECO in the third quarter of 2018 as part of the 6.6MW contracted capacity under the 2nd Amendment of ESA were initially put in operation and dispatch at a capacity of 1MW to avert the possible occurrence of power interruptions. #

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