Bringing Energy Solutions to You

Insights

A monthly newsletter for all GPA Customers • Issue No. 79 • October 2023

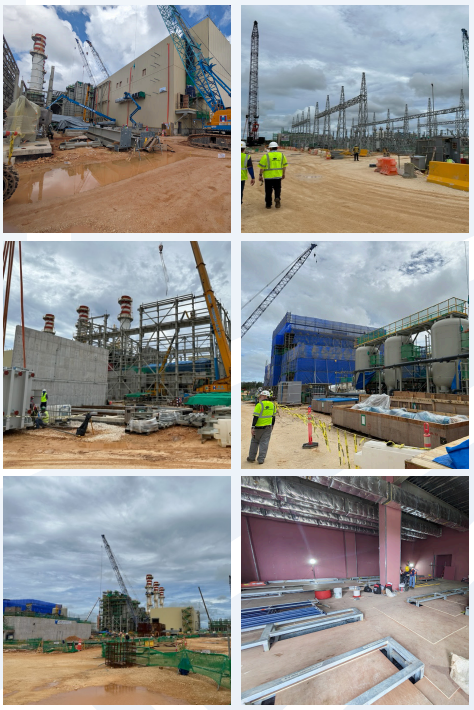
The Long-Term Solution and the Path Forward is with the Commissioning of the New Ukudu Power Plant

A Beacon of Stability Scheduled to be Online in 2026



The 198 MW Ukudu Power Plant will:

- Lower ratepayer costs
- Reduce fuel consumption through efficient machine technology
- Bring GPA into compliance with environmental regulations
- Include 25MW battery energy storage for immediate back up power
- Treat waste water for cooling and reduce sewer water ocean outfall
- Reduce water draw from aquifer
- Reduce Guam's carbon footprint by cutting oil imports by >500,000 barrels annually



GPA's Clean Energy Master Plan

GPA's Clean Energy Master Plan (CEMP) will help shape and prepare the power system for the next generation. CEMP is a comprehensive plan for transitioning Guam from legacy fossil fuel fired generation to renewable energy and non-greenhouse gas emission electric energy supply. GPA is committed to providing 50% of the island's electric power from renewable or non-greenhouse gas emissions sources by 2030 and 100% by 2040. The CEMP is a living document and continuously being updated with the most recent plan completed and approved by the Consolidated Commission on Utilities (CCU) and Public Utilities Commission (PUC) in 2022. It is GPA's roadmap to a clean, reliable, affordable, and resilient energy future. The CEMP focused on evaluating the need for new generation resources to meet future load growth, address environmental requirements, and optimize costs.

Scan to learn more about GPA's Clean Energy Master Plan.

50% baseload power plants powered by cleaner fuel; 100% non-baseload power plants powered by cleaner fuel

40MW batteries online: Minimizes outages; More planned

Road Map to 100% Renewable Energy by 2040

1. **40MW Utility Scale Batteries**
2. **Baseload Units on Cleaner Fuel + renewable**
3. **New Efficient Baseload Units**
4. **Renewables with Batteries**
5. **Compliance**
6. **End Goal: LOWER BILLS and CLEANER ENVIRONMENT**

2 utility-scale renewable energy solar farms totaling 85MW are online, with more being procured.

We've reached 16% Renewable Energy.

- **16%** Our current status
- **50%** Renewable Energy by 2030
- **100%** Renewable Energy by 2040

Public Power Week 2023

Join Us in Supporting Our Community

Each year, during the first week of October, GPA joins public power utilities across the U.S. in celebrating Public Power Week and community-owned electric utilities. Once again, GPA will include a special community-focused outreach initiative to help organizations that directly meet the community's needs and provide volunteer services to members of our intellectual community.

GPA will be hosting a canned food drive to benefit Guam's charity organization - Catholic Social Service – which will last through the month of October. GPA will also assist Special Olympics Guam through much needed donations and employees volunteering their time during weekends to assist with sports events.

Our goal is to help these organizations with the services they bring to the public and aid them in giving back to the community, and enable the spirit of giving and teamwork through volunteerism.

"Charitable organizations such as Catholic Social Service have seen an increase in the number of residents who need assistance. GPA will also help with the ongoing efforts to make our community and neighborhood a more welcoming and accepting place of all abilities," said General Manager John M. Benavente, P.E. "We invite our customers and the island community to join us in this effort to support these deserving organizations who directly help those in need and transform lives."

For more information, contact GPA's Communications Office at (671) 648-3145, or send an email to customersfirst@gpagwa.com.

Monthly Potential Outage Schedule Underscores the Importance of Interim Capacity Procurement and Ukudu Power Plant

In the wake of the challenges posed by Typhoon Mawar and its impact on our already fragile power generation infrastructure, Guam Power Authority (GPA) is notifying its valued customers of a monthly potential outage schedule effective **Monday, October 9, 2023**. Outages will be conducted according to the schedule if the anticipated demand from customers between the hours of 4 pm to 11 pm exceeds GPA's available energy capacity.

INFRASTRUCTURE AND ENERGY DEMAND
The recent damage inflicted by Typhoon Mawar has left our power generation infrastructure vulnerable and in need of attention. As we work diligently to restore full operational capacity, GPA faces the challenging task of maintaining a stable power supply amidst varying energy demand. The potential rotating outage schedule will be dependent on factors such as energy consumption patterns and overall grid stability.

Current Schedule Details

- Duration: 1-month (new schedules will be issued every month as needed)
- Effective Date: Monday, October 9, 2023
- Timing: Between 4 pm to 11pm.
- Frequency: Outages may occur on a daily basis during the specified period
- Occurrence: Outages occur when energy demand exceeds the total available energy capacity. The most vulnerable times for outages are during peak energy demand (5p-11p daily) and when traditional and renewable power generation are limited or unavailable.

CUSTOMER COOPERATION
GPA deeply appreciates the understanding and cooperation of our customers during this challenging period. We kindly ask our customers to contribute to the stability of the power grid by conserving energy, especially during the peak hours of 5 pm to 11 pm. By minimizing energy consumption during these hours, you can significantly reduce the strain on our fragile infrastructure, potentially avoiding the need for rotating outages altogether.

INTERIM CAPACITY PROCUREMENT: ADDRESSING SHORT-TERM CHALLENGES
Recognizing the urgency of the situation, GPA is actively working to secure interim capacity within the next six months. This interim solution aims to bridge the gap between our current infrastructure challenges and the full operation of the Ukudu Power Plant. By procuring additional capacity, GPA aims to minimize the impact of potential rotating outages and maintain a consistent power supply for our customers.

UKUDU POWER PLANT: A BEACON OF STABILITY
Anticipating the growing energy demands of our island, GPA emphasizes the significance of the upcoming Ukudu Power Plant. The upcoming power plant has been in progress since 2012 and is set to generate an additional 198 MW of energy as part of GPA's Clean Energy Master Plan and to bring Guam's energy grid into the future.

However, numerous setbacks to the project, including significant damage from Typhoon Mawar, have required GPA to delay the retirement of its aging Cabras units that have been in operation for 48-49 years, leaving Guam's grid in a fragile state. The milestone Ukudu Power Plant is now slated for completion in 2026 and will play a pivotal role in restabilizing our power grid. With enhanced capacity, the Ukudu Power Plant will strengthen our ability to provide reliable electricity to homes, businesses, and critical infrastructure.

CUSTOMER SUPPORT
GPA understands that these potential outages might cause inconvenience, and is here to support you. For inquiries, concerns, or more information, please reach out to GPA's Customer Service Call Center at (671) 647-5787/8/9 or CustomersFirst@gpagwa.com.

GPA thanks you for your continued patience and urges the community to visit our social media pages and website for the latest outage information.

Energy Conservation Tips



- Limit Non-Essential Usage: During peak hours, consider minimizing the use of non-essential electrical appliances and lighting.
- Adjust Thermostats: Raise your air conditioning thermostat a few degrees during peak hours to reduce cooling demand.
- Unplug Devices: Unplug electronic devices that are not in use to prevent standby energy consumption.
- Turn off your water heater between 5pm and 11pm

GPA Celebrates National Electric Drive Week

Presents Roadmap for Electrification of Guam Transportation



National Electric Drive Week takes place September 22 – October 1, 2023 and the Guam Power Authority (GPA) is commemorating it by leading the charge in electrifying transportation on the island, underscoring its dedication to sustainable and clean energy initiatives.

Powering and Facilitating the Electrification of Guam's Transportation

GPA's Clean Energy Master Plan (CEMP) presents a roadmap for the electrification of Guam transportation. GPA has developed a Request For Proposal (RFP) for Electric Vehicle (EV) Managed Charging Services. GPA expects to establish long-term partnerships with EV Charging Infrastructure firms to assist GPA in rolling out public chargers throughout Guam based on the EV market growth and the input of a steering committee comprised of local dealerships, Government representatives, and Guam Power and Guam Waterworks Authority. The RFP requires proponents to establish a local Guam physical business presence on Guam to best serve the Guam market. This RFP may award one, several, or no contracts.

The bank of public chargers installed at Government and business parking lots will use GPA wireless and fiber networks for communications, for equipment control and telemetry as well as for payment for using the charging system. GPA will monitor and telemeter several performance parameters associated with EV charging. GPA will store this information on a SQL database so that internal and external researchers can data mine and analyze the data converting it into actionable insights and information. As part of this partnership. GPA will reserve a block of energy produced by GPA's lowest cost renewable energy contracts to substitute for the LEAC or fuel portion of the electric energy charge to customers.

GPA requires use of its communication networks for cybersecurity reasons. GPA will manage EV charging to manage the growth of GPA system peaks and as demand response resources. As such, these communications and controls are operational technology systems demanding greater cyber and physical security.

GPA GOVERNANCE & LEADERSHIP

Your elected Consolidated Commission on Utilities (CCU) holds two (2) working sessions and one (1) regular meeting monthly. Meeting location is the CCU Conference Room, Gloria B. Nelson Public Service Building in Fadian, Mangilao. For more information and agencies, call the CCU Board Secretary at (671) 648-3002 or visit www.guamccu.org.

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