

# THE POWER OF ACTION



Guam Power Authority  
P.O. Box 2977  
Hagåtña, Guam 96932



2008 Annual Report





A Message from the Governor and Lt. Governor of Guam

“...A STEPPING  
STONE IN  
MOVING  
OUR ISLAND  
FORWARD...”



*Hafa Adai!* Congratulations to the Guam Power Authority on your 40th Anniversary Celebration.


For forty years, the Guam Power Authority has been committed to delivering first class service to the people of Guam. Your dedication to excellence and progress has been a stepping stone in moving our island forward. When it comes to reaching out to your community, your generous support for charitable and non-profit organizations has truly set the bar and strengthened the bond among our people.

As our island continues to embrace development, we look forward to working with you as partners in progress. We look forward to your continued success as our island's ushers in unprecedented growth and opportunity. We are proud of the Guam Power Authority's many achievements.

Congratulations and *un dangkolo na Si Yu'us Ma'ase!*

*Sinseru yan Magåhet,*

  
**Felix P. Camacho**  
*I Maga'låhen Guåhan*  
Governor of Guam

  
**Michael W. Cruz, M.D.**  
*I Segundo Na Maga'låhen Guåhan*  
Lieutenant Governor of Guam



**Simon A. Sanchez, II**  
Chairman



**Benigno M. Palomo**  
Vice Chairman GPA



**Eloy P. Hara**  
Vice Chairman GWA



**Gloria B. Nelson**  
Vice Chair & Secretary



**Joanna U. Blas**  
Commissioner



**Tom C. Ada**  
Former Commissioner-Vice Chair, GWA

A Message from the Chairman of the Consolidated Commission on Utilities

“...VENTURING  
FORWARD  
ONTO EVEN  
BOLDER  
INITIATIVES...”

When GPA was first created by legislation in 1968, GPA faced numerous challenges as a young utility tasked with supplying reliable electrical services for a changing and growing island economy. The tasks were formidable, but not unachievable; difficult decisions and bold initiatives were made by government and utility leaders to ensure that GPA met its intended mission to provide reliable electrical services as economically, efficiently and safely to the ratepayers of Guam.

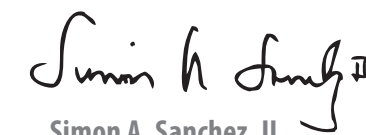
This mission has not changed over these past 40 years. In fact, it has been the Authority's commitment to this mission that has allowed GPA and our policy making body to meet more challenges directly by venturing forward onto even bolder initiatives.

Bolder initiatives that include higher standards of performance by our certified, technical and professional workforce, energizing newly constructed underground transmission lines and the completion of our integrated resource plan for acquiring alternative/renewable energy resources.

This is more than just an exciting time for GPA – it is historic period for Guam and its People. Our employees, the Consolidated Commission on Utilities and our island all had a significant role in its creation.

As Guam prepares for an unprecedented growth with an expected U.S. Military expansion, GPA will be ready to meet the demand for more reliable and quality energy services.

*Si Yu'us Ma'ase,*



**Simon A. Sanchez, II**  
Chairman, Consolidated Commission on Utilities





A Message from the General Manager  
of the Consolidated Utility Services

## “...EFFORT TO DELIVER QUALITY, SERVICE...”

Throughout my extended career in the utility industry, one factor that always determined the success or failure of any endeavor was the people behind the effort at hand. This was true throughout many of the challenges GPA faced. Taking a glance at the timelines shown throughout the anniversary section of this report, you will read about significant milestones that made the Authority what it is today. While these milestones are important, it is equally important to remember the men and women behind the scenes that made each moment a reality from the application received at customer services on through the schematic drawing to the field work order to connect a residence, business or hotel to our electrical system.

These are the faces that you will see throughout this special section. As employees form the backbone of an organization, it is their hard work ethic that is the crux of any effort to deliver quality service through available means. This often times meant working more with less or using “field” techniques to get the job done. Throughout my career at GPA, it has been my good fortune and privilege to work with like-minded professionals that made the most difficult situations manageable through teamwork.

GPA is a stronger organization due to the work of these employees and will continue to be so in the future as long as we continue to keep investing in our workforce. I believed by doing so that eventually another employee will advance through his, or her, career to become the next General Manager to continue the valued tradition of public service.

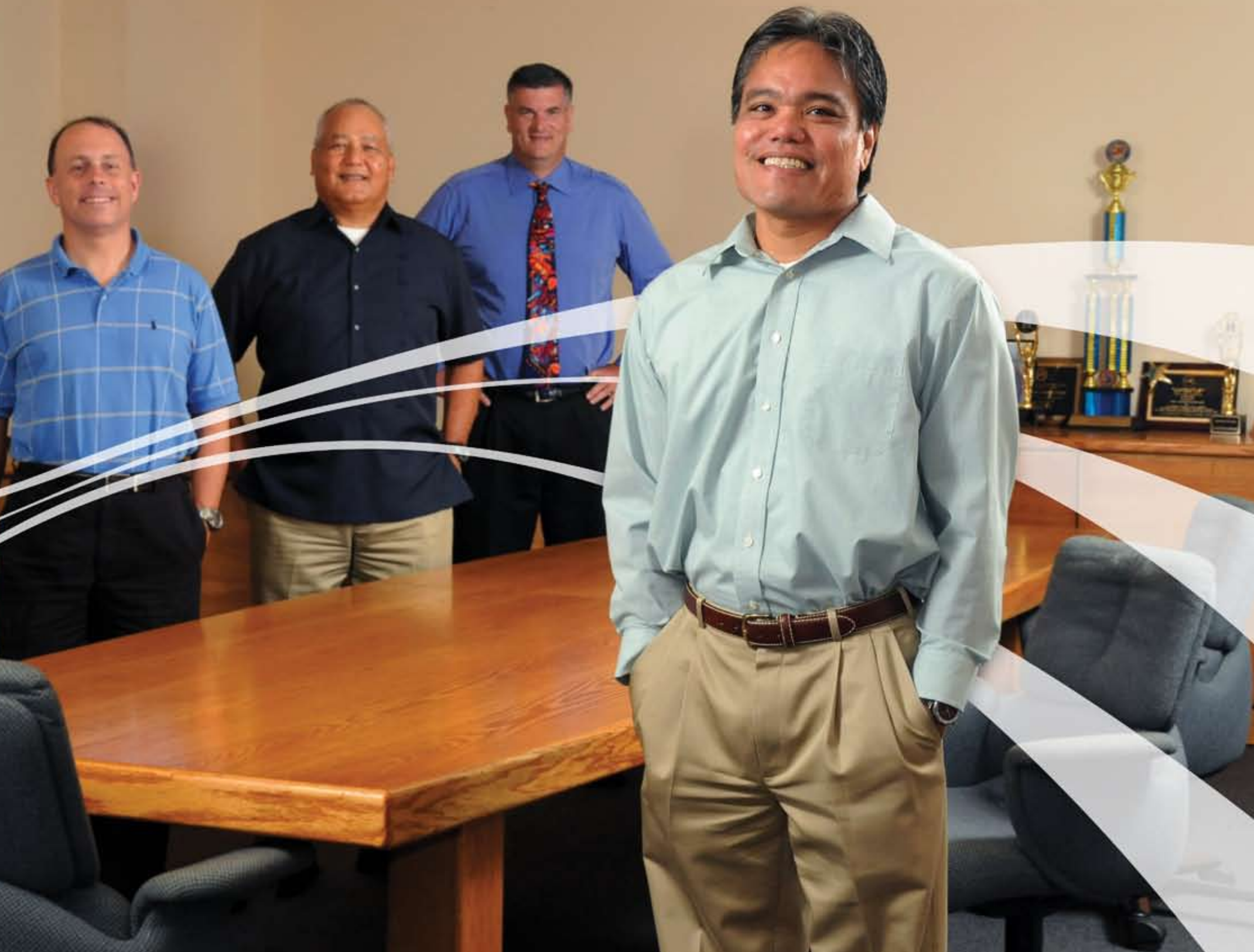
*Senseramente,*

**John M. Benavente, P.E.**  
General Manager, Consolidated Utility Services



## GPA EXECUTIVE TEAM

(L-R) D. Graham Botha, Jr., Staff Attorney, Andriano E. Balajadia, Assistant General Manager - Operations, Randy V. Wiegand, C.P.A., Chief Financial Officer and Joaquin C. Flores, P.E., General Manager, GPA.



A Message from the General Manager  
of the Guam Power Authority

“GPA CONTINUALLY  
**STRIVES**  
TO BE A LEADER IN  
**FINDING**...”  
SOLUTIONS...”

The Guam Power Authority stands out as the most progressive and results-oriented agency in the Government of Guam. GPA continually strives to be a leader in finding solutions to the many challenges affecting our island. We've developed a successful model for public/private partnerships that is being mirrored by the Port Authority of Guam and other GovGuam agencies; we've implemented a scholarship training program to insure workforce continuity; we are preparing for the additional load capacity needed for the proposed military buildup; and we are working to introduce alternative and renewable energy sources to the authority's current generation capabilities. GPA has also proved itself to be a leader in responding to natural disasters both on and off-island, and in providing community support. We are very proud of our role as a lead agency in both the government and the community, and proud of the positive impact we have made on our island.

At the forefront of GPA's 40-year history and impressive reputation are the men and women who serve as proud employees of the Guam Power Authority. These individuals are truly the finest examples of public servants that our island has to offer. I am very proud to share their legacy in the pictorial history included in the anniversary section of this report. Through the decades, the proud faces of our former and fellow co-workers tell the story of an agency in which it has been, and continues to be, an honor to serve.

I hope you enjoy this report not only for its informative value, but also as a commemoration of the contributions of GPA employees to the finest traditions of public service on Guam.

*Senseramente,*

**Joaquin C. Flores, P.E.**

General Manager, Guam Power Authority



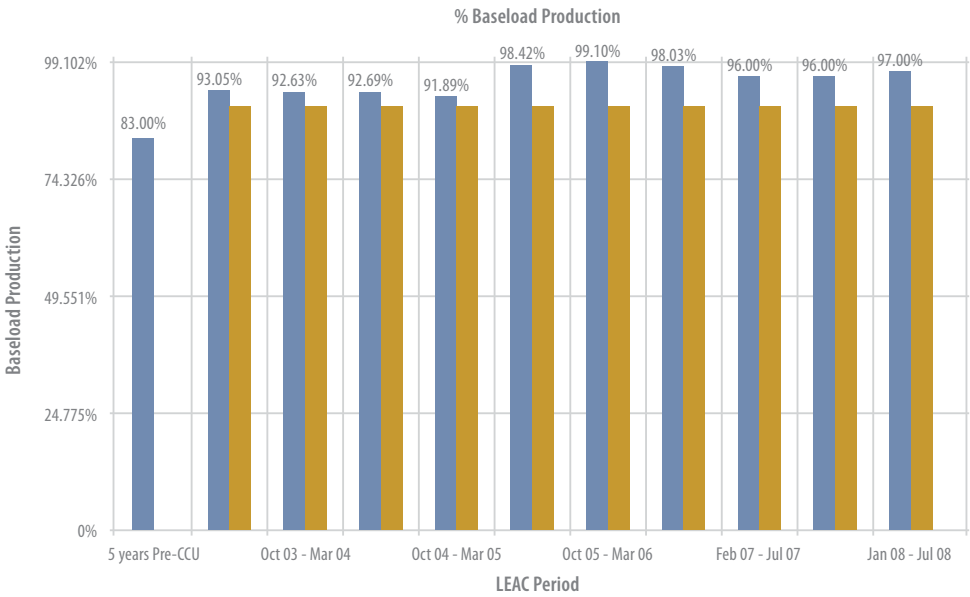


In 2008, the Guam Power Authority achieved positive outcomes as a result of its diligent efforts.

GPA’s “Power of Action” has led to success in significantly improving our island’s power system, enhancing services to its customers, strengthening its relationship with stakeholders and preparing for future growth of our island’s economy.

# IMPROVING OUR ISLAND’S POWER SYSTEM

Over the past five years the Guam Power Authority has saved ratepayers a total of \$124 million dollars in fuel and fuel related costs stemming from the 98% increase in the availability of baseload generation – 15% increase since 2003.



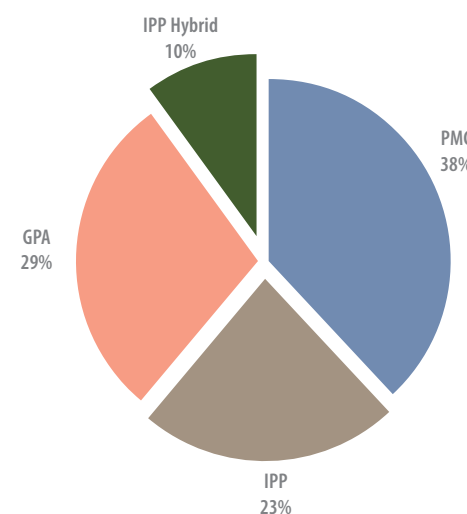


This increase in system availability is the result of ongoing partnerships with independent power producers (IPPs) and private management contractors (PMCs) who provide experienced plant operations management, expedited procurement of equipment, parts and services, as well critical “back office” technical support.

## PERFORMANCE MANAGEMENT CONTRACTS (PMC)



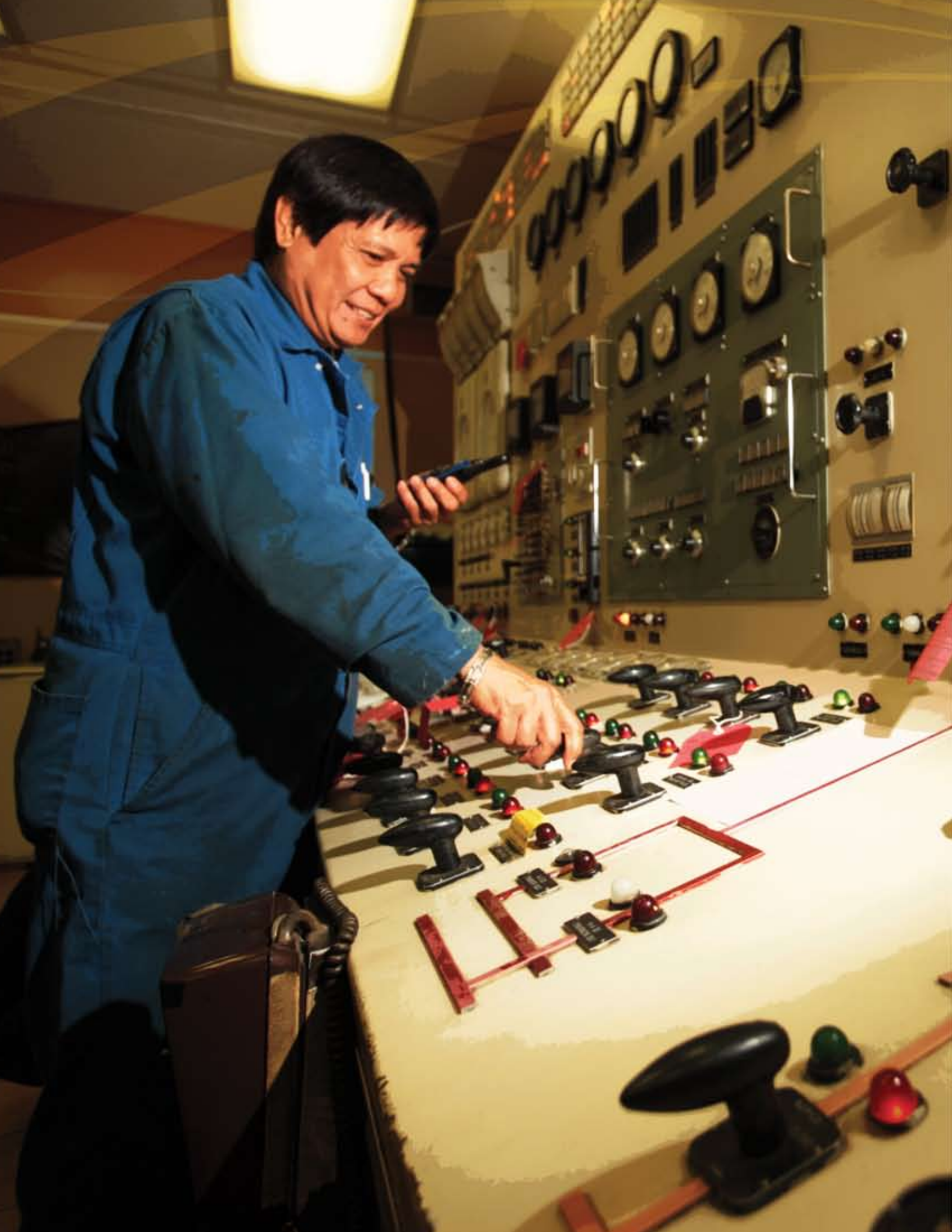
## GENERATION SOURCING



The overall efficiency of these baseload units is also supported by the Authority’s increased investments into capital improvement projects (CIPs), maintenance, supervision and technical training of GPA plant personnel. These investments included overhauls on Cabras Units 1 & 2 and major CIP projects at Cabras 3 & 4 to include the replacement of Sea Water Intake Piping Replacements, Alpha Lubricator Retrofits and upgrades to auxiliary transformers to Cabras Unit No. 4. GPA was also able to install a 750kw startup generator for emergency recovery operations.







To complement the enhancements in generation system performance, the Transmission & Distribution (T&D) places much emphasis on preventive maintenance programs that has resulted in reducing the number of forced service interruptions and raised overall customer service reliability. This was accomplished through aggressive tree trimming operations throughout 2008, particularly across the central and southern areas of Guam. Line crews focused on regions of the island with the most forced outage due to vegetation and cleared areas in preparation for contractual tree trimming services. Other line crews were also dedicated to streetlight maintenance to ensure the safety of the island’s roadways.

Preventive maintenance efforts were also underway in the central part of the island as Substation repair crews were busy with preventive maintenance of the island’s substations, particularly the Barrigada Substation by Untalan Middle School. The substation underwent a major overhaul to replace hardware on transformers and upgrades to protection equipment to better service load growth expected in Central Guam.

Other CIPs have improved GPA’s efforts to ensure faster typhoon restoration and protect its revenues, such as the installation of underground transmission lines and system upgrades. The transmission line from the Tanguisson Power Plant to the Harmon Substation is now underground and connects three critical substations – Harmon, Tumon and Tamuning, that service major energy loads across large commercial and residential areas. Other underground projects slated for completion this fiscal year include connecting the Harmon substation to Macheche power plant and the Macheche power plant to the Guam International Airport Authority. Once completed, GPA will have the Tanguisson baseload power plant and the Macheche Combustion Turbine unit connected in a “circle” that, again, can contribute to quicker restoration of power after a major typhoon.

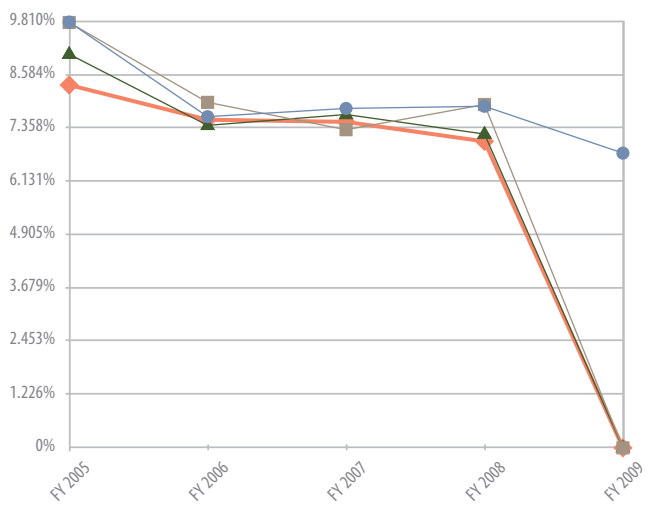
In 2009, GPA will be finalizing illumination standards to be adapted by the Mayor’s Council of Guam and the Department of Public Works to better manage public lighting along primary, secondary and tertiary roadways within the limited subsidy made available through the streetlight fund. Better illumination management through

adopted standards would reduce excessive lighting in some areas while improving lighting to those areas where more is needed like bus stops, blind curves and intersections.

As the work continues, so does the increasing need for training. GPA linemen received technical training through the U.S. Department of Interior to implement Professional Linemen Training under the tutorship and consultation with the Pacific Linemen Training company. Training courses were provided quarterly of which 47 incumbent linemen and apprentices participated. The goal of the linemen training program is to develop the knowledge and skills of GPA linemen with best practices of the utility industry. Certified linemen instructors and a course curriculum approved by U.S. Department of Labor paved the way for the Authority to provide specialized professional linemen training and address the Authority’s shortage of certified linemen.

With more CIP investments into the Island Wide Power System and with more focus on technical training for operations personnel one hallmark of GPA’s service is efficiency, and improvement. One focus is on improving everyday work processes to reduce line losses to the Authority. Team members from T&D, Engineering, Customer Services along with Finance & Accounting worked collaboratively to reduce a line loss ratio of just over 9.5% in 2005 to just above 7% in the fourth quarter of 2008 – a remarkable achievement that netted approximately \$120K dollars in back billed accounts.

LINE LOSSES AS A RATIO TO NET SEND OUT







## MOVING TOWARDS DIVERSITY

Plans to identify alternative/renewable energy sources to reduce the island's dependence on fossil fuel are currently underway. Through the Agency's Integrated Resource Plan (IRP), it has been determined that approximately 30 megawatts of potential wind energy may be harnessed at specific locations in Central Guam. GPA is expected to launch a one year wind study to determine the feasibility of a wind farm on the island in late 2009 to help determine the investment risk for potential bidders for this alternative/renewable energy project.

## BUILDING CAPACITY

The first cycle of 23 apprentices since the early 1990's graduated from the GPA Apprenticeship program in May during a ceremony commemorating their achievement towards journeyman level status to fill critical vacancies in Generations and T&D. An additional 43 more apprentices are currently receiving academic training with the Guam Community College as well as on-the-job and technical training throughout the Authority's Operations Divisions. The program is in joint collaboration between the Agency for Human Resource Development (AHRD) to fill critical technical skilled positions like linemen, instrument technicians and power plant operators.



# ADDING VALUE TO OUR CUSTOMER SERVICES

The On-line bill payment system makes it even more convenient for GPA customers to pay their bills. Another value added program includes the GPA Automated Trouble Call (ATC) System. The ATC assists with communicating recorded power outage information to customers and has significantly assisted GPA Trouble Dispatchers in managing any influx of outage calls with accurate and timely power restoration updates. The system is also used to provide registered customers with a friendly reminder message on provide contact numbers for billing updates and disconnection notices. Both systems have added another level of service in the Authority's efforts to not only improve service to all customers, but to also add a level of personal service as well.







# IMPROVING OUR FINANCIAL PROFILE

GPA has received a BBB- bond rating from Standard and Poor's and a BB+ with a positive outlook bond rating from Fitch Ratings Firm. The ratings are the result of GPA's improvements in operations, governance solidarity and fuel costs recovery. The bond rating will be beneficial in GPA's efforts to seek long term financing to implement the Integrated Resource Plan. The Authority was also able to resolve a long standing issue that affected the overall bond rating with the collection of nearly \$13.8 M for the Village Streetlight Account.

## REDUCED LOST REVENUE

The Internal Audit Office - Revenue Protection Service Program (RPS) aggressively investigated suspected meter tampering, theft of (utility) services, and theft of government property to recover lost revenues. The RPS unit conducted 274 meter investigations, up from 265 in 2007. Of the 274 meter investigations, 81 were confirmed as meter tampering, theft of utilities, or theft of government property. These resulted in the assessment of:

\$120,915.54 in back billing charges;

\$8,400 were in Meter Tampering investigation fees; and

\$231,739.84 in penalties as provided for in Public Law 24-126.

## RECOVERED RECEIVABLES

GPA collected \$13.8 million dollars from the Department of Public Works Streetlight arrears of which approximately \$2 million dollars will go to offset the current Fuel Recovery Charge and the remainder will defer the Base Rate adjustment to ratepayers until February 2009.



# GIVING BACK TO OUR COMMUNITY

While GPA invests in its employees and facilities to create a work environment that is conducive for positive and maximum output, the Agency also conducts annual training opportunities and team building events to support its efforts in making GPA a great place to work. This “whole workplace” effort encourages its employees to take an active part in giving back to our local community through events such as the Tree-Planting Ceremony, Pediatric Ward Visit, Island Beautification Projects, Canned Food Drive for local charities, Power of One – Special Olympics Donation and other school maintenance and beautification projects. It is through these community projects that GPA is able to strengthen its bond with our island community.





# 40 POWERFUL YEARS

1968-2008



40th Anniversary

## REMEMBERING...

Our GPA colleagues who have gone before us,

## HONORING...

Their contributions to public service,

## CELEBRATING...

Their lives here at GPA

Throughout four decades of service to the people of Guam, GPA has remained true to its core mission to improve the quality of life on the island. None of this could be made possible without the diligence and determination of our GPA employees - of today and yesterday –to make things better for our island in which we call “home”.

### PREVIOUS BOARD CHAIRPERSONS & MEMBERS

#### CHAIRPERSONS

Felix Calvo  
George Ingling  
Eugene W. Shardt  
Charles W. Spero  
Joe T. San Agustin

Mark V. Pangelinan  
John L. Kerr  
John K. Lee  
Jesus Camacho  
Juan M. Duenas

David Ulloa  
David J. Sablan  
Joann G. Camacho  
Frank S.N. Shimizu  
Joe Cruz

#### MEMBERS

Frank Lujan  
Priscilla Cruz  
Richard Netzley  
Jose C. Indalecio  
James McClain  
Scott El Payne  
Joaquin G. Blaz  
Frank P. Torres  
Tomas J. Flores  
Charles W. Spero  
Jose B. Cruz

Jose D. Leon Guerrero  
Jesus R. Camacho  
Pete R. Sgro  
Francisco Q. Taitano  
John M. Vega  
Cleotilde Paulino  
Gil Santos  
Robert Olaya  
Francisco Carbullido  
Luis Hernandez  
Doris Flores Brooks

Charles J. Turosik  
Clare S. Lee  
Clifford A. Guzman  
Ovidio A.R. Calvo  
Nancy T. Leon Guerrero  
William H. Flores  
Edward R. Ilao  
Marilyn P. Megofna  
Grace Low  
Vicente A.C. Lujan

### PREVIOUS GENERAL MANAGERS

T.W. Bostwick  
George S. Pomeroy  
Francisco Q. Taitano  
John E. Onedera  
Agusto S. Delgado  
Paul E. Cavote

Frank G. Blaz  
Joaquin P. Perez  
Thomas C. Ada  
John M. Benavente, P.E.  
Richard Young  
Sonny A. Shelton

Raymond Camacho  
Ricardo S. Unpingco  
Thelma A. Perez  
(T. Ann Perez)  
Joseph B. Leon Guerrero

### PREVIOUS CCU

Vincent C. Camacho  
Judith P. Guthertz  
Tom C. Ada  
Joann Margret Blas

Source: Quarter Century Review & GPA's Annual Reports





## OFFICIAL GROUND BREAKING CEREMONY

1969 - RADM Philip P. Cole and Governor Manuel Guerrero break ground for the new Tanguisson Power Plant. Assisted (from left to right) Mr. Boy Wright of Martin-Close-Massart, the contractor; Capt. Robert H. Nelson, CEC, USN, Officer in Charge of Construction, Marianas; Mr. Rudy Sablan, Executive Assistant to the Governor; Capt. William R. Rogers, CEC, USN, Deputy Commander, Pacific Division Naval Facilities Engineering Command; and Capt. Lewis G. Timberlake, CEC, USN, Commanding Officer Navy Public Works Center, Guam.



### GOVERNOR CARLOS G. CAMACHO

Camacho started the Guam Power Authority. He had the Cabras Power Plant built. This ended our dependence on the U.S. Navy for electrical power.

## 1969 GROUNDBREAKING

In March 1969, The Public Utilities Agency of Guam transferred to GPA all items of property, materials and other assets and liabilities pertaining to the electrical utility operations of the Agency.

### 1970

GPA sold \$1,425,000 in Guam Power Authority bonds at an interest rate of 6.5 percent to the Bank of America in San Francisco, marking a first of Guam. GPA installed four high-speed diesel generators capable of providing 11,000 KW of electric power and significantly reduced the number of village blackouts.

### 1971

The GPA Board authorized the Navy OICC, Marianas to enter into a contract with the firm of Martin-Close-Massart to build Guam's first baseload steam electric generating plant, a 25-megawatt unit to be located adjacent to the U.S. Navy power plant at Tanguisson point. GPA began construction on four 2,500 KW General Motors diesel units at its Dededo Diesel Plant.

### 1972

The power barge inductance loaned to GPA by the U.S. Navy was towed from Okinawa to Guam. GPA's Dededo Diesel Plant became operational on October 15, 1972. An agreement was signed between the Government of Guam and the U.S. Government establishing 1975 as the target date for GPA to assume full control of the island wide power system, with the Navy as its largest signal customer.

### 1973

GPA's Tanguisson #2 unit, a steam-turbo electric generating plant was completed and came on-line.



### 1974

GPA's Cabras #1, a 66-megawatt reheat type steam turbo electric generator came on-line. The unit was financed by a \$25 million bond sale. A GPA Cabras #2 unit was scheduled to be operational by the following year, with two additional (Cabras #3 and #4) units projected for 1978 and 1979 respectively.



### 1975

#### ISLANDWIDE POWER SYSTEM

GPA received permission from the U.S. Army with the concurrence of the U.S. Navy to remain in possession of the power barge inductance for four additional years until September 1979. Public Law 13-10 granted GPA a \$3.0 million subsidy for operation.

### 1976 TYPHOON PAMELA STRIKES GUAM

In May 1976, Typhoon Pamela struck Guam and caused \$3.2 million in damages to GPA's system. By November 1976, Guam's power system was substantially restored to normal operations. The U.S. Government granted a \$36 million dollar loan guarantee to GPA with stipulations to be established by the U.S. Department of Interior.

### 1977

In addition to the physical destruction related to Typhoon Pamela, GPA worked to recover its operation losses caused by the storm and suffered a period of unsettled billing and collection conditions. GPA was able to restore its business operations and make improvements in billing procedures and metering to reduce the unaccounted amounts for KWH losses to predictable losses caused by physical characteristics of the distribution lines.

### 1978

Established a policy of replacing secondary distribution wood poles with concrete poles. The long-range objective was to strengthen the entire distribution system and to place it in a first-class typhoon resistant upgraded operating condition. It was estimated that "several years" may be involved for this work.





1979

The Guam Public Commission granted a 10.7 percent rate increase for GPA to meet contractual obligations and debt service levels required by creditors.

1981

Inflation and the decline of kilowatt hour sales created a cash crunch. GPA filed for another rate increase with the Guam PUC. The Guam Legislature passed a resolution advising the PUC to take no action on the request to avoid placing a burden upon GPA customers. The Legislature indirectly obligated itself for some relief and offered a \$4.3 million subsidy to GPA in lieu of a rate increase as a temporary measure. The Guam Legislatures abolished the Guam PUC under P.L. 16-49.

1980

#### PUBLIC INTEREST IN ALTERNATIVE ENERGY

The cost of oil rose from \$12 per barrel in July 1979, to \$25 per barrel by January 1980. Residential power consumption declined from 927 KWH/month to 735/month for the same period. GPA continued to search for alternatives for compliance with its obligations under the Clean Air Act and the Clean Water Act. The public voiced its concern and interest in exploring alternative energy including Ocean Thermal Energy, windmills and solar energy. A 2.1 percent rate increase became effective July 1.



1982

Inflation continued to rise, GPA requested a rate increase to continue serving as a reliable, viable utility and the public continued to resist any rate increase measures. In March, the Guam Legislature froze all rates. Employee wages and recruitment efforts were also frozen, resulting in an 11 percent staff reduction. Construction was virtually abandoned except for customer service requests and pole hardening on isolated circuits.

1983

The Trustee for the outstanding revenue bond served notice on GPA of alleged default under the trust agreement of the bond indenture, mainly the erosion of autonomy caused by P.L. 17.10 and insufficient debt service coverage for an ensuing 12 month period. This claim was withdrawn in February 1985.

1984

The Secretary of the Interior signed the Second Refinancing Agreement (SRA) to extend the terms of repayment of a \$36 million loan. Public Law 17-77 established alternate energy criteria that GPA should meet in contracting for alternate energy or cogenerations with proposed suppliers. Public Law 17-74 created the Guam Public Utilities Commission to approve the level of rates which GPA charges its customers.

1985  
REDUCED  
ELECTRIC RATES

In April 1985, a PUC decision and order reduced electric rates GPA charged by 4.2 percent. The Administrators of the U.S. EPA on May 24, granted a continuing exemption to GPA under the provisions of Section 325(b) of the Clean Air Act, as amended.



1986

Completed the congressional mandated Ernst & Whinney Study proposing standards and guidelines to strengthen the growth potential for future generators and allow GPA to effectively assume control of the island wide power system. As a result of the study, GPA went to work in the initial planning of the study's most cost effective recommendation for the construction of a 25-megawatt unit by 1990.

1987

Power Pool negotiations continued relative to terminating the existing Power Pool Agreement between GPA and the U.S. Navy, with the Navy becoming a customer of the Guam Power Authority.

1988  
COMBUSTION TURBINE  
GENERATOR ADDITION

Joint manning of the island wide power system between GPA and U.S. Navy was terminated and dispatch operations became solely GPA's responsibility. Conclusion of the Power Pool negotiations was closer. GPA completed for a 23-megawatt combustion turbine generator addition.





**1989**

After nearly two years of arduous negotiation, GPA and the U.S. Navy finalized the Power Pool agreement. GPA completed negotiations for a 23-megawatt combustion turbine unit to come on-line in 1991.



**1990**

#### GULF WAR INCREASES RATES

GPA suffered a 30 percent loss of its generating capacity over 81 days due to a boiler explosion in its Cabras #1 Unit. Higher fuel prices affected customer's power bills caused by events of the Gulf War in the Middle East. GPA broke ground for the construction of Deeded CT #1

**1991**

GPA recorded a 13.3 percent growth the largest growth level recorded over the provisions eight years. The Guam PUC approved the GPA-U.S. Navy Customer Supplier Agreement and the agreement was forwarded to the Guam Legislature for approval.

**1992**

Governor Joseph F. Ada signed into law the GPA-U.S. Navy Customer Supplier Agreement, making the U.S. Navy a customer, moving GPA closer to being the sole producer of electrical power. GPA's Dedee CT#1 came on-line in March. GPA worked to design, construct and complete the installation of emergency generators at 139 PUAG water well and booster pump sites.

**1993**

#### EMERGENCY "FAST TRACK" GENERATORS

Installed approximately 84-megawatts of emergency generating capacity known as the "Fast Track" generators. GPA continued the construction of emergency generators at 139 water well pumps and facilities. The Guam PUC approved GPA's first baseload power plant addition in almost 20 years to be designated as Cabras #3. GPA served the U.S. Navy for the first full year as a retail customer under the contractual terms of the GPA-U.S. Navy Customer Supplier Agreement, resulting in \$2 million in savings for Guam's civilian ratepayers. GPA transacted the sale of \$158 million in revenue bond series 1992 at a favorable yield of 6.6 percent. GPA's second issuance of \$100 million at an interest rate of 6.5 percent occurred in November.



**1994**

Completion of the following projects: Construction of Pulantat Substation and of the 34.5 kV line to Tumon (P243 & P241) and the Agat to Umatac 34.5 kV Line.

**1995**

#### HURRICANE MARILYN STRIKES THE VIRGIN ISLANDS

GPA provided assistance to the Virgin Islands to get their power back on when Hurricane Marilyn hit.



**1996**

GPA contracts for 170 mega watts. These assets will be owned and operated by private off-island firms. GPA will pay capacity and energy charges to these three firms: HEI Power Corporation Guam, Taiwan Electrical and Mechanical Engineering Service (TEMES) and ENRON Development Piti Corporation. These contracts run for twenty years. After this twenty-year cooperation period, the three firms will turn over the generation assets to GPA.



**1997**

Public Private Partnership for Guam HEI Power Corp. Guam on July 19, 1997, dedication of Tango and adoption of the Tango Beach Park.

**1998**

Temes Electrical & Mechanical Engineering Services, Inc., commissioning the Temes 40 Megawatt Combustion Turbine Power Plant on August 18, with Governor Carl T.C. Gutierrez and Lt. Governor Madeleine Z. Bordallo, at Piti Guam.





1999

#### POLE HARDENING AND UPGRADE PROJECTS AND UNDERGROUND CONVERSION

With the efforts of many different parties within GPA, the rollover into the year 2000 (Y2K) came through without any incident. Pole Hardening and Upgrade Projects: GPA focused on improving GPA distribution systems within project areas: GW, GCC and UOG pole hardening and upgrade was completed; Perezville Underground Phase II: project was designed to provide civil infrastructure for future underground customer conversions; and Tumon Underground Conversion: part of Tumon Redevelopment Plan to beautify "Hotel Row" along San Vitores Boulevard from Route 1 to Westin Resort Guam on through to Fujita Hotel underground system.

2000

CSD focused on completing hardware and software conversions to newly acquired equipment and software modules from existing IBM ES9000 systems to the AS/400 systems vastly improving internal customer services.

2001

Construction of the Guam International Airport Terminal (GIAT) began in April with a project scope involving the installation of a 34.5 kV line to the GIAT switching station to provide loop feed service.

2002

GPA opens Tiyan Customer Service Satellite Office.

2003

#### NEW BUCKET TRUCKS

Typhoon Pongsona recovery: 99% completion by Feb. 8. PMC contracts for Cabras I & II with Taiwan Electrical & Mechanical Engineering Services (TEMES). New bucket truck purchases for T&D division.



2004

Apprenticeship program was reinstated with 64 applicants chosen for two phase recruitment. Creation of Strategic Planning & Operations Research Division (SPORD).



2005

#### UNDERGROUND LINE CONSTRUCTION FOR GMH BEGINS

Groundbreaking ceremony held along Archbishop Flores Memorial Circle in Tamuning on June 21 to commemorate the underground line construction of the P-401 underground project towards the Guam Memorial Hospital and the P-003 underground project in Cabras Island. GPA opened new Hagåtña Satellite Office on July 5.

2006

#### GPA WINS GOVERNOR'S MAGHOPE AWARD

In 2005 & 2006 GPA won the Governor's MagHope Awards GovGuam Wide, Department of the Year – Large Agency. The Guam Power Authority broke ground on two 34.5 kV underground (U/G) line conversion projects that will link three major substations across central Guam; the Harmon to Tumon transmission line and the Tumon to Tamuning transmission line. Kinden Corporation was the contractor for both projects with funding from hazard mitigation grants and GPA revenue funds.

2007

More GPA customers signed up and paid their electric utility bills online; as of March, more than 3111 residential customers have signed up for the free online service. GPA Bill pay is available to residential customers, "Last month, GPA hit the \$1 million dollar mark for online utility bill payments," stated GPA General Manager Joaquin C. Flores, P.E., "I encourage more of our residential customers to register their electric utility accounts and make their payments online."

2008

#### COMPLETION OF HARMON TO TUMON 34.5 KV UNDERGROUND LINE CONVERSION AND TAMUNING TO TUMON 34.5 KV UNDERGROUND LINE CONVERSION.



## FLUORESCENT VS. INCANDESCENT

Turn off lights that are not being used or are unnecessary. Use task lighting versus area lighting when possible. Maximize use of natural light when possible. Install fluorescent or compact fluorescent bulbs versus incandescent bulbs.

# ENERGY CONSERVATION TIPS

- Utilize your major appliances such as air con, electric dryer, electric stove, according to a schedule for use within your home. Consider purchasing gas-operated appliances versus electric. Avoid running your appliances at the same time.
- Keep your roof clean of debris and keep drains clear. Weatherize your roof by removing algae build up with bleach and water blasting. Paint your roof with primer and insulation/roofing paint.
- Install awnings and close curtains on south and west facing windows for more shade. Consider light shading or tint to reduce direct sunlight when possible. Properly insulate or caulk cracks on window seals to prevent cool air from escaping.
- Set thermostat on air con units to 76 degrees Fahrenheit. Turn off unit when not home. Keep filters clean every week and do not block airflow to grills. Purchase energy efficient air con units. Use a fan to help circulate cool air.
- Clean coils located on the back or underside of your refrigerator. Allow hot food to cool before placing in the refrigerator. Open the refrigerator door only as often, and as long, as necessary. Replace worn seals.
- Turn off all office equipment and lights every night and weekend. Purchase ENERGY STAR® models that power down after a user-specified period. Use laptop computers and inkjet printers.
- At the office, use multiple switching and dimmers to reduce unnecessary lighting. Clean the grease, dust and other dirt regularly off of bulbs, fixtures, lenses, lamps and reflective surfaces to increase light output.
- Install a programmable thermostat to your air conditioning unit at the office. Use fans to help circulate air. Keep the window coverings closed to prevent solar gain. Don't place lamps or TV sets near your air conditioning thermostat.
- For refrigeration units at your business, perform scheduled maintenance, especially keeping evaporator coils clean and free of ice build-up. Adjust door latches, replace worn door gaskets, install auto closers, and add strip curtains to walk-in doors.
- Replace all electric food service equipment with comparably sized gas-fired equipment. Use cooking equipment to capacity. Filter fryer oil at least once a day to extend the oil life. Make sure oven doors fit tightly and gaskets are in good condition.
- Install electronic time clocks or setback-programmable thermostats to HVAC equipment. Install locking covers on your thermostats to prevent employee tampering with temperature settings. Perform regular maintenance.



# SPECIAL MEMORIES

As the Guam Power Authority celebrates over 40 years of operations, we take a moment to remember our colleagues who were with us along the way, but who are conspicuously absent today.

- 1970    **Jose M. Crisostomo**, Electric Operation Trainee
- 1974    **Jose G. Manibusan**, Electric Operation Trainee
- 1978    **Thomas T. Meno**, Line Electrician Leader
- 1984    **Frank P. Concepcion**, Electric Troubleshooter
- 1989    **Pete D. Cepeda**, II Electric Operation Trainee
- 1989    **Juan S. Santos**, Electrician Troubleshooter
- 2002    **Patrick V. Respicio**, Substation Electrician Leader

The memory of these unsung heroes lives on at GPA and we treasure their contributions and their families' sacrifices to GPA's mission and the People of Guam.

# ACKNOWLEDGEMENTS

Honorable Felix P. Camacho, Governor of Guam  
Honorable Michael W. Cruz, M.D., Lieutenant Governor of Guam

## CONSOLIDATED COMMISSION OF UTILITIES

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Benigno M. Palomo, Vice Chairman Guam Power Authority  
Eloy P. Hara, Vice Chairman Guam Water Works Authority & Treasurer  
Gloria B. Nelson, CCU Secretary  
Joana "Margaret" Blas, Commissioner  
Tom C. Ada, Former Commissioner & Vice Chairman, Guam Waterworks Authority

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John C. Crisostomo	Safety Administrator
Julie L. Quinata	Personnel Services Administrator
Rudy Manibusan	Systems Manager, Acting

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American Public Power Association  
Pacific Power Association  
Institute of Electrical & Electrical Engineering Incorporated  
International Rights of Way Association  
National Safety Council

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