GOVERNMENT OF GUAM
PROJECT PORTFOLIO
SAME INDUSTRY FORUM
2019
PORT MODERNIZATION at a GLANCE

Port Modernization Program Update
SAME 2019 Guam Industry Forum
Hyatt Regency Guam Hotel
August 8 - 9, 2019

- DoD / MARAD Guam Commercial Port Improvement (GCPI) Program
  $ 50 Million

- DHS / FEMA Port Security Grant Program
  $ 12.3 Million

- DOI OIA / FWS / FWA /PAG Funded Program
  $ 9.1 Million

- USDA / PAG Equipment Acquisition Program
  $ 16.9 Million
Ongoing Projects (2018 - 2020)

- Hotel Wharf Upgrade & Access Road Repair
- Golf Pier Repair
- Waterline, Warehouse 1, & EQMR Building Repair
- Terminal Booth & CMU Wall Repainting & Barb Wire Replacement
- Container Yard Striping
- Load Center Rehabilitation and Upgrade
- CCTV and Access Control System Upgrades
- Agat Marina Dock B Demolition & Repair
- Harbor of Refuge Repair
- Gantry Cranes 2 & 3 Demolition
- Tariff Simplification Project
- Environmental, Health, & Safety Program Development
The Way Forward (2019 - 2022)

Planned Modernization Initiatives

• 2020 Master Plan Update
• JDE World Migration to JDE EnterpriseOne Financial Management system
• New Crane Acquisition Program
• Port Wharves Assessment & Upgrade
• F1 & Golf Pier Fuel Connectivity Pipeline
• Deep Draft Wharf Improvement Project Feasibility Study
• Customs Inspection Feasibility Study
Port Authority of Guam

Dominic Muna
Acting General Manager
dgmuna@portguam.com
CIPs
IN-PROGRESS

- 3rd Floor International Arrivals Corridor (WIP)
- TSA Security Screening Expansion (WIP)
- ARFF Facility (WIP)
CIPs UNDER SOLICITATION

• Airport Aprons & Taxiway Rehabilitation
  (Pending FAA approval of NTP for construction)

• Runway 6L Rehabilitation
  (Pending FAA approval of NTP for construction)

• Cargo Apron-Extend Fuel System – Design
  (RFP issued for 2019 for Design Phase)
Spaceport Certification
(Pre-application process underway)
OTHER AIRPORT DEVELOPMENT

• Ground Transportation
  Commercial Parking

• Ground Transportation/Parking
  Garage P³ Partnerships
  • In planning phase for FY2020
  • $5.5m annual revenue
ARRIVING IN 2020

**MASTER PLAN UPDATE**
- Update to 2012 Master Plan
- Maximize capacity
- Optimize revenue generation

**RESIDENTIAL SOUND SOLUTION PROGRAM**
- Noise Compatibility Study
- Update NEMs

**ROADWAYS**
- Tiyan Parkway Phase II
- Route 10A (Airport Road Expansion)
- Mitigate traffic flow during construction period

**HVAC & ELECTRICAL UPGRADES**
- Cooling system & airfield lighting upgrades
- Integrate energy efficient systems & green technology
Department of Public Works Projects
Key Future Projects

- Route 1 Replacement of Multiple Bridges (Hagatna to Piti): GU-DAR-0001(131)
  - Anticipated Advertise Date: 2020 (Design) & 2022 (Construction)
- Under Pavement Infrastructure Retrofit: GU-DAR-0001(131)
  - Anticipated Advertise Date: 2020 (Design) & 2022 (Construction)
- Route 5 and Portion of Route 12, Reconstruction and Widening: GU-NH-0005(003)
  - Anticipated Advertise Date: 2022
Projects in Design

• Route 1, Atantano Bridge, Temporary Repair
  • Estimated Value: $0.5M
  • Anticipated Advertise Date: Fall 2019

• Route 1 Resurfacing from Route 30 to Route 10A
  • Estimated Value: $4.5M
  • Anticipated Advertise Date: Fall 2019

• Route 20 Tiyan Parkway, Phase 2 (Sunset Boulevard to Route 10A)
  • Estimated Value: $22M
  • Anticipated Advertise Date: TBD
On-Going Construction Projects

- Route 3 Widening (Route 28 to Chalan Kareta)
  - Current Contract Value: $45.6 million
  - Anticipated Completion: May 2020
- Route 1 / Route 8 Resurfacing and Route 8 / Canada Toto Loop Road Intersection Improvements
  - Current Contract Value: $9 million
  - Anticipated Completion: February 2020
- Route 1 / Route 3 Intersection Improvements
  - Current Contract Value: $7.2 million
  - Anticipated Completion: November 2019
Guam Water and Wastewater Infrastructure Improvements
OEA Grant 1
Interceptor Sewer Refurbishment Project

- Sewer runs from AAFB to NDWWTP
  - 45,000 LF
  - 18” to 42” diameters
  - Approx. 130 manholes
- Refurbishment method: Ultraviolet Cured-in-place Pipe
Interceptor Sewer Refurbishment Quick Facts

- Design-Builder: Core Tech – Hawaiian Dredging, LLC
- Contract Amount: $22,897,808
- Design-Build Notice to Proceed: September 4, 2018
- Final Completion: September 19, 2020

Current Activity:
- CCTV of sewer line and manholes
- Mobilization of CIPP liner, bypass piping and pumps
- Final design documents
OEA Grants 2, 4, and 5
Northern District Wastewater Treatment Plant Upgrade Project
Treatment Upgrades Include:

- Screening and grit removal
- Activated sludge process: Oxidation Ditches
- Secondary clarification
- Sludge thickening
- Centrifuge dewatering

- Possible ATAD digestion system
- UV disinfection
- Possible upgrades to septage receiving and administrative building
NDWWTP Upgrade Quick Facts

- **Prime Designer:** Duenas, Camacho, & Associates
  - Contract Amount: $9,000,000
  - Notice to Proceed: August 8, 2017
  - Final Design Completion: March 4, 2019

- **Site Preparation Contractor:** IAN Corporation
  - Contract Amount: $599,998
  - Notice to Proceed: Not yet issued
  - Final Completion: July 2019

- **Vertical Construction Contractor:** Out for Bid
  - Final Completion: December 31, 2021
NDWWTP Ocean Outfall Diffuser

- 1,950 feet offshore from Tanguisson Beach
- 2008 Outfall is 140 feet deep
NDWWTP Ocean Outfall Diffuser Quick Facts

- Prime Designer: Brown and Caldwell
- Prime Contractor: To be determined
  - One bid received on September 13, 2018, but exceeds budget
  - On-water construction: March - July 2020
- Final Completion Goal: September 2020
- Current Status:
  - Discussing value engineering options with contractor to reduce construction cost

Brown and Caldwell

moffatt & nichol
OEA Grant 3

NGLA Monitoring System Expansion/Rehabilitation Project

- Monitoring the NGLA ensures adequate supplies of quality potable water
- 7 new groundwater monitoring wells on DoD property
- 12 wells to be rehabilitated on DoD, GovGuam, and private property
- Captures data for sub-basins not currently monitored
- Discussing GWA-Navy cost sharing for program sustainment
NGLA Monitoring System Quick Facts

- **Prime Designer:** Brown and Caldwell
- **Prime Contractor:** To be determined
- **Final Completion Goal:** December 2021
- **Estimated Construction Cost:** $3,200,000
- **Estimated Construction Time:** 15 months
- **Current Status:**
  - Design finalized
  - Awaiting final military site approvals for two wells
  - Coordinating with SHPO, GANDA, and USEPA on archaeological surveys
  - Coordination with USEPA for Environmental Assessment, NEPA Permitting Process
Guam Power Authority
SAME Industry Forum
August 9, 2019
PHASE II RENEWABLE ENERGY ACQUISITION

• Solar PV + Battery Energy Storage System (BESS)

• Hanwha
  • 60 MW Solar PV
  • Renewable Integration BESS
    • 45 MW
    • 65 MWH
  • Energy Shifting BESS
    • 15 MW
    • 15 MWH

• KEPCO/LG CNS
  • 60 MW Solar PV
  • Renewable Integration BESS
    • 32 MW
    • 32 MWH
# SPORD Projects

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<tr>
<th>Ongoing Procurement</th>
<th>Assigned</th>
<th>Area</th>
<th>Description</th>
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<td>MAT</td>
<td>Fuel/Operations</td>
<td>Handling and Hauling Used Oil/Used Oil Processing</td>
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<td>MAT</td>
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<td>RAC</td>
<td>Distribution Studies</td>
<td>Consulting for Advanced Distribution Studies using Smart Grid Analytics</td>
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<td>RAC</td>
<td>Electric Vehicle Infrastructure</td>
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<td>RAC</td>
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<td>Fuel/Operations</td>
<td>GPA Bulk Storage Facility PMC</td>
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<td>Fuel/Operations</td>
<td><strong>ULSD Bulk Supply (New Power Plant + All Locations)</strong></td>
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<td>ANF</td>
<td>Fuel/Operations</td>
<td>WSD ULSD Supply</td>
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## Engineering Construction Projects (1-20)

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<th>Item #</th>
<th>Capital Improvement Project Name</th>
<th>Proposed Budget ($000)</th>
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<td>Upgrade Fire Protection Manenggon Diesel</td>
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<td>2</td>
<td>Tumon Bay Lateral Conversion</td>
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<td>4</td>
<td>Generator Protection Upgrade with Fault Recorders</td>
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<td>Agat Shoreline Pole Restoration Project</td>
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<td>6</td>
<td>System Protection Imprvmt &amp; Cap Bank Controllers</td>
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<td>7</td>
<td>Network Communication - Fiber to Fadian Complex</td>
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<td>8</td>
<td>Mobile Workforce Management</td>
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<td>Facilities Physical Security</td>
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<td>10</td>
<td>SGIG (not covered by grant)</td>
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<td>Substation Navy Metering Changeout</td>
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<td>Substation Snake Fence (All Outdoor Substations)</td>
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<td>Dededo Substation Capacitor Bank</td>
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<td>LED Streetlight Conversion and T&amp;D Line Maintenance Support</td>
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<td>Tank Farm Pipeline Upgrade</td>
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<td>115 kV and 34.5 kV Breaker Upgrades</td>
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<td>Network Communication - Fiber to All Substations</td>
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<td>Substation and Transmission Improvements</td>
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## ENGINEERING CONSTRUCTION PROJECTS (21-40)

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<td>T&amp;D Master Plan (Transportation)</td>
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<td>T&amp;D Master Plan (T&amp;D Admin, Meter/Relay)</td>
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<td>System Protection Upgrade (34.5 kV Line Clearing Times Reduction)</td>
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<td>Predictive Based Maintenance - Islandwide</td>
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<td>25</td>
<td>Tank 1934 &amp; 1935 API Inspection (Recertification) and Refurbishment</td>
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<td>New USLD Pipeline System (Navy Tie-In to Tank Farm/Power Plants)</td>
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<td>27</td>
<td>Tenjo Vista Remote Control System/Auto-Start</td>
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<td>Pole Numbering</td>
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<td>System Protection Upgrade (115-kV and 34.5 kV Line Clearing Times Reduction)</td>
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<td>Tumon Bay Lateral Conversion - Revenue (PDM 25% Match)</td>
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<td>GBNPSB - 2nd UPS System</td>
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<td>GPWA Tumon Office Renovation</td>
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<td>Streetlight/Line/Transformer Monitoring</td>
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<td>Typhoon Mangkhut Permanent Repairs (75% FEMA Funded)</td>
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<td>GPA Tank Farm Access Road Rehabilitation (50% PAG Funded)</td>
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<td>KEPCO/LG ESS Ancillary Services</td>
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<td>Kaiser Hybrid Conversion (San Antonio Avenue) - FEMA PDM 25% Match</td>
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<td>Kaiser Hybrid Conversion (San Antonio Avenue)</td>
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<td>Disaster Recovery Office Building</td>
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<td>Automatic Generation Control (AGC)/Economic Dispatch (ED)</td>
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## Engineering Construction Projects (41-59)

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<td>Talofofo ESS (Upgrade)</td>
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<td>Tenjo Vista Firewall and Transformer Relocation</td>
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<td>Apra Heights Substation - 115/34.5 kV Transformer Upgrade</td>
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<td>Machoche/Yigo CT Remote Control System/Auto-Start</td>
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<td>Synchronous Condenser Modification of TEMES Combustion Turbine</td>
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<td>Synchronous Condenser Modification of Machoche CT</td>
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<td>Synchronous Condenser Modification of Yigo CT</td>
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<td>Machoche CT Control System Upgrade</td>
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<td>Yigo CT Control System Upgrade</td>
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<td>Marbo to Pagat 34.5 kV Line Upgrade</td>
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<td>Radio Barrigada to Pagat 34.5 kV Line Upgrade</td>
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<td>Agana to Radio Barrigada 34.5 kV Line Upgrade</td>
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<td>New Malojoj – Agana 115-kV Transmission Line</td>
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<td>New Dandan Substation Improvements with 100 MVA 115/34.5 kV Transformer</td>
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<td>Dededo CT Remote Control System/Auto-Start</td>
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<td>Liguan Terrace Hybrid Conversion - Phase I</td>
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<td>59</td>
<td>Liguan Terrace Hybrid Conversion - Phase II</td>
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**Totals** | 5,150 | 17,039 | 43,828 | 21,292 | 12,400 | 99,709

**Grand Total** | 29,310 | 47,411 | 45,697 | 51,103 | 21,492 | 219,738
QUESTIONS/CONTACTS

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