

GPA AFFORDABILITY TRANSFORMATION SOLUTIONS



Guam Transportation Electrification - Electric vehicles charging from the grid will increase GPA revenues allowing GPA to reduce rates for everyone. Reduces GPA fleet expenses for fuel and maintenance.



Energy Efficiency - Energy efficiency has a much higher rate of return than just simply installing solar PV. Putting energy efficiency first lowers energy costs for everyone.



Improving Generator Reliability - Improving GPA generator availability results in serving more load using less generation. It also significantly lowers energy costs.



Flexible Efficient Generation - Better follows the changes in demand especially when large intermittent sources of power are on the grid. Reduces LEAC rates especially when using natural gas.



Daytime Charging Electric Vehicles (EV) - Slows growth of system peak deferring expensive investments for new capacity resulting in lower future energy costs.



Smart Grid (SG) - Smart Grid systems such as Mobile Workforce Management, Advanced Grid Analytics, Distribution Automation increase work productivity reducing energy costs passed onto customers.



Energy Shifting Battery Energy Storage Systems (ES BESS) - Decreases Excess Solar PV Production Events by storing 100% of energy for nighttime use; Replaces expensive production from peaking generation. Lowers and stabilizes LEAC rates.



GPWA Information/Operations Technology (IT/OT) Consolidation - Reduces IT/OT capital and operating costs for GPA and GWA. Reduces costs passed onto customers.



Conservation Voltage Reduction (CVR) - Reduces distribution system line losses lowering LEAC rates. Reduces customer energy consumption.



LNG Infrastructure and Supply - Greatly reduces fuel costs. Significantly lower greenhouse gas emissions. Enables Guam to bunker large gas-fueled ships. Enables Guam to be a regional natural gas hub. Increases GPA revenue streams that can be used to reduce base rates.



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