

FPUA
COMMUNITY PROUD

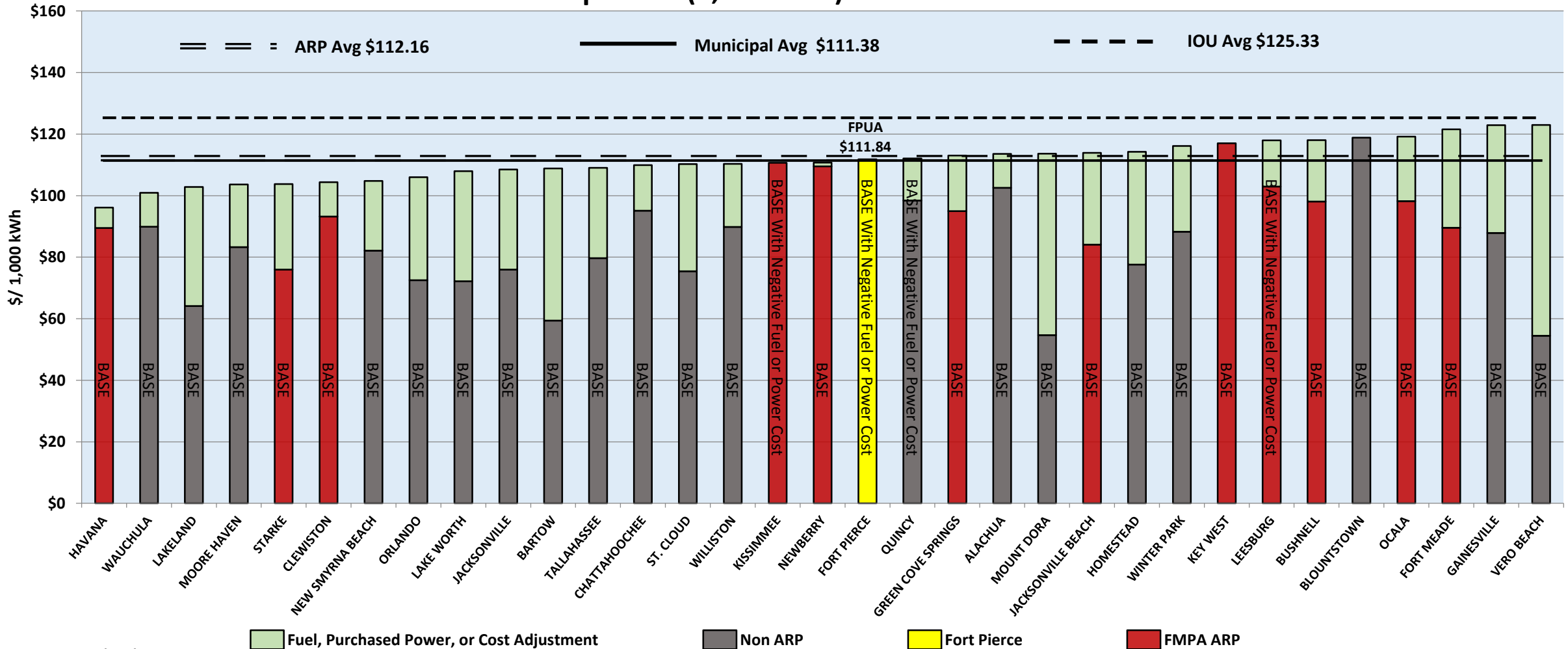
**Presentation to the Fort Pierce
City Commission
December 17, 2018**

Discussion Items

- Strategic Planning Update
- Water/Wastewater Issues and Regionalization
- Miscellaneous Items
 - CNG Filling Station
 - Solar Project
 - AMI
 - Port Developments

Key Result Area (KRA)-Electric Rates

Residential Electric Bill Comparison (1,000 kWh) - October 2018



KRA-Rates-Analysis

FMPA Control (68%)

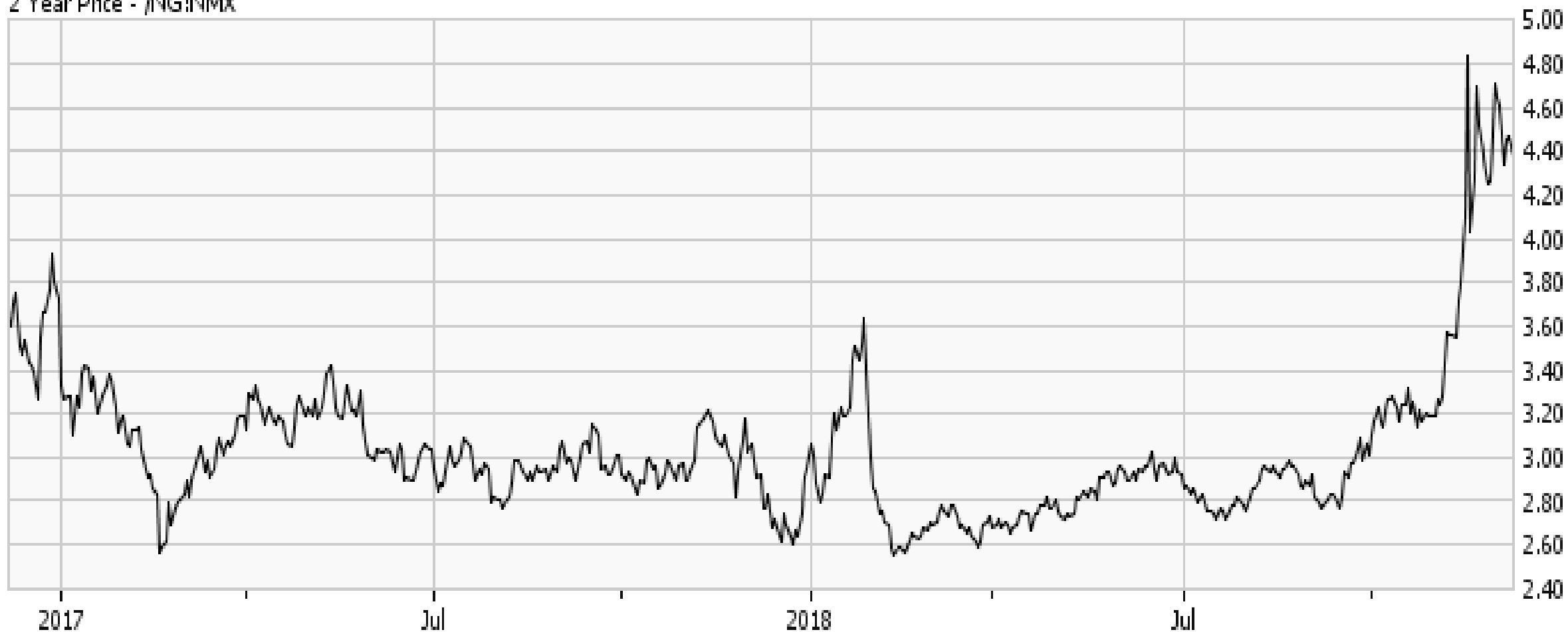
- Rates fixed by FMPA Board on yearly basis
 - Board Representation
- Fuel Pricing

FPUA Control (32%)

- Load Factor Improvement
- Reduce System Losses
- Effective Budgeting
- Reduce FPUA Energy Costs
 - Energy Efficiency
 - Off Hour Production

KRA-Rates-Natural Gas Impact

2 Year Price - /NG:NMX



December 6, 2018

© quotemedia.com



Key Result Area Rates-Comparison

Treasure Coast Utility Bill Comparison								
October 2018								
Total Utility Bill *								
Utility	Consumption		Fort Pierce	Fort Pierce**	Port St. Lucie**	St. Lucie County***	City of Vero Beach	Martin County***
Electric	1,000	kWh	\$119.55	\$106.87	\$113.35	\$103.34	\$133.48	\$104.58
Water	6,000	gallons	\$39.89	\$39.89	\$37.49	\$46.26	\$31.77	\$30.63
Wastewater	6,000	gallons	\$49.66	\$49.66	\$62.49	\$66.15	\$38.20	\$44.23
Totals			\$209.10	\$196.41	\$213.33	\$215.75	\$203.45	\$179.44

* Total utility bill amounts include all taxes, fees and charges and have been verified to actual utility bills for homes with average electric, water and sewer usage.

** Electric service is provided by FPL.

*** Electric service in this comparison for St. Lucie County and Martin County is provided by FPL.

SLC Utilities and Martin County Utility customers pay no utility tax or fees.

KRA-Reliability

- Electric Reliability is very good-above industry benchmarks
 - Installing “trip savers” to cut down on outages-Procurement issues in obtaining devices
 - Continuing aggressive tree trimming program
 - Increased animal deterrent measures
 - Replacement of aging infrastructure
- Water/Wastewater projects
 - WRF emergency backup power-project proceeding-may be slightly delayed due to late equipment delivery
 - Wastewater piping lining-on-going program-Averaging ~ 2 miles per year. 25 miles (of 110 miles) have been lined
 - Aggressive capital improvement program has increased the reliability of the water plant and Repump stations



KRA-Building the Utility, Building the City

- WRF Relocation-Orange Avenue 16” Force Main-Engineering Complete-5 month construction-will start in March, 2019
- Customer Expansion Project (SE of Edwards and 25th)-Surveys complete, plans 95% complete, Construction will start in March or April after completion of Iroquois MSBU
- Natalie's (DiGiorgio Road)-In initial design-awaiting final easements, working on supply agreement

KRA-Employee Development and Satisfaction

- Professional Development Program-In progress
- Succession Planning-On-going
- Incentive Pay Program-Program formalized and being implemented
- All critical positions are staffed
- FPUA named one of the “Best Places to Work” in St. Lucie County





KRA-FPUA Image-Weatherization Education Outreach Program (WEOP)

- Program initiated in 2013-Funded by FPUA and the City
- Funding has steadily increased from original \$75K/yr to current level of \$145K-future plans are to continue to increase funding
- Working with Centro Campisano Farmworker Center and SELF for work beyond our scope
- Extremely successful “grass roots” program that is lowering the cost of utilities to the people who need the help most



FPUA Image-WEOP-Program Funding

• 2013	9 Homes	FPUA Budgeted	\$55,000	Dispersed	\$14,033
		City Ft. Pierce	\$13,331	Dispersed	\$13,331
• 2014	17 Homes	FPUA Budgeted	\$55,000	Dispersed	\$49,552.34
		City Ft. Pierce	\$		
• 2015	9 Homes	FPUA Budgeted	\$55,000	Dispersed	\$35,771
		City Ft. Pierce	\$20,000	Dispersed	\$20,000
• 2016	25 Homes	FPUA Budgeted	\$55,000	Dispersed	\$52,810
		City Ft. Pierce	\$20,000	Dispersed	\$20,000
• 2017	23 Homes	FPUA	\$100,000	Dispersed	\$91,718.45
		City Ft. Pierce	\$20,000	Dispersed	\$20,000

83 Homes
12/10/2018

Total Dispersed \$305,215.79

FPUA Image-WEOP Services

- Funding Per Home \$5,000
- Services provided:
 - New water heater electric or gas \$1,900
 - Electric/plumbing code violation(s)
 - Exterior Doors: \$1,031
 - Door \$297
 - Plus Knob \$25
 - Labor \$600
 - Permit \$110
 - Window Panes Replacement
 - Sealing Window/Doors & Removal of security and screened doors
 - Insulation Upgrades \$600
 - No insulation for flat roofs

- HVAC Tune Up
- Programmable Thermostat
- Electrical Work
 - Code Violations, exterior LED lighting
- Plumbing Repairs
- LED Bulbs 8
- Low Flow Shower Heads
- Faucet Aerators

KRA-FPUA Image

Goal is to improve our image to the community

- Increase outreach to the community through Facebook and other social media
- On-line commercials, radio and print public relations
- Increased informational presentations at Board meetings for topics of interest to the public
- Participate and sponsor Sunrise Spotlight
- New logo
- Preparing for a facelift at Admin building which will blend in with PAD vision

FPUA Image-Community Contributions

- **Civic Stewards**

- Manatee Center
- WEOP Program
- **Community Sponsorships**
 - United Way Corporate Partner
 - Boys & Girls Club
 - Mustard Seed
 - Restoring The Village
 - Great American Cleanup - Keep Fort Pierce Beautiful
- **Civic Organizations**
 - Kiwanis & Rotary
 - Florida Engineering Society – Treasure Coast
 - American Water Works Association – Region 8
 - Florida Water Environment Association – Treasure Coast

- ***Employee Sponsored***

- **Stuff The Bus**
 - Since 2009, average of 80 backpacks stuffed with pencils, paper, glue, etc.
- **Christmas Angels**
 - Since the 1990's, average of 20 angels each year
- **Food Drives**
 - Since 2001, over 39,000 lbs. donated
- **Volunteerism**
 - FPUA staff volunteered over 2,000 hours of personal time to more than 120 organizations

KRA Customer Service-Business Development

- As part of Strategic Plan added a Business Development Officer position to our staff
- Developing business portfolio for all potential customers so they understand all upfront costs
- Working closely with the EDC to identify new opportunities and aggressively pursue them
- Have developed economic incentive rates and other business friendly incentives for potential new business

Water/Wastewater Issues

- 2 separate but related issues being discussed-Bulk Agreement and Regionalization
- Bulk Agreement developed in 2004, designed to identify service areas between FPUA and the County and establish additional parameters for operation.
- Issues associated with Bulk agreement include
 - Rates-Water and Wastewater
 - Capital Improvement Charges
 - Annexation Issues
 - Technical Issues
 - Flushing Credits
 - Mainland Water Reclamation Facility

Water/Wastewater Issues-Status

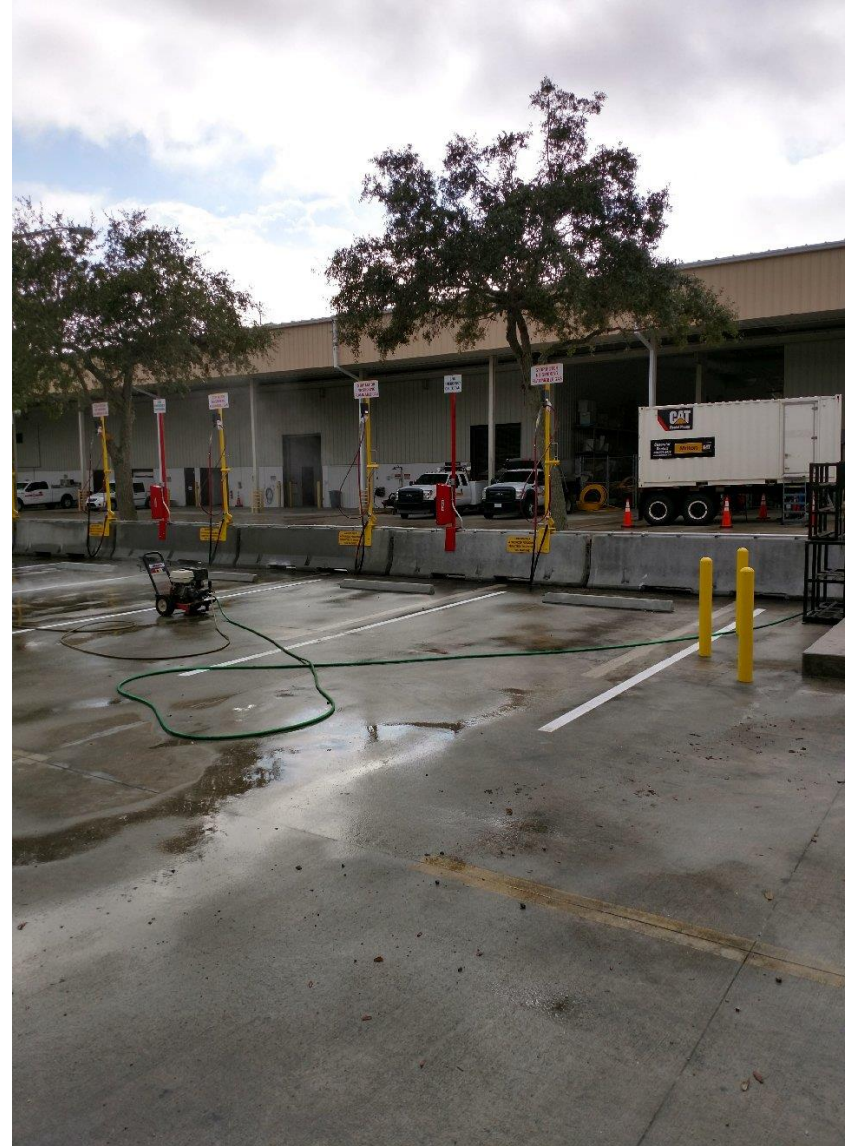
- Rates-Water and Wastewater-Agreement in principle pending rate consultant report on evaluation of rate structure.
- Capital Improvement Charges-Agreement in principle that current program does not work-Discussion on how to develop CICs in the future is on-going
- Annexation Issues-No discussion on this item-City decision
- Flushing Credits-Agreement in principle-working on implementation plan
- Mainland Water Reclamation Facility-Far apart on this issue-Evaluating possibility of independent consultant review.
- Technical issues-Minor disagreements which will be worked out

CNG Filling Station



← Compressor
Station

Fuel →
Dispensers



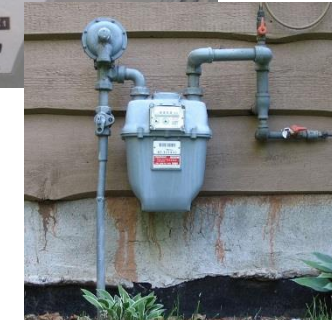
What is Advanced Metering Infrastructure (AMI) ?

US Department of Energy

“Smart Grid generally refers to a class of technology that people are using to bring utility delivery systems into the 21st century, using computer-based remote control and automation. These systems are made possible by two-way communication technology and computer processing that has been used for decades in other industries.”

“Much in the way that a “smart” phone these days means a phone with a computer in it, smart grid means “computerizing” the utility grid.”

So What is AMI?



- Completely Automated Process
- Two way communication on a Daily Basis to Field Cash Registers
- Requires all Electronic Meters
- Improved Efficiency
- Real time field information

AMI-Benefits to FPUA

- Improved Outage Detection
 - Customer information flow
 - Ability to provide real time information to County EOC
- Real time engineering analysis
 - Controlling our losses
- Leak Detection
 - Inform before they receive their bills
- Proactive Maintenance
- Remote Reconnect/Disconnect
 - Same day turn On/Off
- Tamper Protection
 - Increased detection and fees associated with it
- Customer service inspection program
 - Help reduce potential electrical and fire hazards
 - Work with local electricians on repairs

AMI-Benefits to Customers

- Proactive Customer Service
 - Customer Service Technicians
- Variety of New Payment Options
 - Pay as you Go
 - TOU
 - Flexible Billing Schedules
 - Eliminate Large Deposits
- Customer Information Portal
- Customer control of Energy Usage
 - Control their Bill
 - Trending analysis

AMI-Implementation

- System Wide
 - Integration with existing CIS, GIS, and OMS Systems
- Electric
 - Replacement of Entire Meter
- Water
 - Exchange of meter register
 - Retrofit existing meter
 - Order with standard meter replacements
- Gas
 - Exchange of meter register
 - Retrofit existing meter
 - Order with standard meter replacements

AMI-Progress to Date

- Request for Proposal (completed)
- Vendor Selection (completed)
 - 7 vendor proposals considered
 - 3 vendors were chosen for final presentations
 - Landis & Gyr
 - Core & Main/Sensus
 - Honeywell/Elster
- Honeywell Chosen as AMI Provider

AMI-Next Steps

- Identify Pilot Area
 - Approx. 1000 electric, 20 water and 20 gas meters
- Negotiate Terms of Contract
- Solidify Costs
- Determine an implementation schedule
 - Proposed in the budget (20% Year over 5 Years)
 - Begin Infrastructure in FY19
 - Electric FY19 - FY23
 - Gas FY20 - FY24
 - Water FY20 - FY24

AMI-Project Cost

- Total Project Cost \$10 - \$12 Million
 - Infrastructure - \$7 Million
 - Includes New Electric Meters
 - Includes New ERT Modules for Water and Gas
 - Meter Replacement - \$3 Million
 - Internal \$2 Million
 - External \$1 Million

Solar Project

- Florida Municipal Solar Project is a joint project of 12 Florida municipal utilities working together
- 223.5 megawatt project consists of 3-74.5 megawatt sites which is the equivalent to 37,250 rooftop solar systems
- The Builder/Owner/Operator is NextEra Florida Renewables
- ~900,000 solar panels will be installed on 1200 acres-will be enough to power 45,000 homes
- The solar farms will be in Orange and Osceola Counties
- Expected to be on line in 2020.

Solar Project

- FPUA participating in the project through the All-Requirements Project
- Cost of electricity from the solar farms is fixed for 20 years- slightly higher than current rates
- Evaluating “subscription” rates for interested customers
- Solar farms much more efficient and economical than rooftop installations.

Port Projects

- Working with two groups
 - L Lee/S Woods group
 - Derecktor-Group chosen by the County
- L Lee/S Woods Group-Have met with them several times-working through details of providing power and water to the site
- Derecktor-Had initial meeting with Mark Donahue-Waiting on them to sign a lease before proceeding