

BEFORE THE PUBLIC SERVICE COMMISSION

In re: Recommendation on Commission action regarding adoption of PURPA Standard 14, "Time-based Metering and Communications." DOCKET NO. 070022-EU
ORDER NO. PSC-07-0212-PAA-EU
ISSUED: March 7, 2007

The following Commissioners participated in the disposition of this matter:

LISA POLAK EDGAR, Chairman
MATTHEW M. CARTER II
KATRINA J. McMURRIAN

NOTICE OF PROPOSED AGENCY ACTION
ORDER DECLINING TO ADOPT PURPA STANDARD 14,
TIME-BASED METERING AND COMMUNICATIONS

BY THE COMMISSION:

NOTICE is hereby given by the Florida Public Service Commission that the action discussed herein is preliminary in nature and will become final unless a person whose interests are substantially affected files a petition for a formal proceeding, pursuant to Rule 25-22.029, Florida Administrative Code.

Background

When it enacted the Energy Policy Act of 2005 (EPAAct), Congress amended the Public Utilities Regulatory Policies Act of 1978 (PURPA) to add five new standards. Each state is required to evaluate these standards to determine whether they should be applied to the electric utilities regulated by the state regulatory commissions. At issue here is whether we should adopt the new PURPA Standard 14, Time-based Metering and Communications. We have jurisdiction pursuant to Chapter 366, Florida Statutes.

Pursuant to Section 1252 of the EPAAct, which added PURPA Standard 14, we are required to investigate and decide whether to require electric utilities to provide and install time-based meters and communication devices. We initiated our investigation at our March 7, 2006 Internal Affairs meeting when we approved our staff's proposal to survey Florida electric utilities to determine the current status of time-sensitive rates in Florida.

We believe Section 1252 was intended to break down regulatory or institutional barriers to the provision of time sensitive rates. Based on our survey results, we find that Florida utilities, even those not subject to PURPA, have considered and implemented time sensitive rates and load management programs that comply with the spirit of Section 1252. For the reasons discussed below, we find that Florida is already in substantial compliance with PURPA Standard

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14 under existing rules and regulations and no further action is necessary to meet the intent of the standard. Further, adoption of the broad standard as written could result in service requirements that are not cost effective for the general body of ratepayers.

Provisions of Section 1252 of EPAct

Under the pertinent parts of the new standard:

each electric utility shall offer each of its customer classes, and provide individual customers upon customer request, a time-based rate schedule under which the rate charged by the electric utility varies during different time periods and reflects the variance, if any, in the utility's costs of generating and purchasing electricity at the wholesale level. The time-based rate schedule shall enable the electric consumer to manage energy use and cost through advanced metering and communications technology.

While the EPAct does not require us to adopt the new PURPA standards, we are required to consider whether adopting any of the new standards is appropriate. Under existing PURPA section 115(b), our analysis should include the cost to implement the standard compared to the benefits realized. EPAct section 1252(b) also added PURPA section 115(i), which provides that each state regulatory “shall conduct an investigation and issue a decision whether or not it is appropriate for electric utilities to provide and install time-based meters and communications devices for each of their customers which enable such customers to participate in time-based pricing rate schedules and other demand response programs.” The nature of that investigation is not specified.

The time frames to be used for our investigation are somewhat contradictory. Regardless whether we apply the more conservative 18 month time frame in section 1252(a) or the two-year completion date found in section 1252(g), we find that we have completed our survey and reached our conclusion within both timeframes mentioned in the EPAct.

History

Under the 1978 PURPA, each state regulatory authority was required to consider a list of standards aimed at energy conservation, efficient use of facilities and resources by utilities, and equitable rates. These standards included six ratemaking standards: (1) time-of-day rates; (2) seasonal rates; (3) interruptible rates; (4) load management techniques; (5) prohibition of declining block rates; and (6) cost-of-service rates. With respect to each electric utility over which it had ratemaking authority, each state commission was required to give public notice and conduct a hearing to consider and determine whether or not it was appropriate to implement each of the standards. Each state regulatory authority was free to make a determination that implementation of any particular standard was inappropriate, provided that it met the requirements of public notice and hearing and, based on the evidence presented at hearing, issued a written decision providing its rationale.

In 1981, we conducted proceedings to consider each PURPA ratemaking standard and determine whether each was appropriate for implementation in Florida. The time of use standard in the 1978 PURPA states:

The rates charged by any electric utility for providing electric service to each class of electric consumers shall be on a time-of-day basis which reflects the costs of providing electric service to such class of electric consumers at different times of the day unless such rates are not cost-effective with respect to such class . . .

In addition, PURPA provided that a time-of-day rate charged to a class of consumers would be considered cost-effective with respect to each such class when long term benefits to electric utilities and consumers exceed the costs associated with meeting the rate.

The Commission determined that a modified version of the PURPA standard was appropriate.¹ The Commission-approved standard is:

When such rates are cost-effective, the rates charged by an electric utility for each group of customers shall be time-differentiated in order to reflect the cost of providing service to such customers at different times of the day. "Cost-effective" means that the long run benefits to the utility and its customers exceed the cost of meters and other associated costs. Specific cost effectiveness methodologies may be prescribed by the Commission.

Id. at 9.

FERC study

Pursuant to Section 1252(e)(3), the Federal Energy Regulatory Commission (FERC) prepared an assessment of demand response resources, including those available from all consumer classes. This comprehensive survey looked at both demand response and advanced metering. The survey was sent to 3,365 organizations in all 50 states representing IOUs, municipals, rural cooperatives, power marketers, state and federal regulatory agencies, and unregulated demand response providers. Approximately 55% of those receiving surveys responded. The FERC study shows only a six percent penetration rate nationwide for smart meters. The FERC study definition of smart metering, however, was quite narrow: "a metering system that records customer consumption [and possibly other parameters] hourly or more frequently and that provides for daily or more frequent transmittal of measurements over a communication network to a central collection point." The study goes on to elaborate that, for the purposes of the survey, advanced metering includes more than just a "smart meter" and must include the communications networks and data management, to qualify under the FERC's definition. Further, the FERC study required not only the capability to measure but that the

¹ Order No. 10179, issued August 31, 1981, in Docket Nos. 780793-EU, 790571-EU, 790593-EU, 790594-EU, and 790859-EU, In re: Consideration of PURPA Standards in the Following dockets: Peak Load Pricing Declining Block Rates Cost of Service Load Management Decision Making.

meters actually be used to measure data intervals of an hour or less and collect data at least daily. Based on these definitions, the study shows a smart meter penetration rate for Florida of 2.5 %.

The EAct language is much broader than the FERC survey. PURPA Standard 14 requires a utility to offer each of its customers “a time-based rate schedule under which the rate charged by the electric utility varies during different time periods and reflects the variance, if any, in the utility’s costs of generating and purchasing electricity at the wholesale level. The time-based rate schedule shall enable the electric consumer to manage energy use and cost through advanced metering and communications technology.”² The data presented below shows that Florida customers enjoy a wide variety of time-responsive rate options. While the extensive data networks necessary to meet the FERC criteria used in its study may not be in place, Florida utilities have demonstrated a commitment to customer pricing options for over twenty-five years consistent with both the new and existing PURPA standards. For these reasons, we find that formal adoption of PURPA standard (14) is not necessary.

Utility Rates and Programs

PURPA Section 101 states that utilities are subject to PURPA requirements if the utility exceeds 500 million kWhs during any calendar year beginning after December 31, 1975. Based on the information provided in the 2005 Statistics of the Florida Electric Utilities Industry, in addition to the five investor-owned electric utilities, thirteen municipal utilities and seven rural cooperatives meet that criterion.³ Responses to our staff’s data request to all Florida electric utilities to collect information on smart metering and load management programs are summarized below, and the responses of Florida’s investor-owned electric utilities are appended as Attachment A to this Order.

Section 1252(a) of the EAct lists four specific categories of time-based rate schedules that meet the criteria set forth in the standard:

- (i) time-of-use pricing whereby electricity prices are set for a specific time period on an advance or forward basis, typically not changing more often than twice a year, based on the utility’s cost of generating and/or purchasing such electricity at the wholesale level for the benefit of the consumer. Prices paid for energy consumed during these periods shall be pre-established and known to consumers in advance of such consumption, allowing them to vary their demand and usage in

² Id., Section 1252(a)(14)(C)

³ **IOU’s:** Florida Power & Light, Company, Progress Energy Florida, Inc., Gulf Power Company, Tampa Electric Company, Florida Public Utilities Company.

Municipals: Beaches Energy Services, Ft. Pierce Utilities Authority, Gainesville Regional Utilities JEA, Keys Energy Services, Kissimmee Utility Authority, City of Lakeland, City of Leesburg, Ocala Electric Utility, Orlando Utilities Commission, Reedy Creek Improvement District – Utilities Division, City of Tallahassee, City of Vero Beach.

Rural Cooperatives: Clay Electric Cooperative, Inc., Florida Keys Electric Cooperative Association, Inc., Lee County Electric Cooperative, Inc., Peace River Electric Cooperative, Inc., Sumter Electric Cooperative, Inc., Talquin Electric Cooperative, Inc., Withlacoochee River Electric Cooperative, Inc.

response to such prices and manage their energy costs by shifting usage to a lower cost period or reducing their consumption overall;

(ii) Critical peak pricing whereby time-of-use prices are in effect except for certain peak days, when prices may reflect the costs of generating and/or purchasing electricity at the wholesale level, and when consumers may receive additional discounts for reducing peak period energy consumption;

(iii) Real-time pricing whereby electricity prices are set for a specific time period on an advanced or forward basis, reflecting the utility's cost of generating and/or purchasing electricity at the wholesale level, and may change as often as hourly; and

(iv) Credits for consumers with large loads who enter into pre-established peak load reduction agreements that reduce a utility's planned capacity obligations.

Florida electric utilities offer, or have offered in the past, most of these types of rate options. As would be expected, the four major investor-owned utilities have the broadest array of time and demand responsive programs. Because IOUs generate the bulk of the electricity delivered to their customers, changes in demand can be realized almost immediately, making such options more likely to be cost effective. Smaller utilities who purchase all or most of their power may have fewer opportunities to realize benefits from time-of-use or load management programs. Many wholesale purchased power contracts bill on the city or cooperative's demand at the time of the peak demand of the supplier, which may not necessarily be the peak demand of the purchaser. If the reduction from a utility's time responsive rate does not occur during the wholesale billing peak, the purchaser may realize only a revenue loss from lower off peak rates and no commensurate cost savings in power purchases, making such a rate non-cost effective.

Investor-owned rate options

All IOUs offer time differentiated rates to their customers. These rates typically consist of a two part (on-peak and off-peak) energy charge and may also include a two part demand charge for commercial customers. Seasonal on- and off-peak periods are pre-set and approved by the Commission. Standard time-of-use rate design is based on data from the load research studies required under Rule 25-6.0437, Florida Administrative Code, "Cost of Service Load Research." Under this rule, IOUs must place time recording meters on a statistically valid sample of their customers in each customer class to measure usage on a time sensitive basis for 12 months. This load data is submitted every three years to the Commission in support of a number of recovery clauses as well as to determine the on- and off-peak load for designing time-of-use rates in a rate case.

Residential. Three of the five IOUs, Florida Power & Light Company (FPL), Progress Energy Florida, Inc. (PEF) and Tampa Electric Company (TECO), offer residential customers a standard time-of-use option. Participation in residential time-of-use rates is typically quite small, averaging less than 1% across all IOUs. This is most likely because the broad on-peak periods

are difficult to avoid for most households. The Summer peak period (April through October) begins at noon and runs until 9 p.m. The Winter peak period (November through March) has two peak periods, from six to 9 a.m. and from 6-10 p.m. Peak pricing does not apply to weekends or certain holidays. Peak periods are based on the utility's cost of service. While shortening the peak periods may encourage higher participation rates, it could also cause customers to shift usage just outside the peak periods creating shoulder peaks which may not reduce the utility's overall costs of generation.

Gulf Power Company (Gulf) has closed its standard residential time-of-use tariff in favor of a four part variable pricing structure. The rate schedules establish four pricing tiers based on the company's cost to produce power. The prices change as the load on the system changes. A smart thermostat in the customer's home indicates the current pricing block and a customer has the choice to continue using electricity at the same level or to reduce usage, based on willingness to pay the applicable rate. Gulf reports 3.4% of eligible residential customers participate in its residential variable pricing options. TECO currently has a similar program in a pilot stage which is not yet available to all customers. Florida Public Utilities Company does not offer a residential time of use rate. Its small customer base plus the fact that it purchases all of its power makes it look more like a small municipal utility for whom such rates are generally not cost effective.

Another pricing option we approved for residential customers for implementation on a small scale was pre-paid meters. While not strictly a time-of-use application, it did involve more sophisticated metering and provided an option for customers to monitor and control their usage through metering technology. FPL offered this option to select customers in a limited geographical area to assist those who experienced continued difficulty in paying monthly bills. These pre-pay meters allowed customers to "purchase" electricity by having credits loaded onto a credit card type device which was inserted into the meter or control box at the residence. A read-out device in the home showed how much usage was left on the current card and the rate at which electricity was being consumed.

The customer could monitor his usage rate on a daily or even hourly basis and turn off appliances to reduce usage. When the credits ran out, the customer was able to immediately go to a local payment location to buy more. This allowed the customer to "buy" electricity as it was used, rather than face a large end-of-the-month bill and to see how energy was being used on a real time basis. About the same time frame, PEF also implemented a limited pilot with PEF employees to test the pre-pay metering equipment. Although the program was popular and showed promise for wider application, FPL experienced difficulties with their equipment supplier and was forced to terminate the program. PEF was likewise unable to find another equipment supplier and ultimately did not roll out the program to its general body of ratepayers.

Commercial and Industrial. Standard time-of-use rates are also offered to IOU commercial and industrial customers. Penetration rates vary significantly. Rates applicable to smaller commercial customers typically show low take rates, while larger commercial and industrial customers who may have more flexibility in structuring their load show penetration rates up to 75%. In addition to standard time-of-use rates, for larger customers Gulf currently

offers a Real Time Pricing (RTP) rate option that provides hourly price signals a day ahead to allow customers to manage their load in a cost effective manner. Gulf's RTP rate is derived primarily from its marginal operating costs with some adjustment for embedded costs. Although RTP was designed to encourage load shifting, any customer may find Gulf's RTP rate advantageous, even though usage may not change. Gulf reports that 43.2% of the eligible customers take service on its RTP rate.

Although neither currently offers a RTP option, both PEF and FPL also previously requested and received approval for a Real Time Pricing tariff rate. FPL received approval in 1995 for a proposal which set a customer-specific baseline. In order to realize savings, a customer needed to change his usage patterns. Despite numerous modifications to the qualification criteria and rate calculations, participation in FPL's program steadily declined. Most of the customers taking service on the rate were not able to shift usage and did not realize any savings. In 2002, the rate was closed to new customers and in 2003 the rate was allowed to expire and the remaining customers moved to other rate schedules. FPL currently offers a high load factor time-sensitive rate and a seasonal demand rate to recognize the difference in usage patterns and cost causation of some commercial and industrial customers. The high load factor option shows a penetration rate of 1.8% and the seasonal demand offering take rate is less than 1%.

To further encourage customers to adopt load management measures, FPL developed new programs to allow rate reductions for customers willing to install and use on-site generation when FPL experienced high load periods. Another program was also developed to protect customers who installed demand side management measures from being billed under a higher rate simply because of the installation of the load management measures reduced their billing kW.

PEF received approval for a limited four-year RTP pilot in 1996, but petitioned to close the rate in January 1999, when no customers expressed interested in taking service under the rate.

Other options for large commercial customers are Curtailable and Interruptible rate options. These may be standard or time-of-use options. Both allow the customer to contract for a set amount of firm power and a specified amount of interruptible load. In times of high system demand, the utility may request or require these customers to reduce their load. Under Curtailable rates, customers are asked to curtail specified load during system shortages and face significant penalties if they do not do so. Most Interruptible load is served through under-frequency relays in which the utility controls the interruption.

In return for their willingness to be interrupted in times of system need, Curtailable and Interruptible customers receive a significant credit or discount from the otherwise applicable firm rate. Customers make an economic choice to pay a lower rate in exchange for the possibility of interruption. The per kW credit is based on avoided generation and is not related to the number or frequency of interruptions experienced. Interruptions may occur only when the capacity is

needed to serve firm customers. Neither Curtailable nor Interruptible load may be interrupted for economic reasons.

Interruptible and Curtailable tariffs set a minimum total load and minimum load that must be available for interruption or curtailment to ensure that the rate will be cost effective. Typically, only very large commercial or industrial customers are eligible to participate. For FPL's Curtailable rate options, it reports participation rates ranging from less than 1% to 4.3% of eligible customers. PEF reports a participation rate for its Curtailable service of 55% of eligible customers. PEF and TECO offer utility-controlled Interruptible service. PEF reports 100% of eligible customers take service under its interruptible rates. Participation in TECO's interruptible programs ranges from 69% to 85%; however, TECO's Interruptible rate schedules are both closed to new participants. TECO now offers an Industrial Load Management Rider which operates in much the same manner but instead of a fixed rate reflecting the average cost savings associated with avoided cost, customers receive a payment based on a formula which is customer specific. Gulf does not offer interruptible or curtailable rate options

Other tools. Utilities are also required to offer energy audits to assist customers in identifying load management programs that may be cost effective. Conservation programs for residential customers include rebates for efficient equipment, weatherization and duct testing and repair. Direct load control options allow residential customers to sign up for rebates in return for allowing certain appliances to be interrupted. Residential load management can be applied only on heating/air conditioning units, pool pumps and hot water heaters. For subscribed customers, the utility sends a radio signal to each appliance which activates a shut down switch. The duration of load management operation is limited as specified in the tariff. Like all load management credits, the level of the credit takes into the account the load being interrupted and the utility's avoided cost of power production.

Commercial customers also have a variety of programs to assist them in managing their energy costs such as building envelope analysis, efficient lighting change-out programs, rebates for more efficient equipment. Various types of commercial load management is also available. Load management has advantages over more global programs such as Curtailable and Interruptible loads because a specific appliance or machine can be targeted. Under Interruptible load, especially, all loads behind a given meter will be interrupted. A separate meter is required for any load the customer wants to protect.

Rate options summary. The above discussion presents a general overview of the types of programs available to Florida investor-owned utility consumers to assist them in managing the cost of electricity. All load management and time of use rates are currently optional and participation varies from relatively low for standard residential time of use rates to very high for commercial and industrial time of use and load management options. In all cases, the utilities supply the metering equipment necessary to take service on the rate options. Any customer who meets the eligibility criteria may take service on a time sensitive rate, subject to the cost effectiveness constraints outlined in Rule 25-6.0438, Florida Administrative Code. This information demonstrates that Florida utilities are actively pursuing, and we are consistently approving, new and innovative approaches to allowing customers more options to control their

electric usage through time sensitive metering and load management programs. Attachment A contains a more detailed discussion of these rates provided by each of the major IOU's in response to our staff's survey. We also encourage utilities to explore new customer energy management options by allowing the cost of research and development for such programs to be recovered through the Energy Conservation Cost Recovery clause.

Meter upgrades. In addition to the rate and load management incentives, two IOUs, PEF and TECO, have recently completed installation on new remote read meters for residential customers. While the primary purpose of these meters today is to streamline meter reading and improve accuracy of meter readings, PEF reports that its meters are capable of more extensive information gathering. However, the meters are not currently programmed or equipped for such advance activities. FPL is currently evaluating various advanced metering options which would allow hourly or daily readings. In 2004, FPL installed a pilot program consisting of 50,000 advanced meters to determine their feasibility and capability. The pilot included meters which automatically send data electronically to a central data base as well as the radio frequency technology installed by PEF and TECO. Data can then be analyzed on multiple levels to determine usage patterns and cost impacts on varying time intervals. FPL's experience with these meters has been positive and it plans to continue roll-out of the technology through 2012.

PEF also notes that it participated in a two year program with the University of Florida to test whether customers would be willing to reduce demand in exchange for payment at a market price. Payments of up to \$2.00 per kWh were offered to nine commercial and industrial customers. Unfortunately, the pilot drew little interest and indicated that customers were not interested in reducing load at typical market prices of \$0.20 to \$0.40 per kWh. The program did, however, identify key areas for study in future projects. For example, more efficient automated response capabilities would allow customers to respond faster. To measure effectiveness of the program, customer baselines would have to be identified with a goal of reducing demand by at least 15% of that baseline to achieve meaningful results. Also, the level of incentives needs to be re-examined as well as better identification of appropriate customers who have the ability to reduce their load in response to incentives.

Municipals and Rural Cooperatives

In 1973, the Commission on its own motion opened Docket No. 73694-EU to investigate the rate structures of the (then) six investor-owned electric utilities to determine if existing rate structures encouraged wasteful use of energy. Before the Commission could conclude that investigation, the Florida Legislature brought certain aspects of municipal and rural cooperative regulation under our jurisdiction in 1977, and PURPA was adopted in 1978. With oil prices continuing to rise, we opened Docket No. 790859-EU to consolidate all of these elements into a single forum. By Order No. 10179, we recognized that PURPA enforcement applied only to utilities over which we had ratemaking authority,⁴ and Section 366.04(2), Florida Statutes,

⁴ Section 111 (a) differentiates between utilities for which the regulatory body has ratemaking authority and those for which it does not. It further charges each "nonregulated" utility to conduct a review on its own, similar to that required for PSC rate regulated utilities . . .

limited our jurisdiction over municipal and rural cooperatives to rate structure. A compromise to which all parties agreed was struck:

Under Section 366.04(2)(b), Florida Statutes, this Commission has jurisdiction over all electric utilities, including the municipals and rural electric cooperatives (REA), to prescribe a rate structure. In the exercise of its authority with regard to PURPA standards, the Commission will confine itself to its statutory authority to prescribe a rate structure. Thus, our order regarding the adoption or rejection of the six standards will include municipals and REA's to the extent such standards relate to rate structure.⁵

Since we do not have ratemaking authority over municipal and rural cooperative electric utilities in Florida, under PURPA, these utilities are charged with conducting their own investigation of the standards. Florida rural cooperatives report that they are working with their national association to review the standards. Florida municipals are similarly coordinating amongst themselves concerning the review requirements of PURPA Standard 14. Discussions of these utilities' efforts in this area are included here simply to present a statewide perspective. Eight of the 16 retail rural cooperatives responded, as did 27 of the 34 municipal utilities. A summary of the responses to staff's data request are presented below to reinforce the concept that Florida as a whole endorses time-sensitive rates where such rates are cost effective.

As noted above, a major reason for the lack of time sensitive offerings by municipal and rural cooperative utilities is that many of the small utilities do not generate their own power but purchase all their energy needs from other entities. For example, the Florida Municipal Power Agency is a consortium of municipalities who pool resources to build or acquire power plants to serve its members. Seminole Electric Cooperative serves a similar function for many of the rural electric cooperative utilities. A single utility is commonly billed on its system peak at the time of the provider's peak, which may or may not be the peak for the purchasing utility. Management of an individual utility's peak may not, therefore, result in any significant purchased power savings if it does not reduce the billing peak. Municipal and Rural Cooperative wholesale contracts are not subject to either FERC or our jurisdiction, so there are few means to bring pressure on wholesalers to offer such incentives. For example, Kissimmee Utility Authority (KUA) noted in its response that it had offered a load management program in the past, but since it joined an "all Requirements Project," where a joint action agency provided all its power needs, the load management program was no longer cost effective. Ft. Pierce Utilities Authority also noted that while it has seriously considered time differentiated rates, due to the structure of its wholesale rates, there is no advantage to either the utility or its customers.

Municipals. Of the respondents, nine municipal utilities reported some variations of time-sensitive rate options. Five⁶ offered such rate options to residential customers while eight⁷

⁵ Order No. 10437, issued on December 3, 1981, in Docket Nos. 780793-EU, 790571-EU, 790593-EU, 790594-EU, and 790859-EU, In re: Consideration of PURPA Standards in the following dockets: Peak Load Pricing Declining Block Rates Cost of Service Load Management Decision Making, responding to Petitions for Reconsideration and/or Clarification of Order No. 10179.

⁶ JEA, City of Lakeland, GRU, City of Ocala, and City of New Smyrna Beach.

reported time of use rate options for commercial or industrial customers. Most reported negligible participation rates; however, the City of New Smyrna Beach reports a 10% participation rate in its residential load management program. The City of Tallahassee also offers both Curtailable and Interruptible rate options.

Municipal utilities are also aware of the benefits of new metering technologies and most report having conducted some type of investigation into the costs and benefits of installing new automated meters. Of the municipal utilities subject to PURPA, some, like KUA and the City of Tallahassee, have begun pilot programs to study the new meters. KUA currently has approximately 10,500 automated meters in place, serving approximately 18% of its customers. KUA is currently evaluating the results of those initial pilot installations. The City of Tallahassee has three pilot projects underway, utilizing approximately 200 meters. While the primary purpose is water use metering, electric and gas metering is also being examined. In addition, it has installed approximately 25 "drive-by" meters which allow remote readings in locations where physically reading the meter was difficult. While not providing additional time sensitive information, like PEF and TECO, Tallahassee finds that the more accurate readings and fewer estimated bills allowed by the new meters to be beneficial. The City of Ocala also has a pilot project underway to collect time interval data to assist it in evaluating the cost effectiveness of time sensitive rates.

The City of Leesburg reports that it is currently phasing in automated meters, as is Keys Energy Services (City of Key West). Keys Energy contracted with an outside engineering firm to evaluate the costs and benefits of a wholesale change-out to automated meters. The findings showed that the savings from more detailed information and implementation of time sensitive rates did not outweigh the cost of installing the meters on a system-wide basis. However, Keys Energy continues to install automated meters as part of its normal meter replacement program. Gainesville Regional Utilities (GRU) also reported that it is scheduled to begin installation of automated meters in 2007. Several utilities reported that they are evaluating the technology.

As further evidence of the favorable climate in Florida for new technology and innovative rate design, seven of the non-PURPA jurisdictional municipal utilities report some consideration or progress in installing newer metering technology. The City of Bartow currently installs automated meters, which have the capability to record time differentiated usage, in all new subdivisions. The City of Green Cove Springs is currently installing automated meters and the City of Mt. Dora reports that it has replaced approximately 50% of its meters with newer automated technology. The City of Lake Worth, the City of New Smyrna Beach, the City of Newberry, and the City of Clewiston have all been reviewing the potential application of the new metering technology. Clewiston indicates that while no firm plans are in place, it is considering replacing existing meters over the next two to five years.

Rural Cooperatives. Data provided by the rural cooperative electric utilities show similar patterns to those of municipal utilities. Four Cooperatives reported time-of-use rates. Those who offer time-of-use rates show little or no customer participation in the options. Clay Electric

⁷ JEA, City of Lakeland, OUC, GRU, TLH, City of Ocala, KUA, and City of New Smyrna Beach.

Rural Cooperative (Clay), Lee County Rural Electric Cooperative (Lee County), and Sumter Rural Electric Cooperative (Sumter) also offer some type of interruptible service. Clay conditions the offer of interruptible service on its ability to secure a corresponding interruptible rate from its power supplier. Withlacoochee River Electric Cooperative (WREC) and Lee County also offer what they term a distributed generation service. This program places a utility-owned remote generator on a specific customer's property which may be used to reduce system load or be dispatched by the utility to facilitate load management. The utility's general body of ratepayers incurs the cost of these generators since they can reduce the overall cost of power to the systems.

With respect to advanced metering, several cooperatives have investigated the option, and some have begun installation of some version of automated technology. In 2006, Lee County completed a five-year project to replace all customer meters with automated meters. The technology employed uses the more sophisticated power line carrier option, similar to the pilot in place by FPL, rather than the more common radio carrier technology used by PEF and TECO. Lee County's system has the capability to provide hourly data, but Lee County is still studying the application of that capability. WREC reports that 85% of its customers enjoy the use of automated meters. It currently has a pilot project underway to determine how best to use the time differentiated data provided by the new meters. Peace River Rural Electric Cooperative also indicated installation of a limited number of automated meters by the end of 2006. It is still studying the results to determine further action. Florida Keys Electric Cooperative Association, Inc. also indicated a multi-year phase out of existing electro-mechanical meters for automated meters; however, the new meters do not allow for time differentiated data collection.

Most of the smaller utilities note two controlling factors in not pursuing new technology. The first is the cost. System-wide change-outs are very expensive unless done in the normal cycle of meter replacement. Small systems that may be struggling already with higher fuel costs are reluctant to saddle their ratepayers with additional, optional costs. Second, as indicated above, there is little interest for time sensitive rates, especially from residential and small commercial customers, who make up the majority of the municipal and rural cooperative customer base. Low penetration rates prevail even for IOUs who have long offered time-of-use options.

Other Commission activities

In 1980, the Florida Legislature adopted the Florida Energy Efficiency and Conservation Act (FEECA).⁸ The purpose of FEECA is to reduce growth rates of weather-sensitive peak demand, reduce and control the growth rates of electricity consumption, and reduce consumption of expensive resources used to generate electricity. The Commission is required to set conservation goals for each subject utility. Goal attainment is monitored on a continuous basis, through annual review of utilities Ten Year Site Plans and review of costs associated with conservation programs, which the utilities seek to recover through the Energy Conservation Cost

⁸ Sections 366.80-366.85 and 403.519, Florida Statutes.

Recovery Clause. Comprehensive goal setting is reviewed every five years. Utility conservation performance is also reviewed whenever a utility seeks approval for new plant construction.

At our December 18, 2006 Internal Affairs, we voted to endorse the National Action Plan for Energy Efficiency. Thus, we reiterated Florida's commitment to energy efficiency and noted the savings achieved under FEECA.

Conclusion

The avowed purpose of adding the standard on time-based metering and communications to PURPA was for the management of energy cost and use by customers with advanced metering and communication. The intent was to remove any regulatory or institutional barriers to the provision of such services to customers, where customers desire such options. This Commission, along with utilities under our ratemaking jurisdiction, have actively continued to explore and implement a wide variety of options for customers to monitor and control usage on both a time differentiated basis and through response to load control incentives, where these options are cost effective. For those utilities where such rates or programs are not now available, many of them have considered the options and determined that they are not cost effective or that their customer base does not see a need for such rates.

When we adopted the PURPA time-of-use standard by Order No. 10179 in 1981, we adopted more than just the limited options envisioned at that time. We pursued the spirit of efficiency, conservation, and customer options which underlay the original standards and continue to encourage those principles today, including smart metering and telecommunications where such technology is cost effective. Our subsequent actions provide ample proof of our continued commitment to providing customers time-based and demand response rate options. Having considered PURPA Standard 14, we find it unnecessary to formally adopt the standard. In addition, adoption of the broad standard as written could result in service requirements that are not cost effective for the general body of ratepayers. We further find that our decision here is sufficient to meet the consideration and determination requirement of PURPA section 115(i).

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that the new PURPA Standard 14, Time-based Metering and Communications, shall not be adopted by this Commission for the reasons discussed above. It is further

ORDERED that the findings made in the body of this Order are hereby approved in every respect. It is further

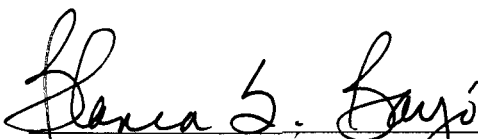
ORDERED that all matters contained in the attachments and schedules appended hereto are incorporated herein by reference. It is further

ORDER NO. PSC-07-0212-PAA-EU
DOCKET NO. 070022-EU
PAGE 14

ORDERED that the provisions of this Order, issued as proposed agency action, shall become final and effective upon the issuance of a Consummating Order unless an appropriate petition, in the form provided by Rule 28-106.201, Florida Administrative Code, is received by the Director, Division of the Commission Clerk and Administrative Services, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on the date set forth in the "Notice of Further Proceedings" attached hereto. It is further

ORDERED that in the event this Order becomes final, this docket shall be closed upon the issuance of the Consummating Order.

By ORDER of the Florida Public Service Commission this 7th day of March, 2007.



BLANCA S. BAYÓ, Director
Division of the Commission Clerk
and Administrative Services

(S E A L)

MAH

NOTICE OF FURTHER PROCEEDINGS OR JUDICIAL REVIEW

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any administrative hearing that is available under Section 120.57, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing will be granted or result in the relief sought.

Mediation may be available on a case-by-case basis. If mediation is conducted, it does not affect a substantially interested person's right to a hearing.

The action proposed herein is preliminary in nature. Any person whose substantial interests are affected by the action proposed by this order may file a petition for a formal proceeding, in the form provided by Rule 28-106.201, Florida Administrative Code. This petition must be received by the Director, Division of the Commission Clerk and Administrative Services, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on March 28, 2007.

In the absence of such a petition, this order shall become final and effective upon the issuance of a Consummating Order.

Any objection or protest filed in this/these docket(s) before the issuance date of this order is considered abandoned unless it satisfies the foregoing conditions and is renewed within the specified protest period.

Florida Power & Light Company

RATE SCHEDULE	1A - TYPE OF CUSTOMERS ELIGIBLE	ELIGIBLE POPULATION	PARTICIPATING NUMBER OF CUSTOMERS AS OF APRIL 2006	1C - PARTICIPATION RATE
<p>RST-1 Residential Service -Time of Use</p>	<p>For service for all domestic purposes in individually metered dwelling units and in duplexes and triplexes, including the separately-metered non-commercial facilities of a residential Customer (i.e., garages, water pumps, etc.). Also for service to commonly-owned facilities of condominium, cooperative and homeowners' associations as set forth on Sheet No. 8.211, Rider CU. This is an optional rate available to residential customers upon request subject to availability of meters.</p>	<p>RESIDENTIAL 3,893,317</p>	<p>206</p>	<p>.005%</p>
<p>GST-1 General Service - Non Demand - Time of Use (0-20 kW)</p>	<p>For electric service required for commercial or industrial lighting, power and any other purpose with a demand of 20 kw or less. This is an optional rate available to General Service - Non Demand customers upon request subject to availability of meters.</p>	<p>NON-DEMAND 390,535</p>	<p>288</p>	<p>.074%</p>
<p>GSDT-1 General Service Demand - Time of Use (21-499 kW)</p>	<p>For electric service required for commercial or industrial lighting, power and any other purpose with a measured Demand in excess of 20 kw and less than 500 kw. Customers with Demands of less than 21 kw may enter an agreement for service under this schedule based on a Demand Charge for a minimum of 21 kw. This is an optional rate available to General Service Demand customers upon request subject to availability of meters.</p>	<p>SMALL DEMAND 95,321</p>	<p>1,583</p>	<p>1.661%</p>

<p>GSLDT-1 General Service Large Demand - Time of Use (500-1999 kW)</p>	<p>For electric service required for commercial or industrial lighting, power and any other purpose to any Customer with a measured demand of 500 kw and less than 2,000 kw. Customers with demands of less than 500 kw may enter an agreement for service under this schedule based on a Demand Charge for a minimum of 500 kw. This is an optional rate available to General Service Large Demand customers upon request subject to availability of meters.</p>	<p>MEDIUM DEMAND 3,389</p>	<p>248</p>	<p>7.318%</p>
<p>CST-1 Curtable Service -Time of Use (500-1999 kW)</p>	<p>For any commercial or industrial Customer who qualifies for Rate Schedule GSLD-1 (500 kw - 1,999 kw) and will curtail this Demand by 200 kw or more upon request of the Company from time to time. This is an optional Rate Schedule available to Curtable General Service Customers upon request. Customers with demands of at least 200 kw but less than 500 kw may enter an agreement for service under this Rate Schedule based on a Demand Charge for a minimum of 500 kw.</p>	<p>MEDIUM DEMAND 3,389</p>	<p>15</p>	<p>.443%</p>
<i>SUBTOTAL MEDIUM DEMAND</i>		3,389	263	7.760%
<p>GSLDT-2 General Service Large Demand - Time of Use (2000 kW +)</p>	<p>For electric service required for commercial or industrial lighting, power and any other purpose to any Customer who has established a measured demand of 2,000 kw or more. Customers with demands of less than 2,000 kw may enter an agreement for service under this schedule based on a demand charge for a minimum of 2,000 kw.</p>	<p>LARGE DEMAND 163</p>	<p>31</p>	<p>19.018%</p>

<p>CST-2 Curtable Service -Time of Use (2000 kW +)</p>	<p>For any commercial or industrial Customer who qualifies for Rate Schedule GSLDT-2 (2,000 kw and above) and will curtail this Demand by 200 kw or more upon request of the Company from time to time. Customers with demands of less than 2,000 kw may enter an agreement for service under this schedule based on a Demand Charge for a minimum of 2,000 kw.</p>	<p>LARGE DEMAND 163</p>	<p>7</p>	<p>4.294%</p>
<p>CST-3 Curtable Service -Time of Use (2000 kW +)</p>	<p>For any commercial or industrial Customer who qualifies for Rate Schedule GSLDT-3 and will curtail this Demand by 200 kw or more upon request of the Company from time to time.</p>	<p>LARGE DEMAND 163</p>	<p>1</p>	<p>.613%</p>
<p>GSLDT-3 General Service Large Demand - Time of Use (2000 kW +)</p>	<p>For electric service required for commercial or industrial lighting, power and any other purpose to any Customer who has established a measured demand of 2,000 kw or more. Customers with demands of less than 2,000 kw may enter an agreement for service under this schedule based on a minimum demand charge of 2,000 kw times the maximum demand charge at the available transmission voltage of 69 kv or higher.</p>	<p>LARGE DEMAND 163</p>	<p>4</p>	<p>2.454%</p>
<p>SUBTOTAL LARGE DEMAND</p>		<p>163</p>	<p>43</p>	<p>26.380%</p>

<p>HLFT High Load Factor – Time of Use ⁽¹⁾</p>	<p>For electric service required for commercial or industrial lighting, power and any other purpose with a measured Demand in excess of 20 kW. This is an optional rate schedule available to customers otherwise served under the GSD-1, GSDT-1, GSLD-1, GSLDT-1, GSLD-2, or GSLDT-2 Rate Schedules.</p>	<p>SMALL DEMAND + MEDIUM DEMAND + LARGE DEMAND 98,873</p>	<p>1,774</p>	<p>1.794%</p>
<p>SST-1 Standby and Supplemental Service</p>	<p>For electric service to any Customer, at a point of delivery, whose electric service requirements for the Customer's load are supplied or supplemented from the Customer's generation equipment at that point of service and require standby and/or supplemental service. For purposes of determining applicability of this rate schedule, the following definitions shall be used: (1) "Standby Service" means electric energy or capacity supplied by the Company to replace energy or capacity ordinarily generated by the Customer's own generation equipment during periods of either scheduled (maintenance) or unscheduled (backup) outages of all or a portion of the Customer's generation. (2) "Supplemental Service" means electric energy or capacity supplied by the Company in addition to that which is normally provided by the Customer's own generation equipment. A Customer is required to take service under this rate schedule if the Customer's total generation capacity is more than 20% of the Customer's total electrical</p>	<p>SMALL DEMAND + MEDIUM DEMAND + LARGE DEMAND 98,873</p>	<p>15</p>	<p>.015%</p>

	load and the Customer's generators are not for emergency purposes only. Customers taking service under this rate schedule shall enter into a Standby and Supplemental Service Agreement ("Agreement"); however, failure to execute such an agreement will not pre-empt the application of this rate schedule for service.			
SDTR Seasonal Demand – Time of Use Rider ⁽²⁾	For electric service required for commercial or industrial lighting, power and any other purpose with a measured Demand in excess of 20 kW. This is an optional rate available to customers otherwise served under the GSD-1 GSDT-1, GSLD-1, GSLDT-1, GSLD-2 or GSLDT-2 Rate Schedules.	SMALL DEMAND + MEDIUM DEMAND + LARGE DEMAND 98,873	682	.690%
<i>SUBTOTAL SMALL + MEDIUM + LARGE DEMAND</i>		98,873	2,471	2.500%

- (1) The HLFT tariff was initially effective on January 1, 2006.
- (2) The SDTR tariff was initially effective on January 1, 2006.

1b. FPL has a wide variety of customer communications that are used to make customers aware of options. Depending on the customer, e.g., residential, small business, etc, FPL uses the following communication strategies:

- Letters
- Back of Bill Statements
- Bill Envelope Message
- Bill Inserts
- FPL E-mail to Customers
- Signs and Brochures at pay Agencies
- Care Center Employees
- Field Visits
- Assigned Account Visits
- FPL.Com
- Care Center VRU Message

1d. Costs for metering, record keeping, billing, and other costs for utility interaction for specific programs are recovered through base rates.

- 1e. All Time Differentiated Rate Schedules require at least a time of use meter or, in some cases, a demand interval meter the costs of which are recovered through base rates.
- 1f. For those tariffs that reflect a time-differentiated energy charge, implementation of the first billing month provides for a comparison with the standard bill to be sent to the customer. After the initial comparison month, the bill is calculated solely on the time-differentiated energy charges. For those tariffs that include credits for demand savings, the amount of the credit is specifically identified on the customer's bill allowing a comparison to the standard (i.e., otherwise applicable) rate. Subject to the Term of Service and/or Provisions for Early Termination in the tariff, the customer may request transfer to a different rate schedule.
- 1g. FPL's optional time differentiated rate schedules provide price signals which encourage shifts in energy consumption to off-peak, (i.e., lower cost) periods, assist the customers in achieving savings on their bills, play an integral role in customer satisfaction, and in meeting customer expectation of FPL to offer cost-based high-quality products and services that meet their needs.
- 1h. Goals for the demand and energy savings from FPL's optional time differentiated rate schedules are not available by rate schedule. While there are no specific goals for FPL's optional time differentiated rate schedules, the participation rates provided in response to 1c above, with rate schedule participation rates ranging to almost 25% for the Large Demand eligible population, demonstrate the success of FPL's implementation of these services.

LOAD MANAGEMENT PROGRAMS	2A - TYPE OF CUSTOMERS ELIGIBLE	ELIGIBLE POPULATION	PARTICIPATING NUMBER OF CUSTOMERS AS OF APRIL 2006	2C - PARTICIPATION RATE	
<p align="center">GSL General Service Load Management Program</p>	To customers receiving service under Rate Schedules GS-1 and GSD-1 who elect to participate in this program, who utilize direct expansion central electric air conditioning and have operating hours that include 3 p.m. to 5 p.m., a minimum of four weekdays per week.	<p align="center">NON-DEMAND + SMALL DEMAND 485,856</p>	<p align="center">18,506</p>	<p align="center">3.809%</p>	
<p align="center">RSL/RLP RESIDENTIAL LOAD CONTROL / MANAGEMENT</p>	To Customers receiving service under Rate Schedule RS-1 who elect to participate in Residential Load Control and who utilize at least one of the following installed electrical appliances at the Customer's premise: 1. Conventional electric water heater 2. Central electric air conditioning 3. Swimming pool pump (including pool sweeps as appropriate) 4. Central electric space heating*	<p align="center">RESIDENTIAL 3,893,317</p>	<p align="center">724,268</p>	<p align="center">18.603%</p>	

LOAD MANAGEMENT PROGRAMS	2A - TYPE OF CUSTOMERS ELIGIBLE	ELIGIBLE POPULATION	PARTICIPATING NUMBER OF CUSTOMERS AS OF APRIL 2006	2C - PARTICIPATION RATE
	<p>*Central electric space heating systems alone are ineligible for Pilot Project participation. These systems are eligible for Pilot Project participation only when one (or more) of the other 3 appliances listed above is (are) signed up for participation.</p> <p>This Rate Schedule is not applicable for service to commonly-owned facilities of condominium, cooperative, or homeowners' associations.</p>			
<p>CILC/CDR Commercial/Industrial Load Control / Demand Reduction</p> <p>Note: Customer who participate in these programs may be on a standard rate or a time of use rate</p>	<p>For electric service provided to any commercial or industrial customer as a part of the Commercial/Industrial Load Control Program Agreement between the Customer and the Company, who agrees to allow the Company to control at least 200 kw of the Customer's load, or agrees to operate Backup Generation Equipment (see Definitions) and designate (if applicable) additional controllable demand to serve at least 200 kw of the Customer's own load during periods when the Company is controlling load. A Customer shall enter into a "Commercial/Industrial Load Control Program Agreement" with the Company for service under this schedule. To establish the initial qualification for service under this schedule, the Customer must have had an On-Peak Demand (as defined below) during the summer rating period (April through October) for at least three of the previous twelve (12) months of at least 200 kw greater than the Firm Demand or Controllable Demand (as applicable) level specified in Section 4 of the</p>	<p>Customers with at least 200 KW of Demand 8066</p>	<p>540</p>	<p>6.7%</p>

LOAD MANAGEMENT PROGRAMS	2A - TYPE OF CUSTOMERS ELIGIBLE	ELIGIBLE POPULATION	PARTICIPATING NUMBER OF CUSTOMERS AS OF APRIL 2006	2C - PARTICIPATION RATE
	Commercial/Industrial Load Control Program Agreement. This controlled load shall not be served on a firm service basis until service has been terminated under this rate schedule.			

2b. FPL has a wide variety of customer communications that are used to make customers aware of options. Depending on the customer, e.g., residential, small business, etc, FPL uses the following communication strategies:

- Letters
- Back of Bill Statements
- Bill Envelope Message
- Bill Inserts
- FPL E-mail to Customers
- Signs and Brochures at pay Agencies
- Care Center Employees
- Field Visits
- Assigned Account Visits
- FPL.Com
- Care Center VRU Message

LOAD MANAGEMENT PROGRAMS	2d – UTILITY COSTS PER PARTICIPANT	2d – UTILITY COST RECOVERY	2d – CUSTOMER COST	2e – SPECIAL EQUIPMENT
GSL General Service Load Management Program	One time cost of \$282 for recruitment/equipment installation. \$142 annual cost for incentives and ongoing O&M	All costs recovered through ECCR	None	Load Management transponder installed at customer facility
RSL/RLP RESIDENTIAL LOAD CONTROL /	One time cost of \$184 for recruitment/equipment installation. \$82 annual cost for incentives and ongoing	All costs recovered through ECCR	None	Load Management transponder installed at customer facility

LOAD MANAGEMENT PROGRAMS	2d – UTILITY COSTS PER PARTICIPANT	2d – UTILITY COST RECOVERY	2d – CUSTOMER COST	2e – SPECIAL EQUIPMENT
MANAGEMENT	O&M			
CILC/CDR Commercial/Industrial Load Control / Demand Reduction	One time cost of \$853 for recruitment/equipment installation. \$62,736 annual cost for incentives and ongoing O&M	All costs recovered through ECCR except special equipment (2e) which is collected through base rates via the monthly customer charge	Varies based on customer loads being controlled	Load Management junction box, printer & alarm installed at customer facility as well as interval metering

2f As part of FPL’s Integrated Resource Planning process, the optimal amount of each load management program is determined. This analysis looks at both the cost-effectiveness of each option based on the FPSC’s approved cost-effectiveness methodology as well as usable amounts of each program based on projected impacts FPL’s system peak day load shapes. This analysis determines the cost-effective annual goals for each program.

2g The primary goals of all of FPL’s load management programs are cost-effective capacity deferral and providing rate options to our customers.

2h FPL has been very successful in implementing its load management programs. The cumulative goals for these programs have consistently been met or exceeded.

3. FPL is currently evaluating the capabilities and functionality to be delivered with automated/advanced metering. The minimum requirements for an advanced metering infrastructure would include the ability to obtain daily readings along with hourly interval usage from the metered residential and small business endpoints. This type of information is currently not available via current metering and thus not available to our residential and small business customers today. There are plans to provide this information to customers via our web site to help the customer understand prior usage patterns. Additional functionality being considered includes: flexible bill dates, rate analysis, prepayment programs, usage monitoring, and other programs that would utilize more frequent readings and usage information.

Advanced metering will also require capabilities to provide power quality event tracking. This would include counters for power interruptions, meter removals, and reverse rotation. Optimally, advanced metering would provide the capability to identify outages occurring and/or customers that are without power. The network information collected could be used to identify power quality issues that impact the delivery of reliable electrical service.

FPL currently has approximately 50,000 advanced metering endpoints installed and under evaluation. Current plans are to continue the meter deployment for all residential and small business customers starting in 2007 through 2012.

4. FPL had a Real Time Pricing (RTP) pilot rate from 1994 to 2002. The objective of the pilot was to determine if large business customers would respond to day ahead hourly pricing by adjusting their electric usage. FPL found that very few customers were interested in participating in the pilot and only about 40 percent of the pilot participants reacted to high RTP prices.

FPL is currently performing a study to determine the feasibility and potential customer acceptance of new time varying rates for both residential and business customers. For residential customers FPL is investigating the feasibility of an alternative time varying rate that customers can better utilize to shift consumption and maximize savings and participation. In 2006 FPL has implemented the High Load Factor Time of Use rate and Seasonal Demand Time of Use Rider for business customers. The current investigation involves identifying and evaluating complimentary rate and pricing structures that encourage greater load shifting behavior by customers and price stability.

In addition to rate based programs, FPL is continuing to evaluate emerging technologies including the use of web linked programmable thermostats to develop additional load management programs to the existing load management portfolio.

CONFIDENTIAL
P. 070022-EU
CONFIDENTIAL



June 12, 2006

Ms. Connie S. Kummer
Bureau of Certification, Economics and Tariffs
Division of Economic Regulation
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0850

Dear Ms. Kummer:

Re: 2005 Energy Policy Act, Section 1252, Requirements Related to Smart Metering

Pursuant to your letter dated May 11, 2006, attached is Gulf Power Company's response to the survey as related to Section 1252 of the Energy Policy Act of 2005 regarding Smart Metering. Please give me a call if you have any questions.

Sincerely,

Susan D. Pitman

lw

Attachment

cc: Beggs and Lane
Jeffrey A. Stone, Esquire

GULF POWER COMPANY

Energy Policy Act 2005 Section 1252

Public Service Commission

Staff Survey

1. For each time differentiated rate schedule offered by the utility, please provide the following information:

RSVP

Residential Service Variable Pricing

- a. What type of customers are eligible to take service under the rate schedule?
See Question # 2
- b. How are customers made aware that the option exists?
See Question # 2
- c. What is the participation rate for the eligible population of customers?
See Question # 2
- d. What costs are incurred to allow a customer to take service under the rate?
(metering, record keeping, billing, other utility interaction specific to the program, etc.)
See Question # 2

How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
See Question # 2
- e. What special equipment is required to take service under this rate?
See Question # 2

Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
See Question # 2
- f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?
No
- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
See Question # 2
- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.
See Question # 2

GSTOU

General Service Time-of-Use Conservation

- a. What type of customers are eligible to take service under the rate schedule?
Customers whose highest actual measured demand covering their entire electrical requirement is not more than 499 kilowatts.
- b. How are customers made aware that the option exists?
Annual notification through bill inserts
- c. What is the participation rate for the eligible population of customers?
2.8%
- d. What costs are incurred to allow a customer to take service under the rate?
(metering, record keeping, billing, other utility interaction specific to the program, etc.)
Metering

How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
Base rates
- e. What special equipment is required to take service under this rate?
Time-of-use meters

Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
No
- f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?
No
- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
Enhance customer satisfaction, reflect cost and value, promote efficiency, and simplify price structure.
- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.
Goals stated in (g) above are achieved.

GSDT

General Service - Demand - Time-of-Use Conservation

- a. What type of customers are eligible to take service under the rate schedule?
Customers whose highest actual measured demand covering their entire electrical requirement is not more than 499 kilowatts.
- b. How are customers made aware that the option exists?
Annual notification through bill inserts
- c. What is the participation rate for the eligible population of customers?
0.8%
- d. What costs are incurred to allow a customer to take service under the rate?
(metering, record keeping, billing, other utility interaction specific to the program, etc.)
Metering

How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
Base rates
- e. What special equipment is required to take service under this rate?
Time-of-use meters

Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
No
- f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?
No
- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
Enhance customer satisfaction, reflect cost and value, and promote efficiency.
- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.
Goals stated in (g) above are achieved.

LPT

Large Power Service Time-of-Use Conservation

- a. What type of customers are eligible to take service under the rate schedule?
Customers with three phase general service.
- b. How are customers made aware that the option exists?
Annual notification through bill inserts
- c. What is the participation rate for the eligible population of customers?
36.2%
- d. What costs are incurred to allow a customer to take service under the rate?
(metering, record keeping, billing, other utility interaction specific to the program, etc.)
Metering

How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
Base rates
- e. What special equipment is required to take service under this rate?
Time-of-use meters

Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
No
- f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?
No
- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
Enhance customer satisfaction, reflect cost and value, and promote efficiency.
- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.
Goals stated in (g) above are achieved.

PXT

Large High Load Factor Power Service Time-of-Use Conservation

- a. What type of customers are eligible to take service under the rate schedule?
Customers with three phase lighting and power service whose actual measured demand is not less than 7,500 kilowatts, with an annual load factor of not less than 75%.
- b. How are customers made aware that the option exists?
Annual notification through bill inserts
- c. What is the participation rate for the eligible population of customers?
50.0%
- d. What costs are incurred to allow a customer to take service under the rate?
(metering, record keeping, billing, other utility interaction specific to the program, etc.)
Metering and Translation

How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
Base rates
- e. What special equipment is required to take service under this rate?
Time-of-use meters and translator

Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
No
- f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?
Yes
- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
Enhance customer satisfaction, reflect cost and value, and promote efficiency.
- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.
Goals stated in (g) above are achieved.

RTP
Real Time Pricing

- a. What type of customers are eligible to take service under the rate schedule?
Customers with an annual peak load not less than 2,000 KW.
- b. How are customers made aware that the option exists?
Customers are made aware of the rate option by the company's major account reps.
- c. What is the participation rate for the eligible population of customers?
43.2%
- d. What costs are incurred to allow a customer to take service under the rate?
(metering, record keeping, billing, other utility interaction specific to the program, etc.)
Metering and Communications

How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
Base rates
- e. What special equipment is required to take service under this rate?
TOU meter with 2-way communications.

Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
No
- f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?
No
- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
Demand savings, enhance customer satisfaction, reflect cost and value, and promote efficiency.
- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.
Goals stated in (g) above are achieved.

2. Please provide a short description of each demand side management program or tariff which allows customers to take advantage of the variation in cost of power production.

GCS**GoodCents Select**

- a. What type of customers are eligible to take service under the program?
Residential Customers meeting these requirements: Must have touch-tone phone service; Service entrance panel or house power panel rated at 200 amps or less; Central heating and air conditioning that is compatible with Company installed energy management equipment; Electric water heaters, pool pumps, or other devices controlled by equipment provided through the program must be no larger than 30 amps and 240 volts each and compatible with Company installed energy management equipment; Electric wiring must be conducive to power line carrier messaging; Residence must be located in an area capable of meeting a paging strength standard; Existing meter configuration must be capable of incorporating the energy management equipment.
- b. How are customers made aware that the option exists?
Customers are made aware of the option through a variety of means. Mass marketing advertisements/communications, direct mail, bill inserts, and communications with company marketing and customer service representatives are the most commonly used methods.
- c. What is the participation rate for the eligible population of customers?
3.4%
- d. What costs are incurred to allow a customer to participate in the program? (metering, record keeping, billing, other utility interaction specific to the program, etc.)
Metering and associated hardware, Communications, Head-end hardware and software.
- How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)
These costs are recovered through the Energy Conservation Cost Recovery clause, and, through a monthly customer participation fee.
- e. What special equipment is required to participate in the program?
The equipment required to take service under this program is: a communications gateway, a price responsive programmable thermostat, load control modules, and a conventional residential meter specially adapted to accept either a pulse initiator or dial encoder device.
- Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.
No
- f. Are there technical or financial limits to the number of customers who may participate in the program? (i.e. Rule 25-6.0438, Florida Administrative Code)
No
- g. What is the goal of the program? (for example, energy savings, demand savings, cost reduction, reliability, customer options)
The goals of the GoodCents Select program are energy savings, demand reduction, cost savings, and enhanced customer satisfaction.

- h. Explain the extent to which the goal(s) of the program have been achieved. Average energy savings per household is 762 kWh per year. Average demand reduction per household is 1.73 kW cp summer and 2.20 kW cp winter. Costs savings are reflected in the program's successful RIM and Participants tests. The latest customer satisfaction ratings indicate a 95% satisfaction with the system.

3. **If the utility is installing, or plans to install, any type of automated metering systems to replace existing metering, do these new meters capture more data or provide more services not currently available to customers? If so, please describe what new services or information access is planned, and the timetable for installing the new metering devices.**

There is no plan to install any type of automated metering system at this time.

4. **If in the past five years, the utility has seriously considered implementing, or implemented on a trial basis, time differentiated rate schedules or load management programs, please describe each program and why the utility decided not to offer the program, or why the trial program was terminated.**

No

PEF'S RESPONSES TO EPACT SURVEY, SECTION 1252, SMART METERING

- Q1. For each time differentiated rate schedule offered by the utility, please provide the following information:**
- a. What type of customers are eligible to take service under the rate schedule?**
 - b. How are customers made aware of that the option exists?**
 - c. What is the participation rate for the eligible population of customers?**
 - d. What costs are incurred to allow a customer to take service under the rate? (metering, record keeping, billing, other utility interaction specific to the program, etc.) How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)**
 - e. What special equipment is required to take service under this rate? Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.**
 - f. Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching.**
 - g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options).**
 - h. Explain the extent to which the goal(s) for each rate schedule have been achieved.**

Answer:

Rate Schedule – RST-1 – Residential Service – Optional Time of Use Rate

- a. All residential customers otherwise eligible for service under Rate Schedule RS-1 are eligible to take service under Rate Schedule RST-1.
- b. Customers are made aware that Rate Schedule RST-1 is available through the Company's tariffs, regular bill inserts, customer service contacts upon initial service, complaint resolutions, and other general customer service programs.
- c. The participation rate for the eligible population of customers is less than 1%.
- d. The cost incurred to take service under Rate Schedule RST-1 is the cost associated with a Time of Use (TOU) meter, (excluding the initial billing program development not specifically identified in our Customer Billing System's development). The cost of the TOU meter is recovered directly from customers as part of the RST-1 customer charge. The customer charge for a TOU meter is meter is approximately twice that of a non-TOU meter. At the customer's option an initial Contribution in Aid of Construction (CIAC) payment can be made and the non-TOU customer charge will apply.
- e. The only special equipment required to take service under Rate Schedule RST-1 is a meter capable of metering time differentiated use (i.e. TOU meter). The customer can only obtain a TOU meter from the Company.

- f. The Company does not have the ability to dual bill; however, if a customer has a TOU meter installed, the Company can provide tariff comparison data to determine the most advantageous tariff for the customer. The Company's RST-1 tariff has certain term of service limitations for switching between TOU and non-TOU tariffs.
- g. The goals of Rate Schedule RST-1 are demand savings, cost reductions, customer choice, price awareness, as well as the ability of the Company to improve overall system load factor.
- h. The Company is providing customer choice and is helping customers understand the price impacts and the benefit of shifting usage to off-peak periods.

Rate Schedule – GST-1 – General Service-Non Demand – Optional Time of Use Rate

- a. All non-residential customers otherwise eligible for service under Rate Schedule GS-1 are eligible to take service under Rate Schedule GST-1.
- b. Customers are made aware that Rate Schedule GST-1 is available through the Company's tariffs, regular bill inserts, customer service contacts upon initial service, complaint resolutions, periodic rate application reviews and other general customer service programs.
- c. The participation rate for the eligible population of customers is less than 1%.
- d. The cost incurred to take service under Rate Schedule GST-1 is the cost associated with a TOU meter, (excluding the initial billing program development not specifically identified in our Customer Billing System's development). The cost of the TOU meter is recovered directly from customers as part of the GST-1 customer charge. The customer charge for a TOU meter is approximately twice that of a non-TOU meter. At the customer's option an initial CIAC payment can be made and the non-TOU customer charge will apply.
- e. The only special equipment required to take service under Rate Schedule GST-1 is a meter capable of metering time differentiated use (i.e. TOU meter). The customer can only obtain a TOU meter from the Company.
- f. The Company does not have the ability to dual bill; however, if a customer has a TOU meter installed, the Company can provide tariff comparison data to determine the most advantageous tariff for the customer. The Company's GST-1 tariff has certain term of service limitations for switching between TOU and non-TOU tariffs.
- g. The goals of Rate Schedule GST-1 are demand savings, cost reductions, customer choice, price awareness, as well as the ability of the Company to improve overall system load factor.

- h. The Company is providing customer choice and is helping customers understand the price impacts and the benefit of shifting usage to off-peak periods.

Rate Schedule – GSDT-1 – General Service-Demand – Optional Time of Use Rate

- a. All customers otherwise eligible for service under Rate Schedule GSD-1 are eligible to take service under Rate Schedule GSDT-1.
- b. Customers are made aware that Rate Schedule GSDT-1 is available through the Company's tariffs, regular bill inserts, customer service contacts upon initial service, complaint resolutions, periodic rate application reviews and other general customer service programs.
- c. The participation rate for the eligible population of customers is approximately 18%.
- d. The cost incurred to take service under Rate Schedule GSDT-1 is the cost associated with a TOU meter, (excluding the initial billing program development not specifically identified in our Customer Billing System's development). The cost of the TOU meter is recovered directly from customers as part of the GSDT-1 customer charge. The customer charge for a TOU meter is meter is approximately twice that of a non-TOU meter. At the customer's option an initial CIAC payment can be made and the non-TOU customer charge will apply.
- e. The only special equipment required to take service under Rate Schedule GSDT-1 is a meter capable of metering time differentiated use (i.e. TOU meter). The customer can only obtain a TOU meter from the Company.
- f. The Company does not have the ability to dual bill; however, if a customer has a TOU meter installed, the Company can provide tariff comparison data to determine the most advantageous tariff for the customer. The Company's GSDT-1 tariff has certain term of service limitations for switching between TOU and non-TOU tariffs.
- g. The goals of Rate Schedule GSDT-1 are demand savings, cost reductions, customer choice, price awareness, as well as the ability of the Company to improve overall system load factor.
- h. The Company is providing customer choice and is helping customers understand the price impacts and the benefit of shifting usage to off-peak periods. Although the Company does not specifically measure these goals in isolation, the participation level for the eligible customer population would indicate that the goals of demand savings, cost reductions and improvement to overall system load factor have been met.

Rate Schedules – CST-1, CST-2 & CST-3 – Curtailable General Service – Optional Time of Use Rates

- a. All customers otherwise eligible for service under Rate Schedule CS-1, CS-2 and CS-3 are eligible to take service under Rate Schedules CST-1, CST-2 or CST-3, respectively.
- b. Customers are made aware that Rate Schedules CST-1, CST-2 and CST-3 are available through the Company's tariffs, regular bill inserts, customer service contacts upon initial service, complaint resolutions, periodic rate application reviews and other general customer service programs.
- c. The participation rate for the eligible population of customers is approximately 55%.
- d. The incremental cost incurred to take service under Rate Schedule CST-1, CST-2 and CST-3 is negligible (excluding the initial billing program development not specifically identified in our Customer Billing System's development).
- e. The only special equipment required to take service under Rate Schedule CST-1, CST-2 and CST-3 is a meter capable of metering time differentiated use (i.e. TOU meter). The customer can only obtain a TOU meter from the Company.
- f. The Company does not have the ability to dual bill; however, if a customer has a TOU meter installed, the Company can provide tariff comparison data to determine the most advantageous tariff for the customer. The Company's CST-1, CST-2 and CST-3 tariffs have certain term of service limitations for switching between TOU and non-TOU tariffs.
- g. The goals of Rate Schedule CST-1, CST-2 and CST-3 are demand savings, cost reductions, customer choice, price awareness, as well as the ability of the Company to improve overall system load factor.
- h. The Company is providing customer choice and is helping customers understand the price impacts and the benefit of shifting usage to off-peak periods. Although the Company does not specifically measure these goals in isolation, the participation level for the eligible customer population would indicate that the goals of demand savings, cost reductions and improvement to overall system load factor have been met.

Rate Schedules – IST-1, IST-2 & IST-3 – Interruptible General Service – Optional Time of Use Rate

- a. All customers otherwise eligible for service under Rate Schedule IS-1, IS-2 and IS-3 are eligible to take service under Rate Schedules IST-1, IST-2 or IST-3, respectively.

- b. Customers are made aware that Rate Schedules IST-1, IST-2 and IST-3 are available through the Company's tariffs, regular bill inserts, customer service contacts upon initial service, complaint resolutions, periodic rate application reviews and other general customer service programs.
- c. The participation rate for the eligible population of customers is 100%.
- d. The incremental costs incurred to take service under Rate Schedule IST-1, IST-2 and IST-3 is negligible (excluding the initial billing program development not specifically identified in our Customer Billing System's development).
- e. The only special equipment required to take service under Rate Schedule IST-1, IST-2 and IST-3 is a meter capable of metering time differentiated use (i.e. TOU meter). The customer can only obtain a TOU meter from the Company.
- f. The Company does not have the ability to dual bill; however, if the customer has a TOU meter installed, the Company can provide tariff comparison data to determine the most advantageous tariff for the customer. The Company's IST-1, IST-2 and IST-3 tariffs have certain term of service limitations for switching between TOU and non-TOU tariffs.
- g. The goals of Rate Schedule IST-1, IST-2 and IST-3 are demand savings, cost reductions, customer choice, price awareness, as well as the ability of the Company to improve overall system load factor.
- h. The Company is providing customer choice and is helping customers understand the price impacts and the benefit of shifting usage to off-peak periods. Although the Company does not specifically measure these goals in isolation, the participation level for the eligible customer population would indicate that the goals of demand savings, cost reductions and improvement to overall system load factor have been met.

Q2. Please provide a short description of each demand side management program or tariff which allows customers to take advantage the variation in cost of power production.

- a. **What type of customers are eligible to take service under the program?**
- b. **How are customers made aware that the option exists?**
- c. **What is the participation rate for the eligible population of customers?**
- d. **What costs are incurred to allow a customer to participate in the program? (metering, record keeping, billing, other utility interaction specific to the program, etc.) How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)**
- e. **What special equipment is required to participate in the program? Is the customer able to obtain the required equipment from any entity besides the regulated utility? If so, please describe the other sources of metering equipment.**

- f. **Are there technical or financial limits to the number of customers who may participate in the program? (i.e. Rule 25-6.0438, Florida Administrative Code)**
- g. **What is the goal of the program? (for example, energy savings, demand savings, cost reduction, reliability, customer options)**
- h. **Explain the extent to which the goal(s) of the program have been achieved.**

Answer:

PEF does not have any Demand Side Management (DSM) programs or DSM tariffs that allow customers to take advantage of the variation in cost of power production.

- Q3. **If the utility is installing, or plans to install, any type of automated metering systems to replace existing metering, do these new meters capture more data or provide more services not currently available to customers? If so, please describe what new services or information access is planned, and the timetable for installing the new metering devices.**

Answer:

The Company is installing 1.5 million (non-demand) electronic meters manufactured by Itron as part of its Mobile Meter Reading (MMR) Project. Florida installations are scheduled to be completed in September, 2006.

The vast majority of the meters being installed are CENTRON® R300's. This is a solid-state, residential meter that transmits cumulative energy consumption and tamper data via high-powered radio frequencies. The data is collected using drive-by receivers called mobile data collectors. These MMR meters have the capability to collect and transmit more detailed information to an automated meter reading system through a fixed communications network.

- Q4. **If in the past five years, the utility has seriously considered implementing, or implemented on a trial basis, time differentiated rate schedules or load management programs, please describe each program and why the utility decided not to offer the program, or why the trial program was terminated.**

Answer:

PEF ran a pilot program for researching a new load management program in collaboration with the University of Florida and Universidad Politécnica de Valencia from January 1, 2003 to February 28, 2005. This program, called the Demand Response Opportunity Pilot (DROP), enabled pilot customers to decide when and if they could reduce load, and at what price they wanted to participate in the Demand Response (DR) event. The results of the DROP program showed that a voluntary pay per use demand response program using market based prices would be ineffective in obtaining any significant load relief during peak load periods from the customer class that participated in the pilot. Prices of up to \$2.00 per kWh were offered to nine (commercial, industrial and governmental customers) accounts and minimal participation produced very little peak load reduction. The typical high market value of \$0.20 to \$0.40 per kWh was well below most of the participant's threshold for action.

Some issues identified during the pilot that would be critical for successful implementation include:

- Automated customer response to enable shorter response times.
- Baseline accuracy is necessary to correctly calculate the demand response incentive.
- Customer load reduction greater than 15% of baseline.
- Strong customer incentives to motivate customer response.
- Accurate selection of market (Retail facilities have limited demand reduction capabilities in their present state).

While such a program is ineffective at this time, PEF will continue to look at time differentiated rate schedules as technology evolves and processes are automated.



June 12, 2006

Ms. Connie S. Kummer
Bureau of Certification, Economics & Tariffs
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

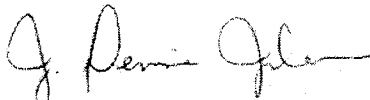
Re: Tampa Electric Company
Undocketed – Energy Policy Act 2005 Section 1252 Survey

Dear Ms. Kummer:

Enclosed is Tampa Electric Company's response to your survey dated May 11, 2006 regarding information on the "Smart Metering" standard set forth in Section 1252 of the Energy Policy Act of 2005 (EPAct).

If you have any questions or need further information, please contact me at 813-228-1834.

Sincerely,



J. Denise Jordan
Director, Rates & Planning
Tampa Electric Company

Enclosure

cc: Jim Beasley, Esq.
Billy Stiles

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**Tampa Electric's Response to Public Service Commission Staff
Survey
Energy Policy Act 2005 Section 1252**

1. For each time differentiated rate schedule offered by the utility, please provide the following information:

a. What types of customers are eligible to take service under this rate schedule?

<u>Description</u>	<u>Rate Schedule</u>
Time-of-day Residential	RST
Time-of-day General Service-Non demand	GST
Time-of-day General Service-Demand	GSDT
Time-of-day General Service-Large Demand	GSLDT
Time-of-day Industrial Interruptible Service	IST-1
Time-of-day Interruptible Service	IST-3
Time-of-day Firm Standby and Supplementary Service	SBFT
Industrial Interruptible Standby and Supplemental Service	SBIT-1
Interruptible Standby and Supplemental Service	SBIT-3
Residential Service Variable Pricing (pilot)	RSVP-1

b. How are customers made aware that the eligible option exists?

For all rate schedules offered by Tampa Electric, customers are made aware of the time-of-use options through bill inserts and company web sites. In addition, when customer service professionals talk to customers, these options are made aware to the customer.

Note: RSVP-1 is a limited participation pilot, therefore awareness of the program is not made known to all residential customers yet.

c. What is the participation rate for the eligible population of customers?

Rate Schedule	Customers	Percent/Participation
RST	45	0.01%
GST	1,957	3.24%
GSDT	775	5.77%

GSLDT	99	49.75%
IST-1	28	84.85%
IST-3	11	68.75%
SBFT	7	100.00%
SBIT-1	3	100.00%
SBIT-3	7	100.00%
RSVP-1	229	0.04%

- d. **What costs are incurred to allow a customer to take service under the rate? (metering, record keeping, billing, other utility interaction specific to the program, etc.) How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)**

Tampa Electric incurs meter, meter reading, billing, collection and customer information and service costs to permit customers to take service under the following time-of-day (TOD) rates described in the response to Survey Question 1.a:

RST	GSLDT	IST-1
GST	IST-3	SBIT-1
GSDT	SBFT	SBIT-3
RSVP-1		

In addition, incremental administrative and general expense is required to maintain the separate TOD subsystem for revised billings to TOD customers as periodic rate changes to that subsystem are required (e.g., revisions due to changes in recovery clauses such as fuel, environmental, etc.).

With the exception of RSVP-1 where costs are recovered through the Energy Conservation Cost Recovery clause, the costs listed above are intended to be recovered through base rates. TOD rates RST, GST and GSDT have higher monthly customer charge components than the standard rate. These higher charges are imposed to recover the higher cost of metering the TOD customers under those schedules. An option is provided for the customer taking TOD service under RST, GST and GSDT to make a one-time payment to have the monthly customer charge reduced to the standard rate charge level.

- e. **What special equipment is required to take service under this rate? Is the customer able to obtain the required equipment from any other entity besides the regulated utility? If so, please describe the other sources of metering equipment.**

RST	Time of use meter plus meter programming
GST	Time of use meter plus meter programming
GSDT	Time of use meter capable of interval data and MV90 support
GSLDT	Includes 0.2 percent revenue meter capable of interval data, modem, meter programming and MV90 support
IST-1	Includes time of use meter capable of interval data, modem, meter programming, telemetry for EMS and interrupting device
IST-3	Includes time of use meter capable of interval data, modem, meter programming, telemetry for EMS and interrupting device
SBFT	Includes time of use meter capable of interval data, modem, meter programming, telemetry for EMS and interrupting device
SBIT-1	Includes time of use meter capable of interval data, modem, meter programming, telemetry for EMS and interrupting device
SBIT-3	Includes time of use meter capable of interval data, modem, meter programming, telemetry for EMS and interrupting device
RSVP-1	Includes programmable thermostat, load control relays for water heating and pool pumps (when present) and a two-way communication gateway capable of recording integral data with remote data downloads

Customers are not permitted to obtain the required equipment from any other entity other than the regulated utility.

- f. **Does the utility have the capability to dual bill customers to allow them to compare time sensitive rates to standard rates prior to switching?**

This information is not provided on the monthly bill, and meters capable of providing data required to perform this comparison are

not used for billing standard customers, except for the largest customers who are billed using interval meters.

- g. What is the goal of each rate schedule? (for example, energy savings, demand savings, cost reduction, reliability, customer options)**

With the exception of RSVP-1, the goal of each rate schedule was to permit Tampa Electric to comply with Florida Public Service Commission orders directing how the company would comply with The Public Utilities Regulatory Policies Act of 1978. The goals of the RSVP-1 rate schedule include energy savings, demand savings and customer options.

- h. Explain the extent to which the goal(s) for each rate schedule have been achieved.**

With the exception of RSVP-1, the goals have been achieved. RSVP-1 is still in pilot stage and it has not been determined for certain that the goals have been achieved.

- 2. Please provide a short description of each demand side management program or tariff which allows customers to take advantage of the variation in cost of power production.**

- a. What types of customers are eligible to take service under this program?**

Currently Tampa Electric has one residential pilot program that allows customers to take advantage of the variation in cost of power production (rate schedule RSVP-1, see question 1 (a))

Program Description

The price responsive load management pilot known as Energy Planner (i.e. RSVP-1) is a residential load management program designed to achieve both reduction of weather sensitive peak loads and energy conservation. The program relies on a multi-tiered, fixed period rate structure combined with some company discretion critical price signals conveyed to participating customers. The pricing structure is designed to encourage customers to make behavioral or equipment usage changes to their energy consumption thereby achieving the desired high cost period load reduction to assist in meeting system peak along with some overall energy conservation.

Price information from the utility is used by the customer to program a smart thermostat into preset actions based on the level of pricing. Certain home equipment (e.g., HVAC equipment, water heater, pool pump) may be turned on, turned off or changed to a different temperature setting automatically by the smart thermostat or manually by the customer through the smart thermostat in response to the multi tiered rates or critical price signals.

b. How are customers made aware that the option exists?

This program is still in the pilot phase and not yet available to all customers.

c. What is the participation rate for the eligible population of customers?

See response to question 1 (c)

d. What costs are incurred to allow a customer to participate in the program? (metering, record keeping, billing, other utility interaction specific to the program, etc.) How are these costs recovered? (directly from customers, recovery clause, base rates, etc.)

See response to question 1 (d)

e. What special equipment is required to participate in the program? Is the customer able to obtain the required equipment from any other entity besides the regulated utility? If so, please describe the other sources of metering equipment.

See response to question 1 (e)

f. Are there technical or financial limits to the number of customers who may participate in the program? (i.e., Rule 25-6.0438, Florida Administrative Code)

Yes. Limited participation during pilot evaluation.

g. What is the goal of the program? (for example, energy savings, demand savings, cost reduction, reliability, customer options)

The goals for the pilot program are demand and energy reductions as well as providing customer options.

h. Explain the extent to which the goal(s) for each rate schedule have been achieved.

Preliminary data indicates all goals can be achieved. Further monitoring and evaluation will be necessary before final determination that goals have been achieved and before a request can be made to the Florida Public Service Commission that the program be put into full production.

3. If the utility is installing, or plans to install any type of automated metering systems to replace existing metering, do these new meters capture more data or provide more services not currently available to customers? If so, please describe what new services or information access is planned, and the timetable for installing the new metering devices.

Tampa Electric is in the process of replacing existing meters with meters capable of automated meter reading (AMR). However this type of AMR equipment does not capture more data or provide more services than currently available.

4. If in the past five years, the utility has seriously considered implementing, or implemented on a trial basis, time differentiated rate schedules or load management programs. Please describe each program and why the utility decided not to offer the program, or why the trial program was terminated.

See answer to 2(a) above. The company has also considered expanding the Energy Planner approach to GS level customers, but such expansion awaits the completion of the RSVP-1 pilot.