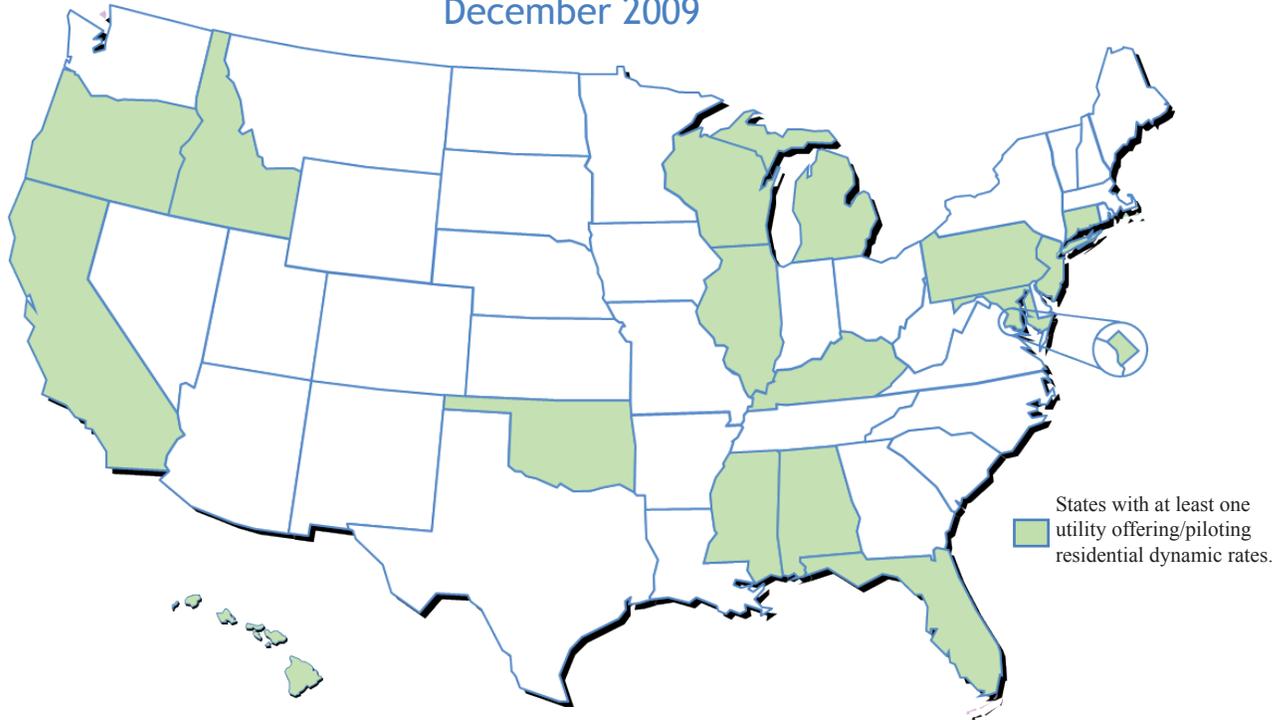




Summary of IOU-Administered Residential Customer Dynamic Pricing Pilots & Programs by State

December 2009



This map indicates which states have at least one IOU-administered **dynamic pricing** program available to residential customers. Dynamic pricing programs covered in this summary include critical peak pricing (CPP), real time pricing (RTP), and peak time rebate (PTR)/critical peak rebate (CPR) rate structures. Time-of-use (TOU) rates are not included because they are not dynamic in nature. DOE Smart Grid Investment Grant (SGIG) recipients are noted with an asterisk(*).

State	Utility	Program Details
Alabama	Alabama Power Co.*	APCO instituted CPP as part of their SmartPOWER pilot in the Birmingham area for approximately 300 customers. They receive off-peak (3 cents), intermediate (6.2 cents), on-peak (13 cents), and critical peak (30.5 cents) rates during the summer period (June-September), and lower off-peak and intermediate rates the rest of the year. Off-peak rates apply on weekends and holidays.
California	San Diego Gas & Electric	SDG&E currently offers a PTR rate that credits \$0.75/kWh during critical peak periods for customers without enabling technologies and \$1.25/kWh for those customers with enabling technologies. This rate is available for all residential and small business customers in their service area.
	Southern California Edison	As of September 2009, TOU and CPP rates are available to residential customers whether or not they have a “SmartConnect” meter. SCE also plans to offer a PTR rate to those customers that have a SmartConnect meter installed starting in 2010.

State	Utility	Program Details
California (cont.)	Pacific Gas & Electric	<p>PG&E is currently operating a “SmartRate” program, which includes a CPP program (60 cents for peak times on “SmartDays,” applicable only May-October). The program is open to customers with installed smart meters and offers bill protection through a participant’s first summer.</p> <p>A recent CPUC decision requires PG&E to make dynamic rates available to all customers. As an initial step, PG&E is required to offer optional TOU and CPP rates in 2010 and optional RTP rates in 2011 to its small and medium customers including residential customers.</p>
	Statewide Pilot	The state’s three IOUs conducted a statewide pricing pilot (SPP) with the cooperation of the CPUC and the California Energy Commission from July 2003 to December 2004. The three IOUs tested several dynamic rate options among 2,500 customers.
Connecticut	Connecticut Power & Light	CP&L recently completed a pilot under their “Plan-it Wise” program that included CPP and PTR rates for 1,500 customers. The results have been promising: residential customers under the CPP rate structure reduced their peak-time energy use by 23% when using controlling technology and 17% under the PTR rate structure when using the technology.
District of Columbia	Pepco*	Pepco was recently awarded \$44M in SGIG funds to expand their smart meter pilot in Washington, DC, including dynamic pricing (details pending). Under the ongoing PowerCentsDC pilot which runs through Feb. 2010, 1,400 smart meters have been installed. Participants may choose between CPP or CPR rate options.
Florida	Gulf Power*	Gulf Power has had a CPP program (Residential Service Variable Pricing) in effect since 2000, consisting of four pricing periods dependant on the time of day and the season (Low - 9 cents, Medium - 10.2 cents, High - 14.8 cents, and Critical - 35.7 cents). The critical periods are called one day prior for winter periods and by noon of the same day in summer. Critical periods may not exceed one percent of the total annual hours. There are approximately 9,000 customers enrolled in the program.
	Tampa Electric	Tampa Electric’s Energy Planner is a CPP program that offers four pricing rates for electricity (Low - 8.9 cents, Medium - 9.5 cents, High - 17.8 cents and Critical - 51.9 cents). The Critical rate can become active at any time and cannot exceed 1.5 percent of the total hours in a year. The program pilot began with 250 customers and is being extended throughout the utility’s service territory. Participants are offered a programmable communicating thermostat (PCT) with the ability to control up to eight appliances.
Idaho	Idaho Power*	“Energy Watch” is a CPP pilot program for customers in the Emmett Valley area. Critical days may be called between June 15 and August 15. Participants pay an off-peak rate of 6.3 cents/kWh and a critical peak rate of 20 cents/kWh.

State	Utility	Program Details
Illinois	Commonwealth Edison	<p>Commonwealth Edison's recently approved AMI Assessment & Customer Applications Plan will include several rates and enabling technologies for residential customers including: a CPP rate (1,600 customers), a PTR rate (1,400 customers), a day-ahead RTP rate, an increasing block rate (IBR), and a TOU rate.</p> <p>In 2007, ComEd transitioned the Community Energy Cooperative (CEC) pilot (2003-06) into a territory-wide RTP program. Participants are notified via phone or email one day prior to days when rates are expected to exceed 14 cents/kWh. Customers can track prices and find other information on www.thewattspot.com.</p>
	Ameren	<p>Ameren has set a goal of enrolling 20,000 customers in their Power Smart Pricing program throughout their three Illinois service territories by 2010 and the rates are open to all residential Ameren customers. Approximately 6,000 have signed up, to date. Prices are listed on Ameren's web site, on www.powersmartpricing.org, or available through a toll-free number. Peak rates can range from 12 cents/kWh to 30 cents/kWh depending on the season.</p>
Kentucky	Louisville Gas & Electric	<p>LG&E initiated a dynamic pricing pilot in 2007 in parallel with their smart meter deployment. The Responsive Pricing program includes CPP and TOU rates and 150 LG&E customers had signed up to the program as of September 2009. There are four tiers of rates: low, medium, high and critical, with the critical rates ranging between \$.29-\$.31/kWh in 2008.</p>
Maryland	Baltimore Gas & Electric*	<p>BGE was awarded SGIG funds to deploy 1.1 million smart meters and a residential "Smart Meter Pricing" program that will include a peak time rebate (PTR) for residential customers. In 2008-2009, BGE conducted a dynamic rate pilot with 1,000 residential customers over two consecutive summers that included dynamic peak pricing (i.e., a CPP rate) and two different peak time rebates. The Maryland PSC is holding hearings in November. If approved, all residential customers with a smart meter may participate in the PTR rate.</p>
Michigan	Detroit Edison Co.*	<p>DTE plans to deploy dynamic pricing pilots in the summer of 2010 as a complement to their AMI rollout. Approval is pending; the utility was recently awarded SGIG funding for their SmartCurrents program, which includes a proposal to deploy dynamic pricing to 5,000 customers.</p>
Mississippi	Mississippi Power Company*	<p>Mississippi Power plans to initiate a CPP pilot for 100 customers that will receive a two-way, programmable thermostat which will inform them of critical-peak events. The exact rate structure has not yet been released.</p>
New Jersey	Public Service Electric & Gas	<p>PSEG piloted "myPower Sense" and "myPower Connection," two TOU/ CPP pilot programs in 2006-07, to 379 participants and 319 participants, respectively, to examine customer response to price signals and technology. Customers in the "myPower Connection" program received a programmable communicating thermostat to automate their response to price signals.</p>

State	Utility	Program Details
Oregon	Portland General Electric	PGE has been approved for a CPP pilot from November 2010 to October 2012 which allows for ten critical peak days in each six month season. PGE is making this rate structure available to all customers with a smart meter and will notify participants on the day prior to each event. Rates vary from 5.6 cents (off-peak) to 7.1 cents (on-peak) and 33.5 cents for critical peak periods. Off-peak rates apply on Sundays and holidays.
Oklahoma	Oklahoma Gas & Electric*	OG&E will include variable peak pricing (VPP - a variant of CPP) for 42,000 participants in its “SmartPower” pilot in Norman, OK. This optional rate plan has four rate tiers: Low (4.5 cents), Standard (11.1 cents), High (23 cents) and Critical (46 cents - events are announced the day prior). The rate includes a “best bill” provision under which the customer will be credited any amount charged through the VPP that exceeds what the customer would have paid under the traditional rate after one year.
Pennsylvania	Allegheny Power	Allegheny Power’s recently approved energy efficiency and conservation plan includes TOU and CPP rate structures for residential customers beginning in 2011. Certain customers will receive a programmable, communicating thermostat capable of receiving price signals from the utility. The customer can reduce energy use voluntarily or choose an automated setting where the thermostat reduces the energy use of the HVAC system.
Wisconsin	Wisconsin Electric Power Company	Wisconsin Electric Power has both CPP and PTR pilots for residential customers. Both pilots will be run through May 2012. The CPP program is available to residential customers that have a meter with automated reading capability and the critical peak rate is 88 cents per kWh (applicable only from 2-6 PM on weekdays). Customers on the PTR pilot will receive a rebate for shifting load of 47 cents per kWh during peak events. Participants in both pilots will receive notifications of peak events the day prior.
	Wisconsin Public Service Corp.	WPSC’s “Response Rewards” program is a CPP program that offers three pricing levels: an on-peak rate of 19.5 cents/kWh, an off-peak rate of 7.1 cents/kWh, and a critical-peak rate that varies. Critical-peak times are limited to a maximum of 150 hours per year. Customers are notified of critical peak hours at least 30 minutes prior.

Note: Information was compiled using data from individual communications with IEE member utilities, announcements and program profiles following the release of federal smart grid investment grants (SGIG), pilot study results, and “A National Assessment of Demand Response Potential” from the Federal Energy Regulatory Commission. SGIG recipients that have not released details of residential pricing programs will be included in the next update. Readers are encouraged to verify the most recent developments by contacting the appropriate utility.

To provide feedback, additions, or to comment, please contact Matthew McCaffree at mmccaffree@edisonfoundation.net. For further information, please visit <http://www.edisonfoundation.net/IEE/>.