Table 1

Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
AEP	IN, OH, OK, TX	**1,199,000**	2,714,000	AEP's Indiana Michigan Power (I&M) subsidiary has deployed 9,917 meters to customers in South Bend, IN; AEP Ohio has deployed 131,635 in the Columbus area; **AEP Texas has deployed 1,024,849**; and AEP's Public Service Company of Oklahoma (PSO) has deployed 32,538 meters. Timing for the remaining deployments will depend on specific conditions in each of the operating company subsidiaries and approval by the relevant utility commissions.	IEI Smart Meter Survey Summer 2014
Allete (d/b/a Minnesota Power)	MN	8,000	8,000	Allete plans to invest $3M and deploy 8,000 smart meters in northeast Minnesota. The utility also intends to purchase automation equipment and begin dynamic pricing program. $1.5M of the project cost is covered by federal funds.	SmartGrid.gov
Alliant Energy	IA, MN	442,300	442,300	**Wisconsin** Power & Light, a subsidiary of Alliant Energy, reached **full deployment** in 2011. Interstate Power & Light has a 1,000 meter pilot supporting the Sustain Dubuque Initiative, which fully deployed in 2010. Additional AMI deployment in IA and MN has been deferred indefinitely.	IEI Smart Meter Survey Summer 2014
Ameren Illinois	IL	0	780,000	Ameren Illinois will have 40,000 meters installed by December 2014 and anticipates 780,000 meters installed by December 2019.	IEI Smart Meter Survey Summer 2014
Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
Avista Utilities	WA	13,000	13,000	Avista has installed 13,000 smart meters in Pullman, WA as part of a five-state, five-year demonstration project leveraging DOE SGDG funds. Long term decisions about future deployment have yet to be made.	IEE Smart Meter Survey Q2 2013
Arizona Public Service	AZ	**1,206,000**	1,206,000	APS achueved **full deployment** at the end of May 2014.	IEI Smart Meter Summer 2014 Survey
Baltimore Gas & Electric	MD	**1,150,000**	1,360,000	BG&E installed 1,115,000 smart meter meters thru May 2014. **Full deployment** is expected by the end of 2014.	IEI Smart Meter Survey Summer 2014
Bangor Hydro-Electric	ME	120,100	120,100	BHE has **fully deployed** 120,100 smart meters in its service territory.	EIA Form 826
Black Hills Energy	CO	96,200	96,200	Black Hills Energy has **fully installed** 96,249 smart meters in **Colorado** and is now testing direct load control and peak time rebate offers with their residential customers.	IEE Smart Meter Q2 2013 Survey; SmartGrid.gov
Black Hills Power	MT, SD, WY	69,600	69,600	Black Hills Power has **fully deployed** 69,607 in its service areas across **Montana, Wyoming, and South Dakota**.	IEE Smart Meter Q2 2013 Survey
CenterPoint Energy	TX	**2,283,000**	**2,283,000**	CenterPoint received approval in 2008 to install an advanced metering system across its service territory. It **completed deployment** in July 2012, installing 2,283,012 smart meters.	IEI Smart Meter Survey Summer 2014; PUCT Docket 36699
Central Maine Power Company	ME	623,800	623,800	Central **Maine** Power Company **completed its smart meter deployment** in 2012, installing 623,790 AMI meters.	IEI Smart Meter Survey Summer 2014
Cheyenne Light, Fuel & Power	WY	39,700	39,700	Cheyenne Light, Fuel & Power **completed** its smart meter installation in 2011.	IEE Smart Meter Q2 2013 Survey
Cleco Power	LA	289,000	289,000	Cleco Power **fully deployed** smart meters across the utility's entire service territory, after receiving approval from the **Louisiana** Public Service Commission in 2011.	IEI Smart Meter Survey Summer 2014
Commonwealth Edison	IL	400,000	4,157,000	In June 2013, ComEd received regulatory approval for full deployment of smart meters. 400,000 smart meters have been deployed with full deployment to over 4 million customers will be complete by 2018, three years in advance of the originally scheduled 2021 completion date.	IEI Smart Meter Survey Summer 2014
Consolidated Edison	NY	4,100	4,100	Con Edison piloted a $6M smart grid program in northwest Queens. 1,500 meters will be deployed and 300 customers will test in-home displays that monitor energy usage by appliance. Intent to file for approval to expand deployments has not been announced	EIA Form 826
Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
Consumers Energy	MI	246,500	1,800,000	As of May 2014, 246,500 smart meters had been deployed with full deployment of 1.8 million meters anticipated by 2018.	IEI Smart Meter Survey Summer 2014
Dominion	NC, VA	223,300	2,704,000	Dominion has completed installation of 223,289 smart meters in **North Carolina** and **Virginia**. The AMI business case and full deployment plans for 2.7M meters are still under development.	IEI Smart Meter Survey Summer 2014
DTE Energy	MI	**1,327,000**	2,603,000	As of May 2014, 1,326,984 meters had been installed with full deployment of 2.6M expected by end of 2017.	IEI Smart Meter Survey Summer 2014
Duke Energy	FL, KY, NC, OH, SC	**1,112,200**	1,269,700	Duke has **fully** deployed 717,000 smart meters in **Ohio**. In other jurisdictions, Duke has achieved targeted deployments of 74,392 meters in Florida; 39,000 in Kentucky; 223,209 in North Carolina; and, 68,650 in South Carolina. An additional 157,500 meters are planned for the Carolinas by year end. Duke is still in its planning stages for deployment in Indiana.	IEI Smart Meter Survey Sunner 2014
Entergy	LA	5,100	19,800	Entergy New Orleans has installed 4,755 smart meters in a dynamic pricing pilot for low-income households in New Orleans. Entergy Louisiana has installed 300 smart meters.	EIA Form 826
FirstEnergy Corporation	MD, OH, PA, WV	56,400	2,153,000	FirstEnergy operating company Illuminating Company in Cleveland, OH installed 32,300 meters as part of a 44,000 meter pilot. In Pennsylvania, Act 129 (2008) requires electric distribution companies with more than 100,000 customers to file a smart meter technology procurement and installation plan. FirstEnergy subsidiary West Penn Power in Pennsylvania installed 23,000 smart meters as part of a pilot with full deployment starting in 2017. Pilot activities in Morgantown, WV and Urbana, MD are testing 1,140 smart meters.	EIA Form 826; SmartGrid.gov First Energy Implementation Plan (Docket M-2013-2341990)
Florida Power & Light Company	FL	**4,625,000**	4,800,000	FPL has **fully deployed** its smart meter program to residential customers. Deployment to remaining 200,000 Commercial and Industrial customers is underway with completion expected in 2015.	IEI Smart Meter Survey Summer 2014
Green Mountain Power	VT	260,600	260,600	Green Mountain Power has deployed 260,600 smart meters to customers across Vermont	EIA Form 826
Idaho Power	ID, OR	512,300	512,300	**Idaho Power has fully deployed** 512,348 smart meters across its service territory in Idaho and Oregon.	IEE Smart Meter Survey Q2 2013; EIA Form 826
Indianapolis Power & Light	IN	11,900	42,000	IPL has installed 11,888 meters, and does not anticipate installing additional meters. IPL intends to not fully deploy AMI to its service territory, instead pairing it with AMR meters.	IEE Smart Meter Survey Q2 2013
Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
Kansas City Power & Light	MO	14,000	14,000	KCP&L completed the installation of 14,000 smart meters in 2011 for its SmartGrid Demonstration project in midtown Kansas City, MO. The project includes piloting in- home displays, demand response thermostats, a web portal, and investments in distributed energy resources, distribution, and substation automation. The project concludes in 2014.	IEE Smart Meter Q1 2012 Survey; KCP&L Smart Grid Presentation
Madison Gas & Electric	WI	5,100	5,900	**MGE is installing a small scale smart grid network** , including 5,100 meters, EV charging stations, and in-home management systems.	IEE Smart Meter Q2 2013 Survey; SmartGrid.gov
National Grid	MA	15,000	15,000	National Grid's pilot was approved by the DPU in August 2012. 15,000 smart meters have been installed in Worcester, MA for a pilot demonstration.	EIA Form 826
NV Energy	NV	**1,205,000**	1,300,000	NV Energy has installed 1.2 million meters and are in the final stages of exchanging meters with major account customers. **Full deployment of 1.3 million is expected by the end of 2014.**	EIA Form 826
Oklahoma Gas & Electric	AR, OK	**871,700**	871,700	**OG&E has fully installed 871,708 meters**: 804,078 in Oklahoma, and 67,630 in Arkansas. Residential customers in Oklahoma can sign up for a **TOU-CPP rate plan as part of the SmartHours program**.	IEE Smart Meter Survey Q1 2012; SmartGrid.gov
Oncor	TX	**3,302,000**	3,302,000	**Oncor has fully deployed 3,302,181** smart meters across its service territory.	EIA Form 861; PUCT Project 36157
Pacific Gas & Electric	CA	**5,140,000**	5,140,000	PG&E has deployed 5.14M meters and completed its SmartMeter Project on December 31, 2013. Customers with smart meters can participate in **PG&E's SmartRate plan, a voluntary critical peak pricing (CPP) rate plan** that will help manage system load during hot summer days, and receive EnergyAlerts which notify customers of when they are moving into higher-priced electricity tiers.	IEI Smart Meter Survey Summer 2014
PECO Energy Company	PA	**1,227,000**	1,600,000	PECO has installed 1,226,665 smart meters, and has moved up its full deployment timeline by five years, indicating **1.6M meters will be installed by the end of 2014.**	EIA Form 826
PEPCO Holdings, Inc.	DC, DE, MD	**1,357,000**	1,360,000	PHI subsidiary Delamarva Power has reached **full deployment in Delaware** with 315,000 meters installed; Pepco has reached full deployment in the District of Columbia with 279,000 meters installed; and, Pepco and Delmarva Power in Maryland has reached full deployment with 763,000 meters installed. There is no active AMI project in New Jersey.	IEI Smart Meter Survey Summer 2014
Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
Portland General Electric	OR	**841,000**	841,000	PGE's smart meter program was approved by the commission in 2008; full deployment was completed by the fall of 2010.	EIA Form 826;
PPL	PA	**1,438,000**	1,438,000	PPL is in compliance with PA Act 129 and has **fully deployed 1,438,000 smart meters** in its service territory. The PA electric distribution companies are engaged in a collaborative process to develop standards and formats for electronic communication of meter data and access by customers and third parties.	IEI Smart Meter Survey Summer 2014; PA Docket No. M-2009-2092655
San Diego Gas & Electric	CA	**1,406,000**	1,406,000	SDG&E has **fully deployed** over 1.4M meters across its service territory. SDG&E is using its Itron meters for bill/usage alerts, demand response, and remote connect/disconnect, among other uses.	IEE Smart Meter Survey Q2 2013
Southern California Edison	CA	**4,990,000**	5,001,000	SCE has deployed roughly 5 million smart meters. Additional deployments are scheduled through 2015 to accommodate population growth. SCE's SmartConnect program uses the meters to offer Critical Peak Pricing (CPP) and Peak Time Rebate (PTR) rates to customers with enabling technology.	EIA Form 826
Southern Company	AL, FL, GA, MS	**4,288,000**	4,470,000	**Southern Company's Georgia Power, Alabama Power, and Gulf Power (FL) are fully deployed**. Georgia Power reached full deployment in 2012 and has 2,395,786 meters, Alabama Power reached full deployment in 2010 and has 1,444,882 meters. Gulf Power reached full deployment in 2012 and has 441,008 meters. **Mississippi** Power has installed 6,716 meters and is **awaiting approva**l from the PSC for full deployment of 188,660 by 2018.	IEI Smart Meter Survey Summer 2014
Texas New Mexico Power	TX	162,300	240,000	In July 2011, TNMP received PUCT approval for full deployment of 240,000 meters in Texas by 2016. It is using Itron meters to facilitate outage detection/restoration and remote connect/ disconnect.	IEE Smart Meter Survey Q2 2013; PUCT Project 39772
United Illuminating	CT	145,300	350,000	United Illuminating has installed roughly 145,300 of its projected 350,000 smart meters. The company is considering expanding its use of IBM meters to natural gas customers as well.	EIA Form 826;
Unitil	MA, NH	104,000	104,000	Unitil has **fully deployed** 104,000 smart meters across its service territory around Concord, NH and Fitchburg, MA. It has used this technology to, among other things, implement a **TOU pricing pilot**.	IEE Smart Meter Q2 2013 Survey
Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
Westar Energy	KS	62,000	132,000	Westar piloted smart meters in its SmartStar project in Lawrence, KS and given the results is deploying meters to additional customers. Currently, Westar has 62,000 smart meters installed with another 30,000 planned by year end 2014 and an additional 40,000 planned for following year. In total, 132,000 smart meters will be installed by year end 2015.	IEI Smart Meter Survey Summer 2014
Xcel Energy	CO	23,700	23,700	Xcel Energy has completed deployment of its pilot project in **Boulder,** CO, as part of its SmartGridCity initiative. It has deployed 23,000 residential meters and 700 commercial meters. **The utility initially planned to install 50,000 meters, but was forced to decrease the deployment due to cost overruns**.	EIA Form 826
Other Investor-Owned Utilities	10 States	193,800	2,141,500	Limited deployments in 10 states by multiple operating companies account for 193,800 smart meter installations.	IEI Smart Meter Survery Summer 2014; EIA Form 826; SmartGrid.gov
Total as of July 2014		**43,115,000**	**60,126,000**		

Fully Deployed Above 800K	11	28,516,800	26,729,700	Almost every big utility has fully implemented, is on track to implement, or awaits regulatory approval.
Very Slow Above 780	7	2,451,100	16,342,600	The slowest are NY and Illinois and Dominion and DTE
Other Above 800	1	1,199,000	2,714,000	Multi-state AEP should be classified as slow. Except for Texas, which has over 1MM.
All Other	23	3,427,100	7,582,100	The small ones have a surprising number at full deployment.
Total	42	35,594,000	53,368,400	

Municipal and Cooperative Utilities

Utility	State	Meters Installed	Target Number of Meters	Notes	Resources
Austin Energy	TX	418,900	418,900	Austin Energy's smart meter program was approved in 2008, and reached **full** deployment of 418,900 in 2009.	IEE Smart Meter Survey Q1 2012
CPS Energy	TX	40,000	707,000	CPS intends to install 700,000 smart meters by 2018. Its initial 40,000 meter pilot, which started in 2011, is complete. Phase two of the deployment will begin in 2014.	EIA Form 826
Los Angeles Department of Water and Power	CA	52,000	52,000	Los Angeles DWP installed 52,000 smart meters as part of its Smart Grid L.A demonstration project. Based on the success of the demonstration project, involving less than 5% of LADWP customers, the utility will consider replacing all existing meters with smart meters.	EIA Form 826; LA DWP Smart Grid L.A. website
JEA	FL	64,800	64,800	After an initial **dynamic pricing pilot** for 3,000 customers, JEA has now installed over 40,000 smart meters.	EIA Form 826
Nebraska Public Power District	NE	47,400	68,500	NPPD is in the process of installing smart meters throughout the state. 68,500 smart meters will be installed by 2015.	EIA Form 826
Sacramento Municipal Utility District	CA	617,500	617,500	SMUD completed full deployment of smart meters within its service territory in 2012. The overall smart grid plan includes dynamic pricing, 100 EV charging stations, and 50,000 demand response controls.	SmartGrid.gov
Salt River Project	AZ	866,000	1,000,000	Salt River Project has currently installed over 860,000 smart meters, and has scheduled to have 1M meters installed by 2013.	EIA Form 826
Tacoma Public Utilities	WA	18,100	152,000	Tacoma Public Utilities currently has over 18,000 smart meters installed and intends to fully deploy over 150,000 meters.	EIA Form 826
Tennessee Valley Authority	TN, MS	606,355	606,355	TVA currently has over 559,000 meters installed.	EIA Form 826
Other Coops and Municipal Utilities	44 States	4,231,945	6,186,945	Over 4M meters have been installed by other municipal utilities, cooperatives, and non-IOU electric distribution companies, with plans to deploy about 5.7M. These electricity providers operate in 45 states.	EIA Form 826; SmartGrid.gov
Total as of July 2014		**6,963,000**	**9,874,000**		

12

Utility Type and State (July 2014)

AK
-
AL
1,491,034
AR
69,055
AZ
1,061,444
CA
11,536,696

13,267 -
236,599
1,000,316
943,038
122,177
24,183 -
11,982
473,857
722,011
29,629
3,104
31,343
58,698
17,052 -
66,474
75,730
23,043 - - -
52,716
17,773
415,126

13,267
1,491,034
305,654
2,061,760
12,479,73
4 242,126
169,455
279,000
326,982
5,614,700
3,182,150
29,659
4,104
526,343
458,698
38,857
76,000
107,474
382,022
67,162

1,878,000

743,914
1,573,482
60,746
31,773
421,955

CO
CT
DC
DE
FL
GA
HI
IA
ID
IL
IN
KS
KY
LA

306,292
MA
44,119
MD
1,878,000
ME
743,914
MI
1,573,482
MN
8,030
MO
14,000
MS
6,829

119,949
145,272
279,000
315,000

5,140,843
2,460,139
30 1,000
495,000
400,000
21,805
76,000
41,000

MT
NC
ND
NE
NH
NJ
-

6 279,488
71,153
58,788
83,326 -
19,262
22,531
20,581
37,600
103,464
38,511
11,554 201
122,386
55,007
559,430
718,739
19,983
153,332
44,864
18,215 -