

## Smart Grid Investment Grant (SGIG) Program Asset Investments



\* Investments include both federal and recipients' cost-share monies

\*\* Number of projects reported: 102

## SGIG Program AMI Expenditures

### SGIG Program AMI Expenditures

as of September 6, 2011

| AMI Assets  | Quantity <sup>*</sup> | Incurred Cost          | Number of projects reporting <sup>**</sup> |
|---|-----------------------|------------------------|--|
| AMI smart meters <sup>***</sup>   | 5,858,051             | \$1,111,112,331        | 70   |
| Communications networks and hardware that enable two way communications             |                       | \$279,454,038          | 67   |
| IT hardware, systems, and applications that enable AMI features and functionalities |                       | \$174,791,643          | 64   |
| Other AMI related costs   |                       | \$131,250,800          | 75   |
| <b>Total AMI cost</b>   |                       | <b>\$1,696,608,813</b> | <b>75</b>                                  |

\* In some circumstances, costs are incurred before devices are installed resulting in a reported cost where the quantity is zero.

\*\* Projects only report data on devices they plan to install. Each project installs equipment that best supports their individual goals. Therefore, the number of projects reporting is expected to vary by equipment category. The individual project reporting pages show what equipment that project is installing.

\*\*\*SGIG recipients are also required to submit monthly reports to DOE through SIPRIS that include the number of smart meters they have installed. DOE reports both numbers. The count provided here includes meters that are installed AND functioning (i.e., they are transmitting information to the utility in support of their primary function). The SIPRIS numbers report the number of meters installed.

**Smart Meters Installed and Operational  
as of September 6, 2011**



\*\* Number of projects reported: 70

## SGIG Program Customer System Asset Expenditures

**SGIG Program Customer System Asset Expenditures**

as of September 6, 2011

| Customer System Assets   | Quantity<br>** | Incurred Cost        | Number of projects reporting<br>** |
|--|----------------|----------------------|------------------------------------|
| In home displays   | 6,564          | \$4,707,716          | 42                                 |
| Direct load control devices  | 467,403        | \$69,815,276         | 44                                 |
| Programmable communicating thermostats   | 143,045        | \$46,239,384         | 34                                 |
| Smart appliances   | 100            | \$416,033            | 7                                  |
| Communication networks and home area networks                                      |                | \$0                  | 0                                  |
| IT hardware, systems, and applications that enable CS features and functionalities |                | \$104,916,048        | 45                                 |
| Other customer system related costs  |                | \$27,166,609         | 71                                 |
| <b>Total customer system cost</b>  |                | <b>\$253,261,065</b> | <b>71</b>                          |

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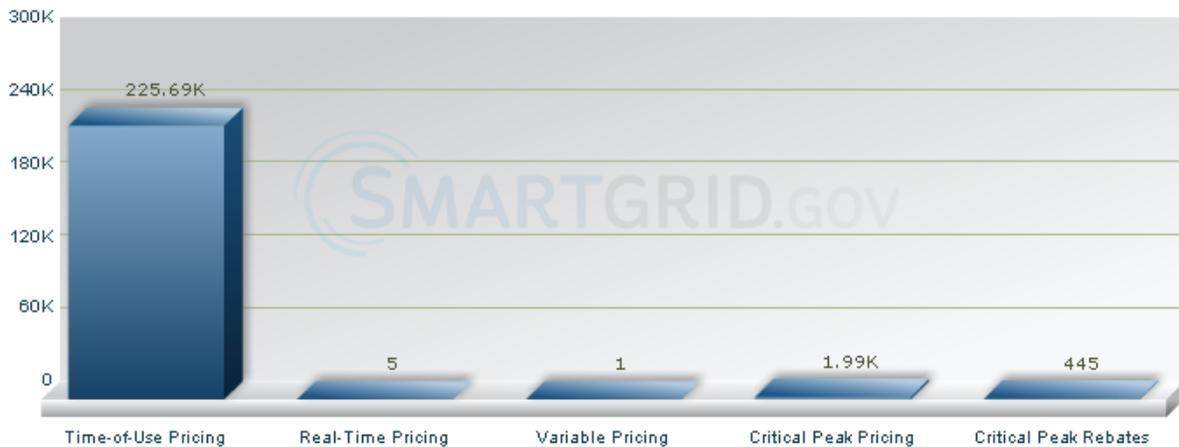
\*\* Projects only report data on devices they plan to install. Each project installs equipment that best supports their individual goals. Therefore, the number of projects reporting is expected to vary by equipment category. The individual project reporting pages show what equipment that project is installing.

**Customer Devices Installed and Operational  
as of September 6, 2011**



\*\* Number of projects reported: 61

**Customers with Smart Meters Enrolled in Pricing Programs  
as of September 6, 2011**



\*\* Number of projects reported: 37

## SGIG Program Electric Distribution Asset Expenditures

### SGIG Program Electric Distribution Asset Expenditures

as of September 6, 2011

| <b>Electric Distribution Automation Assets</b>                                  | <b>Quantity<sup>*</sup></b> | <b>Incurred Cost</b> | <b>Number of projects reporting<sup>**</sup></b> |
|---|-----------------------------|----------------------|--|
| Automated feeder switches   | 3,357                       | \$224,404,845        | 46   |
| Automated capacitors  | 5,833                       | \$54,867,965         | 43   |
| Automated regulators  | 2,581                       | \$13,659,339         | 32   |
| Fault current limiter   | 0                           | \$653,541            | 4  |
| Feeder monitors   | 704                         | \$59,733,953         | 27   |
| Substation monitor  | 6,292                       | \$41,516,420         | 17   |
| Distribution automation/Substation communication networks                       |                             | \$67,213,578         | 51   |
| Distribution management systems   |                             | \$61,890,907         | 36   |
| IT hardware, systems, and applications that enable distribution functionalities |                             | \$12,682,025         | 25   |
| Other electric distribution automation related costs                            |                             | \$61,713,605         | 62   |
| <b>Total electric distribution automation cost</b>                              |                             | <b>\$598,336,177</b> | <b>62</b>  |

| Electric Distribution Distributed Energy Resource (DER) Assets | Quantity * | Incurred Cost      | Number of projects reporting ** |
|--|------------|--------------------|---------------------------------|
| Distributed generation   | 233        | \$0                | 10                              |
| Renewable DER  | 0          | \$0                | 0                               |
| Stationary electricity storage                                 | 164        | \$3,465,831        | 3                               |
| Plug in electric vehicles / charging stations                  | 6          | \$164,774          | 10                              |
| DER interconnection and communication equipment                | 5          | \$38,850           | 5                               |
| Other DER related costs  |            | \$1,897,098        | 21                              |
| <b>Total electric DER cost</b>                                 |            | <b>\$5,566,553</b> | <b>21</b>                       |

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**Distribution Circuits with Automation Equipment**  
as of September 6, 2011



\*\* Number of projects reported: 24

## SGIG Electric Transmission System Asset Expenditures

### SGIG Program Electric Transmission Asset Expenditures

as of September 6, 2011

| Electric Transmission System Assets   | Quantity * | Incurred Cost        | Number of projects reporting ** |
|---|------------|----------------------|---------------------------------|
| PMUs  | 123        | \$8,125,655          | 12                              |
| Phasor data concentrators   | 21         | \$2,084,696          | 12                              |
| Dynamic rating systems  | 0          | \$0                  | 0                               |
| IT hardware, systems, and applications that enable transmission functionalities |            | \$18,970,092         | 31                              |
| Advanced applications   |            | \$11,147,144         | 14                              |
| Other transmission related costs  |            | \$60,521,602         | 21                              |
| <b>Total transmission installed cost</b>  |            | <b>\$100,849,189</b> | <b>21</b>                       |

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\*\* Projects only report data on devices they plan to install. Each project installs equipment that best supports their individual goals. Therefore, the number of projects reporting is expected to vary by equipment category. The individual project reporting pages show what equipment that project is installing.

### Phasor Measurement Units (PMUs) Installed and Operational

as of September 6, 2011



\*\* Number of projects reported: 12