



U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability

Smart Grid Investment Grant (SGIG)

SGIG Kickoff
Welcome and Overview

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Purposes of SGIG Kickoff

(why are we here)

- **Familiarize SGIG selectees with Grant Award Process**
- **Introduce Federal personnel responsible for negotiating your award**
- **Elaborate on specific project requirements/expectations**
 - **Project Management**
 - **Data requirements for metrics and benefits tracking**
 - **ARRA reporting requirements**
 - **Cyber security requirements**
- **Bring SGIG companies together to foster sharing of best practices and lessons learned**

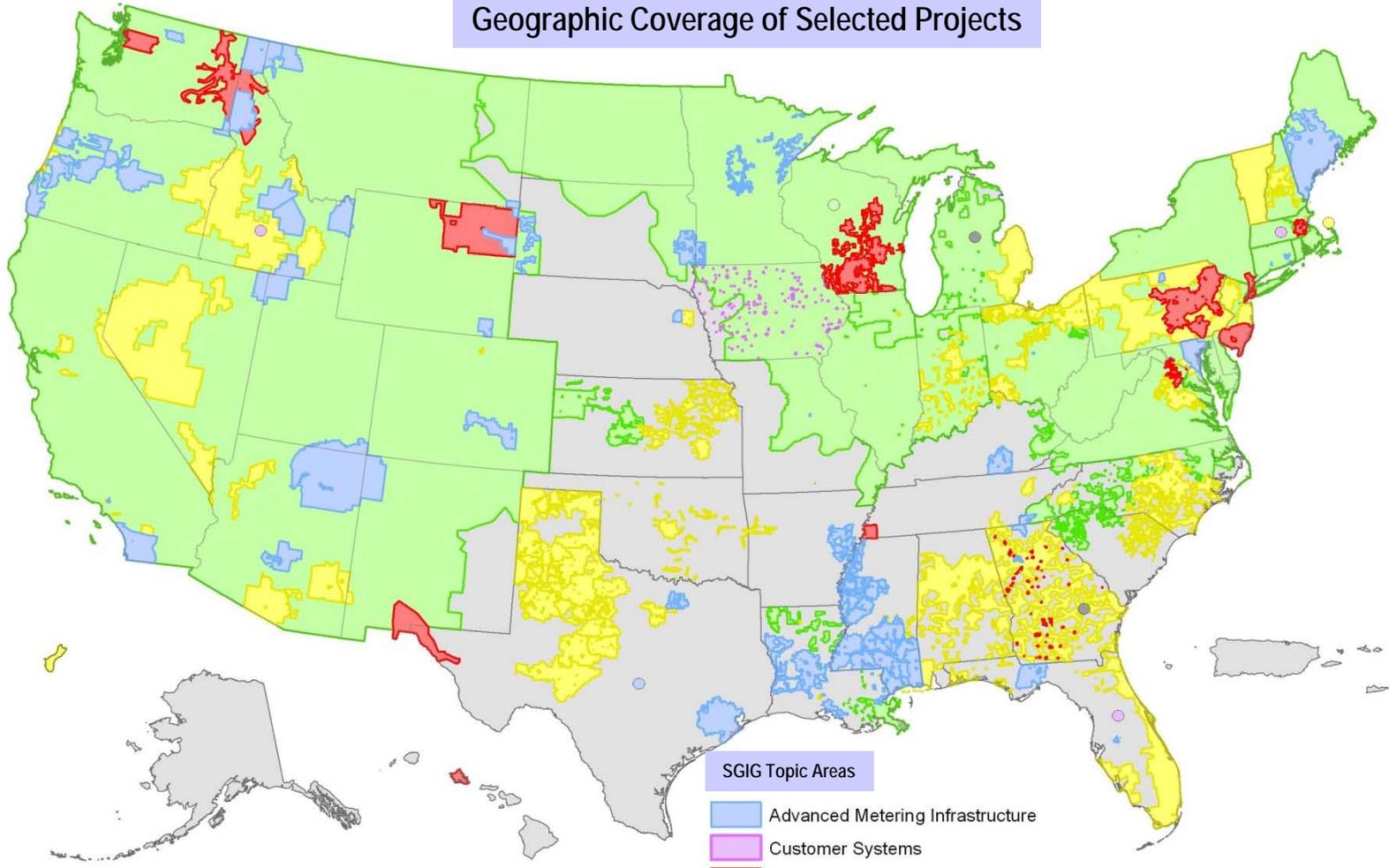


Summary of SGIG Selections

Topic Area	Number of Applications Selected/ Conforming	Federal Funding (\$)	Applicant Funding (\$)	Applicant Cost Share (%)
Equipment Manufacturing	2/14	25,786,501	25,807,502	50.02
Customer Systems	5/27	32,402,210	34,933,413	51.88
Advanced Metering Infrastructure	31/138	818,245,749	1,194,272,137	59.34
Electric Distribution	13/39	254,260,753	254,738,977	50.05
Electric Transmission	10/28	147,990,985	150,454,793	50.41
Integrated and Crosscutting	39/143	2,150,505,323	3,082,366,420	59.09
Total	100/389	3,429,191,521	4,742,573,246	58.04



Geographic Coverage of Selected Projects



SGIG Topic Areas

- Advanced Metering Infrastructure
- Customer Systems
- Electric Systems Distribution
- Electric Transmission Systems
- Equipment Manufacturing
- Integrated and/or Crosscutting Systems

100 Projects

Circle indicates project where specific utility/area is not known.

SMART GRID INVESTMENT GRANTS



SGIG Systems and Equipment

Smart Grid Systems and Equipment	Numbers of Units (self-reported estimates)	Improvements	Impacts
Networked Phasor Measurement Units	877	<ul style="list-style-type: none"> • Near-nationwide coverage • 6X the 166 existing networked PMUs 	<i>Enhanced situational awareness and electric system reliability and resiliency</i>
Smart Transformers	205,983	<ul style="list-style-type: none"> • Enables preventative maintenance 	
Automated Substations	671	<ul style="list-style-type: none"> • 5% of 12,466 transmission and distribution substations in the U.S. 	
Load Control Devices	176,814	<ul style="list-style-type: none"> • Enables peak demand reductions 	<i>1444 MWs of peak demand reduction per year (self-reported estimates)</i>
Smart Thermostats	170,218	<ul style="list-style-type: none"> • Enables peak demand reductions 	
Smart Meters	18,179,912	<ul style="list-style-type: none"> • 13% of the 142 million customers in the U.S. 	<i>Transformational changes in consumer behavior and energy consumption</i>
In-Home Display Units	1,183,265	<ul style="list-style-type: none"> • Enables customer empowerment 	
PHEVs/Charging Stations	12/100	<ul style="list-style-type: none"> • Accelerates market entry 	<i>Begins the path toward energy independence</i>



Expectations for Success

Collaboration

- *Timely and accurate information flow at all times*

Effective support

- *Appropriate guidance and assistance provided when needed*

Open and candid project communications

Problems raised and successes highlighted

Stellar project performance

- *All milestones accomplished on time and within budget*



Information Flow





Looking Back from 2020...

- **SGIG projects will have played a transformative role in the modernization of the U.S. electric grid**
- **SGIG project benefits, impacts, business models, and case studies will have been replicated in electricity markets around the world**
- **We will have all participated in one of the most exciting and ground breaking undertakings of our professional careers**



Negotiation Team #1

Technical Negotiator: Don Macdonald

Contract Specialist: Carrie Brown

Projects Assigned

- Navaho Tribal Utility Association
- City of Anaheim Public Utilities Department
- Sacramento Municipal Utility District
- Modesto Irrigation District
- City of Burbank
- City of Glendale
- Black Hills Corporation
- City of Fort Collins Utilities
- Guam Power Authority
- Hawaii Electric Co. Inc.
- NV Energy
- Salt River Project
- Pacific Northwest Generating Cooperative
- Central Lincoln People's Utility District
- Avista Utilities
- Snohomish County PUD
- Cheyenne Light, Fuel and Power Company
- Powder River Energy Corporation
- San Diego Gas and Electric
- S.W. Transmission Cooperative
- M2M Communications
- Idaho Power Company



Negotiation Team #2

Technical Negotiator: Steve Bossart

Contract Specialist: Malik Simone

Projects Assigned

- Connecticut Municipal Electric Energy Cooperative
- Marblehead Municipal Light Department
- Honeywell International, Inc.
- NSTAR Electric Company
- Town of Danvers, MA
- Vineyard Energy Project
- Baltimore Gas and Electric Company
- Central Maine Power Company
- New Hampshire Electric Cooperative
- Potomac Electric Power Company/Atlantic City Electric
- Consolidated Edison Company of New York, Inc.
- Wellsboro Electric Company
- PPL Electric Utilities
- PECO Energy Company
- Vermont Transco, LLC



Negotiation Team #3

Technical Negotiator: Eric Lightner

Contract Specialist: Mary Barnes

Projects Assigned

- **Potomac Electric Power Company (MD Smart Grid)**
- **Potomac Electric Power Company (DC Smart Grid)**
- **Cobb Electric Membership Corporation**
- **Tri State Electric Membership Corporation**
- **Municipal Electric Authority of Georgia**
- **Georgia System Operations Corporation Inc.**
- **Progress Energy Service Company**
- **Duke Energy Business Services LLC**
- **Northern Virginia Electric Cooperative**
- **Rappahannock Electric Cooperative**



Negotiation Team #4

Technical Negotiator: Chris Irwin

Contract Specialist: Krystal Paige

Projects Assigned

- **Lakeland Electric**
- **Talquin Electric Cooperative, Inc.**
- **City of Quincy**
- **City of Tallahassee**
- **Intellon Corporation**
- **Florida Power & Light Company**
- **City of Leesburg, Florida**
- **JEA**
- **Cleco Power LLC**
- **Entergy New Orleans, Inc.**
- **City of Ruston, Louisiana**
- **Lafayette Consolidated Government**
- **South Mississippi Electric Power Association**
- **CenterPoint Energy/Houston Electric, LLC**
- **Denton County Electric Cooperative**
- **Reliant Energy Retail Services, LLC**
- **El Paso Electric**
- **Golden Spread Electric Cooperative, Inc.**



Negotiation Team #5

Technical Negotiator: Dan Ton
Contract Specialist: Bernie Watts

Projects Assigned

- Southern Company Services, Inc.
- Woodruff Electric
- Iowa Association of Municipal Utilities
- City of Naperville, Illinois
- Indianapolis Power and Light Company
- City of Auburn, IN
- Westar Energy, Inc.
- South Kentucky Rural Electric Cooperative Corporation
- Whirlpool Corporation
- Detroit Edison Company
- Allete Inc./Minnesota Power
- City of Fulton, Missouri
- Stanton County Public Power District
- Cuming County Public Power District
- City of Westerville
- FirstEnergy Service Company
- City of Wadsworth, OH
- Oklahoma Gas and Electric Company
- Black Hills Corporation
- Sioux Valley Energy
- Memphis Light, Gas and Water Division
- Electric Power Board of Chattanooga
- Knoxville Utilities Board
- Wisconsin Power and Light Company
- Madison Gas and Electric Company



Negotiation Team #6

Technical Negotiator: Phil Overholt

Contract Specialist: Jessy Abellard

Projects Assigned

- **Midwest Independent Transmission System Operator**
- **Midwest Energy Inc.**
- **Entergy Services, Inc.**
- **ISO New England, Incorporated**
- **Duke Energy Carolinas, LLC**
- **New York Independent System Operator, Inc.**
- **PJM Interconnection, LLC**
- **Western Electricity Coordinating Council**
- **American Transmission Company LLC (Enhanced SCADA and PMU Communications Backbone)**
- **American Transmission Company LLC (PMU)**



Negotiations Teams Contact Information

Team #	Negotiator	Email	Phone Number
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