

## Workforce Training for the Electric Power Sector

HQ State	HQ City	Name of Primary Selectee	Project Type	Project Title and Brief Project Description	Project Locations	Recovery Act Funding*	Total Project Value Including Cost Share
AZ	Fort Defiance	Navajo Tribal Utility Authority Company	Smart Grid Workforce Training (Topic B)	Navajo Tribal Utility Authority Smart Grid Workforce Training Program - Develop a workforce that is well-trained and committed to the mission of modernizing NTUA's distribution services, including an expeditious and well-built smart grid system. The training program is designed to maximize employment opportunities for citizens of the Navajo Nation located on the reservation.	Arizona New Mexico	\$704,486	\$1,408,971
<b>AZ Total</b>						<b>\$704,486</b>	<b>\$1,408,971</b>
CA	Glendale	Glendale Community College	Developing and Enhancing Workforce Training Programs (Topic A)	Southern California Utility Initiative - Expand training curricula and programs in the Southern California region. The project will raise awareness and interest in careers in utilities, address the predicted number of workers eligible for retirement, and focus on training the workforce from the local community. The project is also intended to provide an electrical engineering pathway from the community college to the university level.	California	\$750,000	\$1,136,000
	Irvine	Composite Technology Corporation	Smart Grid Workforce Training (Topic B)	Workforce Training for Operations and Management of New CTC Facility in Sikeston, MO to Manufacture High Efficiency ACCC (Aluminum Conductor Composite Core) Transmission Conductor - Support training of 200 workers in hourly production positions, 37 in support positions and 13 in management and technical positions for a conductor manufacturing facility.	Missouri	\$1,250,000	\$2,500,000
	Sacramento	University Enterprises, Inc. (on behalf of CSU Sacramento)	Developing and Enhancing Workforce Training Programs (Topic A)	California Smart Grid Workforce Development Network - Engage electric utilities, California State University campuses, California Community Colleges, labor unions, and smart grid manufacturers to create, execute, and evolve a statewide workforce development strategy. The project's collaborating utilities include PG&E, Southern California Edison, and Sacramento Municipal Utility District.	California	\$749,992	\$833,347
<b>CA Total</b>						<b>\$2,749,992</b>	<b>\$4,469,347</b>
CO	Boulder	University of Colorado, Boulder	Strategic Training and Education in Power Systems (STEPS - Topic A)	Strategic Training in Networking for Power Systems - Build a sustainable graduate engineering program with a focus on networking, wireless communications, and cyber security within electric power systems. The academic program is designed for students seeking a full Master of Science degree or a shorter certificate and can be flexibly completed on-campus or from anywhere online.	Colorado	\$2,470,343	\$2,747,079
<b>CO Total</b>						<b>\$2,470,343</b>	<b>\$2,747,079</b>
DC	Washington	Pepco Holdings, Inc.	Smart Grid Workforce Training (Topic B)	PHI Smart Grid Workforce Training Project - Ensure a well-trained and highly skilled workforce with the requisite knowledge, expertise, and capabilities to a) implement, operate, and enhance the Smart Grid; and b) provide sound energy advice to customers. 700 new and existing employees will receive training in order to fill new roles and enhance existing ones.	District of Columbia Delaware Maryland New Jersey	\$4,376,050	\$8,752,100
<b>DC Total</b>						<b>\$4,376,050</b>	<b>\$8,752,100</b>

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FL	Juno Beach	Florida Power & Light Company	Smart Grid Workforce Training (Topic B)	Gateway to Power (G2P): Development of Innovative Strategic Electric Power, Renewable Energy, and Smart Grid Workforce Training - Transform the traditional approach to electric power workforce training by bringing industry and academia together to design and execute workforce training initiatives that will produce multidisciplinary standards in power systems that holistically address smart grid technologies. Through FPL's Energy Smart Florida project, over 6,000 new jobs are being created for which workforce training may be necessary.	Florida Iowa Massachusetts New York Texas	\$5,000,000	\$12,539,735
FL Total						\$5,000,000	\$12,539,735
GA	Atlanta	Georgia Tech Research Corporation/NEETRAC	Developing and Enhancing Workforce Training Programs (Topic A)	Electrical Power Transmission & Distribution Connector Selection & Installation Training - Develop training for line crews and engineers to enhance their skills in connector selection and installation, so that they can design, install, and maintain high reliability next generation networks.	Georgia	\$647,368	\$719,298
	Savannah	Savannah Technical College	Developing and Enhancing Workforce Training Programs (Topic A)	Workforce Development for the Electric Utility Industry in Southeast Georgia and South Carolina Low Country - Develop and deliver a curriculum sequence of courses in Electrical Utility Technology to address the eminent shortage of technically-current and qualified utility technicians and middle-level technical personnel in Southeast Georgia and South Carolina Low country. Topics include smart grid, mini grids, renewable energy, and utility-tie-in of distributed sources.	Georgia	\$695,100	\$1,733,200
GA Total						\$1,342,468	\$2,452,498
HI	Honolulu	Pacific Center for Advanced Technology Training (University of Hawaii Community Colleges)	Developing and Enhancing Workforce Training Programs (Topic A)	Electric Power Sector Training - Develop and enhance a career pathway for technicians that will deploy and maintain electric power transmission and distribution through the application of smart grid technologies. The project will provide a pathway for traditional high school graduates to become technicians to maintain the Smart Grid (two-year certificate program) and offer industry-certified courses for displaced workers, non-traditional students and the incumbent workforce (workforce development /non-credit program).	Hawaii	\$750,000	\$833,000
		University of Hawaii	Strategic Training and Education in Power Systems (STEPS - Topic A)	Integrated Education and Research in Clean Energy and Island Sustainability - Develop a new cross-disciplinary program that will include Responsive and Dynamic (RAD) training coupled with foundational research-based curricula in the areas of clean energy technologies, renewable energy production, storage, integration and smart grid technologies. The program will enable formal and tailored training techniques (rotational and short courses) to provide outreach to communities and provide technology transfer opportunities.	Hawaii	\$2,500,000	\$2,777,778
HI Total						\$3,250,000	\$3,610,778

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IA	Marshalltown	Iowa Valley Community College District	Developing and Enhancing Workforce Training Programs (Topic A)	Iowa Valley Collaborative Line worker Training and Awareness Project - Streamline the apprenticeship system to increase flow in the line worker pipeline. The project builds awareness of the line worker career among displaced workers from other sectors, underemployed individuals seeking better jobs, and high school students to recruit them into a pre-employment diploma program, placing 80% of its graduates in electric power sector jobs.	Iowa	\$634,399	\$761,279
<b>IA Total</b>						<b>\$634,399</b>	<b>\$761,279</b>
ID	Idaho Falls	Critical Intelligence, Inc.	Developing and Enhancing Workforce Training Programs (Topic A)	Critical Intelligence Training for energy sector information security employees to deal with targeted cyber attacks known as Advanced Persistent Threat - Develop a 12-week instructor-led online course that trains energy sector information security employees to detect and respond to targeting from and exploitation by sophisticated threat actors. The training will fill gaps left by current trainings intended to provide information security know-how to the electric sector workforce.	Idaho	\$463,176	\$578,970
	Meridian	Key Training Corporation	Developing and Enhancing Workforce Training Programs (Topic A)	Grid Training Modernization Project - Develop new training strategies, programs, and delivery methods for the workers who will install, maintain, and operate the clean energy Smart Grid, including electrical line workers, substation technicians, system operators, smart meter technicians, and transmission technicians. More than 2500 electrical line workers over the next three years will gain the ability to build and maintain transmission lines and intelli-grid distribution systems, and based on previous performance, approximately 13% of these trainees will have been displaced and unemployed workers.	California	\$750,000	\$1,722,012
<b>ID Total</b>						<b>\$1,213,176</b>	<b>\$2,300,982</b>
IL	Chicago	Council for Adult and Experiential Learning	Smart Grid Workforce Training (Topic B)	EPCE Workforce Preparedness for Smart Grid Deployment - Create new online curriculum to train current and future electric power industry workers that will support clean energy solutions and smart grid deployment. This project will provide critical workforce preparedness training for more than 1,800 current and future employees of six electric power entities - Arizona Public Service, Com Ed (an Exelon company), JEA, Northeast Utilities, PECO (an Exelon company), and PJM Interconnection.	Illinois Arizona Colorado Connecticut Florida Massachusetts New Hampshire North Dakota Pennsylvania	\$2,549,467	\$5,398,961
		Illinois Institute of Technology	Smart Grid Workforce Training (Topic B)	A World-Class Smart Grid Education and Workforce Training Center - Develop and deploy smart grid technology courses and certificate programs via instructor-led and distance-learning methodologies. The Center is expected to train about 49,000 power industry employees, union workers, teachers, and students in a three year period.	Illinois California Mississippi South Dakota Tennessee	\$4,999,999	\$12,620,153
<b>IL Total</b>						<b>\$7,549,466</b>	<b>\$18,019,114</b>
IN	Indianapolis	Ivy Tech Community College	Smart Grid Workforce Training (Topic B)	Crossroads Smart Grid Training Program - Develop trained operators, technicians, engineers, and research scientists necessary to achieve Indiana's renewable power and energy objectives. 1,500 student-seats for new smart grid training will be offered.	Indiana	\$4,699,353	\$7,970,762
<b>IN Total</b>						<b>\$4,699,353</b>	<b>\$7,970,762</b>

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KS	Pratt	Pratt Community College	Developing and Enhancing Workforce Training Programs (Topic A)	Kansas Community College Energy Consortium: Smart Grid Curriculum Development - Enhance electric power and information network training programs with smart grid technology. Project develops online and hybrid smart grid training modules, provides career pathways toward industry certifications and degrees (e.g. "stackable" credentials in clean energy), and enhances training with simulation software.	Kansas	\$749,375	\$861,275
KS Total						\$749,375	\$861,275
KY	Lexington	University of Kentucky Research Foundation	Strategic Training and Education in Power Systems (STEPS - Topic A)	The Power and Energy Education Institute - Provide highly qualified graduates certified in power engineering at the graduate, undergraduate, and professional (continuing education) level by bringing together faculty from traditional engineering departments as well as centers for alternative energy and sustainable manufacturing. In addition to the classroom coursework, students will take a "Power and Energy Experience" course where students will perform field studies of regional power and energy sites. The program will give students the opportunity to graduate with a cross disciplinary certificate in power and energy engineering AND a B.S. or M.S. in Electrical, Mechanical, Chemical, Materials, Mining or other engineering major.	Kentucky	\$2,497,963	\$3,012,993
KY Total						\$2,497,963	\$3,012,993
MA	Waltham	National Grid USA Service Company, Inc.	Smart Grid Workforce Training (Topic B)	National Grid Northeast Regional Smart Grid Training Program - Develop and deliver materials needed to train the National Grid utility workforce in smart grid technology deployment and operations and broadly disseminate best practices and lessons learned to community colleges, universities, and energy industry associations. Advanced training in smart grid technologies will be provided to between 2,600 and 4,900 utility workers.	Massachusetts New York	\$2,185,495	\$4,370,990
MA Total						\$2,185,495	\$4,370,990
MD	Rockville	Princeton Energy Resources International, LLC (PERI)	Developing and Enhancing Workforce Training Programs (Topic A)	Mid-Atlantic Renewable Energy Education Program for Rural Electric Power Sector - Create an accredited Renewable Energy Certificate Program that will support the development of a skilled workforce in the rural cooperative electric power industry to accelerate the transition to sustainable energy sources.	Maryland	\$750,000	\$996,160
MD Total						\$750,000	\$996,160
MI	Lansing	Michigan Department of Energy, Labor & Economic Growth	Smart Grid Workforce Training (Topic B)	Michigan Electric Power Workforce Training Strategy - Create career pathways for Michigan workers in skilled trades and other in-demand jobs in the electric power workforce sector. This project serves 588 individuals through training for employment in the electric power sector.	Michigan	\$4,388,025	\$21,178,965
	Marquette	Northern Michigan University	Developing and Enhancing Workforce Training Programs (Topic A)	Northern Michigan University's Electrical Power Technician Workforce Training Program - Further develop and enhance newly established Electric Power Technician workforce training program, providing quality training for entry level technicians in the electrical power industry.	Michigan	\$673,462	\$785,955
MI Total						\$5,061,487	\$21,964,920

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MN	Minneapolis	Regents of the University of Minnesota	Strategic Training and Education in Power Systems (STEPS - Topic A)	A Nationwide Consortium of Universities to Revitalize Electric Power Engineering Education by State-of-the-Art Laboratories - Facilitate the implementation of laboratories at the university level to create a new educational framework in power engineering which will transform undergraduate and graduate education and research in the areas of renewable energy (such as wind and solar, storage, and energy conservation) and meet the challenges of making the grid cleaner, smarter, and more reliable. The project complements other Federal grants at the University of Minnesota (including from NSF, NASA, and ONR), and includes a community of over 80 collaborating universities, which will further disseminate the laboratory curriculum to other universities and technical and community colleges in their region.	Minnesota Alabama, Arizona California, Colorado Connecticut, Florida Hawaii, Idaho Indiana, Iowa Kentucky, Louisiana Maine, Michigan Nebraska, Nevada New York, North Dakota Ohio, Oregon Pennsylvania, Tennessee Texas, Utah Vermont, Virginia Washington, West	\$2,500,000	\$4,175,423
	Saint Paul	Saint Paul College	Developing and Enhancing Workforce Training Programs (Topic A)	Saint Paul College Energy Process and Smart Grid Technology Program Re-Development - Re-design the current Energy Process curriculum and programming into an Energy Process and Smart Grid Technology program. The program will be a key vehicle for current energy industry employees who have been displaced to re-tool and refine their current skill set, draw upon their existing work experience and rapidly become trained to work in new sectors and with emerging energy technologies. Over the three year project period, it is expected that 90-360 students will successfully complete a certificate, diploma, or degree in Energy Process and Smart Grid Technology.	Minnesota	\$750,000	\$2,208,699
<b>MN Total</b>						<b>\$3,250,000</b>	<b>\$6,384,122</b>
MO	St. Louis	Ameren Services Company	Smart Grid Workforce Training (Topic B)	Smarter Workforce Training Program - Ensure a highly skilled and trained workforce to install, operate, maintain, and utilize "smart" devices and software that support Ameren's smart grid efforts. The project supports training in three smart grid areas: Advanced Data Management System; new Graphic Information System (GIS) functionality (mapping system); and other smart devices for the electric distribution system. It is expected that over 4,000 individuals will benefit from training.	Missouri Illinois	\$3,520,105	\$9,200,000
		St. Louis Community College	Smart Grid Workforce Training (Topic B)	Lineman Pre-Employment Training - Implement an innovative pre-employment program in collaboration with Ameren, to address the necessary critical skills and technical expertise needed in the energy industry. 300 dislocated and unemployed/underemployed residents of the Greater St. Louis region will be recruited and assessed on their interest and abilities to enter the pre-employment line worker training program.	Missouri	\$82,026	\$164,052
<b>MO Total</b>						<b>\$3,602,131</b>	<b>\$9,364,052</b>

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MS	Gulfport	Mississippi Power Company	Smart Grid Workforce Training (Topic B)	The Power of Smart - Develop a new instructional program that incorporates state-of-the-art smart grid technology, encompassing the various aspects of delivering electricity from the power plant to the consumer, including elements such as transmission line automation, distribution automation, substation monitoring devices, and Advanced Metering Infrastructure (AMI). The project provides classroom and hands-on training for an assortment of power delivery personnel including line workers, electricians, technicians, engineers, planners, and operators.	Mississippi	\$2,611,049	\$5,233,084
	Perkinston	Mississippi Gulf Coast Community College	Developing and Enhancing Workforce Training Programs (Topic A)	Workforce Development for the Electric Power Sector to Advance Clean Energy - Equip a job-ready Gulf region workforce to implement and maintain a clean-energy and "intelligent" electric system. Over 360 students and incumbent workers, 100 postsecondary and STEM secondary educators, and 400 secondary students will engage in training, education, and career awareness activities.	Mississippi	\$729,070	\$1,384,469
MS Total						\$3,340,119	\$6,617,553
NC	Charlotte	Duke Energy Business Services LLC	Smart Grid Workforce Training (Topic B)	Duke Energy Smart Grid Workforce Training - Train the smart grid workforce that will plan, design, build, operate, and sustain Duke Energy's transformed Midwest electric system and related "beyond the meter" products and services which will increase the consumer's role in managing energy use and reducing carbon emissions. Over 3,100 employees in the states of Indiana, Ohio, and Kentucky will receive smart grid training.	North Carolina Indiana Kentucky Ohio	\$3,490,041	\$6,980,082
	Raleigh	North Carolina State University	Strategic Training and Education in Power Systems (STEPS - Topic A)	Master of Engineering in Electric Power Systems: Workforce Training for Smart Grid - Develop and implement an accelerated (intensive ten month), professional Master of Engineering degree in Electric Power Systems to give students a thorough understanding of the tools, methods, and practices of electric power engineering. The program encompasses a broad treatment of the engineering, management, and professional skills needed in industry and includes both core power engineering topics as well as new cross-disciplinary technical topics relevant to the clean-energy Smart Grid. The degree is suitable for new graduates as well as experienced professionals who want to receive the necessary retraining to change careers.	North Carolina	\$2,492,266	\$3,403,458
NC Total						\$5,982,307	\$10,383,540
ND	Bismarck	Bismarck State College (BSC)	Developing and Enhancing Workforce Training Programs (Topic A)	Smart Grid Simulation Laboratory (GridLab) - Implement a comprehensive, flexible, and easily accessible smart grid laboratory, for both on campus and online training delivery. GridLab will not only be an unique platform to demonstrate smart technology, but also a complete microcosmic Smart Grid which includes home and industrial loads, distributed and renewable generation, and advanced communication and control systems.	North Dakota	\$728,060	\$808,958
ND Total						\$728,060	\$808,958

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NY	Albany	Workforce Development Institute, Inc.	Smart Grid Workforce Training (Topic B)	Development of a Smart Grid Lineman Workforce in NYS - Recruit, train, and employ line workers in New York to ensure that adequate numbers of line workers are trained and available with upgraded skills in clean-energy smart grid technologies to install, maintain, and support the electric power sector. The project will result in the training of over 800 current line workers (journeymen, current apprentices, groundhands, splicers, and equipment operators) as well as up to 450 new apprenticeship positions.	New York	\$1,588,436	\$3,116,872
	New York	Consolidated Edison Company of New York, Inc.	Smart Grid Workforce Training (Topic B)	Control Center Training for Smart Grid Operation - Utilize the Company's state-of-the-art training facility to employ training modules, simulations, and qualification for advanced operations at each of the 4 control centers within the service territory: Brooklyn/Queens, Manhattan, Westchester/Bronx, Staten Island. The project focuses on personnel needed to deploy, operate, troubleshoot, and maintain various types of equipment that will be necessary as the use of smart grid technologies increase.	New York New Jersey	\$236,675	\$473,350
	Schenectady	General Electric Company	Smart Grid Workforce Training (Topic B)	Training for the Development of a Smart Grid Center of Excellence (SGCOE) - Develop the expertise needed to design and develop smart grid technology. The project supports the training of approximately 260 Engineers and Software Developers.	New York	\$649,903	\$1,299,805
	Syracuse	Syracuse University	Strategic Training and Education in Power Systems (STEPS - Topic A)	Multi-Institutional Curriculum Development and Delivery to Create the New Smart Grid Workforce - Create a multi-institutional, academic-industry partnership for curriculum delivery, leveraging research strengths, facilities, and assets from across New York State. The project will develop smart grid curricula across the full spectrum of higher educational certificate and degree programs and will allow training and retraining of displaced manufacturing and technology workforce as well as the incumbent utility workforce to quickly advance Smart Grid implementation.	New York	\$2,500,000	\$3,159,080
<b>NY Total</b>						<b>\$4,975,014</b>	<b>\$8,049,107</b>

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OH	Cleveland	Cuyahoga Community College District	Developing and Enhancing Workforce Training Programs (Topic A)	Increasing the Competitiveness of the Electric Power Sector through Responsive Workforce Training Strategies - Develop (in collaboration with Cleveland Public Power) curriculum to meet the electric sector workforce needs, specifically to build knowledge of Smart Grid, address skill shortages, and fill workforce vacancies. The project will develop and offer classroom, lab, work-site, and online instruction methods to train about 200 individuals, including existing workers to maintain jobs and future workers for new jobs.	Ohio	\$749,204	\$841,994
	Columbus	The Ohio State University	Strategic Training and Education in Power Systems (STEPS - Topic A)	I-SMART: Integrated Curriculum for Smart Power Engineering - Develop an interdisciplinary curriculum for electric power engineers (I-SMART curriculum) that includes a hardware-in-the-loop based Virtual Smart Grid Test Platform, which will simulate the functions of a real Smart Grid in an integrative environment, and a comprehensive distance learning system. The project will also train high school teachers through hands-on summer workshops and provide materials for the classroom.	Ohio	\$2,499,939	\$3,748,546
<b>OH Total</b>						<b>\$3,249,143</b>	<b>\$4,590,540</b>
OR	Klamath Falls	Oregon Institute of Technology	Strategic Training and Education in Power Systems (STEPS - Topic A)	National Leadership in Power Engineering - Strengthen the Bachelor of Science of Renewable Energy Engineering program (and create a Master's program) that builds on a strong fundamental engineering foundation by including history, economics, and policies related to the power industry as well as hands-on education opportunities such as power system modeling and analysis, distributed power systems, power conditioning, and utility-focused energy storage.	Oregon	\$2,491,100	\$2,865,038
<b>OR Total</b>						<b>\$2,491,100</b>	<b>\$2,865,038</b>
PA	Bethlehem	Lehigh University	Developing and Enhancing Workforce Training Programs (Topic A)	Keystone Smart Grid Fellowship Program - Establish a network of graduate Smart Grid "Fellows" who will educate the skilled workforce charged with building the intelligent grid system. The project will "train the trainers" by recruiting professors currently teaching at community colleges, high school teachers from the Mid-Atlantic and western Great Lakes regions, and engineers in the workforce who are interested in modifying their career path to one focused on being future trainers of electric power sector workers.	Pennsylvania	\$748,058	\$879,674
	University Park	The Pennsylvania State University	Smart Grid Workforce Training (Topic B)	The GridSTAR Center (Smart Grid Training Application Resource Center) - Provide system-based continuing education and train-the-trainer programs in advanced power systems design, energy economics, cyber security, distributed energy generation, and building-vehicle-grid systems. System experts will work closely with manufacturing and technology partners to deliver high quality education and training programs on smart grid topics.	Pennsylvania	\$5,000,000	\$10,000,000
<b>PA Total</b>						<b>\$5,748,058</b>	<b>\$10,879,674</b>



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RI	Warwick	The Community College of Rhode Island	Developing and Enhancing Workforce Training Programs (Topic A)	Rhode Island Electrical Power Technician Program - Develop and implement a new Energy Utility Technology (EUT) Certificate that will be articulated with a redesigned Engineering Systems Technology (EST) Associate Degree to provide a qualified entry level workforce in the greening of the electrical power sector.	Rhode Island Massachusetts	\$745,841	\$910,841
<b>RI Total</b>						<b>\$745,841</b>	<b>\$910,841</b>
SC	Clemson	Clemson University	Developing and Enhancing Workforce Training Programs (Topic A)	Power Industry Essentials Certificate Program - Train the power engineering sector on the fundamentals of power systems and the advanced applications on power systems operation, control and protection. The project will develop three certificate programs (Power Systems Engineering; Renewable Energy; and Advanced Power Systems) and a Masters of Engineering program.	South Carolina	\$744,374	\$827,083
<b>SC Total</b>						<b>\$744,374</b>	<b>\$827,083</b>
TN	Chattanooga	University of Tennessee at Chattanooga	Strategic Training and Education in Power Systems (STEPS - Topic A)	Workforce Training for the Electric Power Sector - Enhance undergraduate, graduate, and professional education on subjects critical to the successful implementation of the Smart Grid, supplementing traditional electrical engineering training with topics such as Smart Grid, Cyber Security, Energy Efficiency and Clean Energy, Power System Protection, Power Systems and Power Systems Management. It will also address the needs of students and teachers by developing programs that can be taught in the high schools on power systems, alternative energy, energy conservation, and the Smart Grid, with the objective of developing well-trained technicians and pre-engineering students that are knowledgeable in power systems and clean-energy smart grid practices. The program will deliver the courses, short courses, and seminars in-class and online.	Tennessee	\$2,394,802	\$2,663,859
<b>TN Total</b>						<b>\$2,394,802</b>	<b>\$2,663,859</b>
TX	Austin	Austin Community College District	Developing and Enhancing Workforce Training Programs (Topic A)	Preparing Occupations for Lineman Education (The POLE Program) - Develop a Utility Line worker Certificate and Associate Degree curriculum to train students to install, maintain and repair electric power lines and qualify them to work as utility line workers - an occupation key to enabling smart grid functionality.	Texas	\$87,210	\$132,169
	Dallas	Oncor Electric Delivery Company LLC	Smart Grid Workforce Training (Topic B)	Grid Reliability through Engineer Advancement and Training (GREAT) - Prepare Oncor's system planners and system protection engineers to successfully achieve a Smart Grid that effectively incorporates the growing generation of renewable energy in Texas. This project supports Oncor's workforce development efforts, needed to construct, operate, and maintain over 850 miles of new competitive renewable energy zone (CREZ) lines, four new wind collection stations, and four new 345 kV switching stations throughout Texas.	Texas Colorado Minnesota New York	\$188,748	\$431,937

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	Houston	University of Houston College of Technology	Strategic Training and Education in Power Systems (STEPS - Topic A)	Smart Grid Energy Training Coalition - Development of Training - Develop a program that provides a coherent career progression from entry-level hands-on training, through the development of basic and specialized skills, to the attainment of advanced skills and degrees necessary for higher level design and management functions. The program will assure that student credits are transferable by executing articulation agreements across the training partners and integrating students, job seekers, academic institutions, and industry participants through a community/social networking system.	Texas	\$2,499,904	\$3,832,904
<b>TX Total</b>						<b>\$2,775,862</b>	<b>\$4,397,010</b>
UT	Salt Lake City	Salt Lake Community College	Developing and Enhancing Workforce Training Programs (Topic A)	Workforce Skills Training for Job Creation & Career Advancement in Utah's Electric Power Sector - Enhance training in line worker technology including metering and substation. Project addresses the need for new training delivery models, meeting the need for statewide and regional entry-level and career enhancement training.	Utah	\$614,240	\$921,755
		Salt Lake Community College	Smart Grid Workforce Training (Topic B)	Utah Smart Grid Workforce Training -Develop a state-wide, smart grid sector workforce plan, serving the current and emerging infrastructure, and prepare Utah's workforce to participate in the national Smart Grid. 670 participants will be enrolled in training, with an estimated 110 dislocated workers placed in employment.	Utah	\$1,523,005	\$2,899,197
<b>UT Total</b>						<b>\$2,137,245</b>	<b>\$3,820,952</b>
VA	Arlington	National Electrical Manufacturers Association	Developing and Enhancing Workforce Training Programs (Topic A)	Vids for Grids: New Media for the New Energy Workforce - Produce a series of short educational videos on power grid operations; and smart grid equipment demonstration, assembly, installation, and use. In collaboration with Northern Virginia Community College and George Mason University, the videos will be integrated into basic electrical engineering curriculum and made widely available to colleges, training centers, and the general public. The project is expected to increase student understanding of electrical engineering concepts, increase student interest in pursuing power systems careers, and demonstrate a best practice in integrating new media into engineering core curricula.	Virginia Connecticut New Jersey North Carolina Pennsylvania	\$247,360	\$317,800
<b>VA Total</b>						<b>\$247,360</b>	<b>\$317,800</b>

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WA	Centralia	Centralia College	Smart Grid Workforce Training (Topic B)	Pacific Northwest Center of Excellence for Clean Energy: Smart Grid Workforce Development - Develop an online smart grid training and information portal for utilities, businesses, and consumers. The project will deliver smart grid training for utility workers in a four state region (Washington, Idaho, Montana, and Oregon).	Washington Idaho Montana Oregon Utah	\$4,998,859	\$11,831,977
	Issaquah	Incremental Systems Corporation	Smart Grid Workforce Training (Topic B)	Massive Real-time Simulations for Training Smart Grid Operators - Update real-time simulations with specific and realistic models of the nine NERC regions so that system operators, engineers, and students can experience and learn to prevent major power system events. The simulations will facilitate capturing the implicit knowledge that is embedded in the experience and intuition of senior operators and transferring it to a broad range of trainees. As a demonstration, the simulations will be used to train and certify 120 military veterans as NERC system operators and place them in energy industry jobs.	Washington	\$3,600,000	\$8,287,500
	Pullman	Washington State University	Strategic Training and Education in Power Systems (STEPS - Topic A)	Training Program in Clean Energy Smart Grid Engineering - Develop a comprehensive set of undergraduate and graduate courses for degrees and certificates in clean energy and smart grid engineering. The program will also prototype these for asynchronous computerized delivery to enable individuals with various backgrounds to acquire the next level of engineering skills. For example, pathways will be available for technicians to move into engineering jobs in the utility industry or for practicing engineers to move into the R&D jobs needed by vendors to develop these new technologies.	Washington	\$2,500,000	\$4,341,828
<b>WA Total</b>						<b>\$11,098,859</b>	<b>\$24,461,305</b>
WI	Green Bay	Northeast Wisconsin Technical College	Developing and Enhancing Workforce Training Programs (Topic A)	NEW Generation Power Skills Training Development Initiative - Develop and enhance regional training programs for the emerging smart grid workforce that incorporate industry identified "core skills" and utilize multiple delivery methods to accommodate the diverse needs of the learners (e.g., incumbent workers, unemployed, traditional students). The project addresses the emerging demand for middle-skilled smart grid workers in northeast Wisconsin.	Wisconsin	\$525,673	\$578,585
<b>WI Total</b>						<b>\$525,673</b>	<b>\$578,585</b>
<b>Grand Total</b>						<b>\$99,270,000</b>	<b>\$194,159,002</b>

\*Final award amounts subject to negotiation