

Program Planning Template

2014 – 2017 Programs

GY 4 – 6; EY 7 - 9

Program Applicable for: Ameren _____ ComEd _____ DCEO X
Nicor _____ People's Gas/North Shore Gas _____

Program Name	Smart Energy Design Assistance Program (SEDAC)---(2014 - 2017)
Objective	<p>Achieve long-term and low-cost energy efficiency improvements in public and commercial sector buildings through design assistance and energy efficiency analysis and implementation.</p> <p>Assist building owners and operators in identifying energy efficiency opportunities and provide analysis for catalyzing participation in DCEO's and the utilities' Prescriptive and Custom incentive programs.</p> <p>Develop a robust energy efficiency service industry within Illinois that will help enable DCEO and the utilities to meet EEPS goals.</p>
Target Market	Public sector entities, non-profits, and small to medium commercial businesses that are investing in new facilities or renovating existing facilities.
Program Duration	06/01/14 through 5/31/17 (three-year EEPS plan period)
Program Description	<p>The Design Assistance (DA) program will target public sector buildings including: K-12 schools, community colleges, universities, and state and local government buildings along with small and medium-size businesses.</p> <p>To date, SEDAC has provided detailed DA services to over 1,200 clients. This represents assessments of over 125.3 million sf of buildings in Illinois. The program has provided information and support to over 3,000 clients. The program also provides implementation assistance, in the form of continuing efforts to guide clients to adopt design assistance recommendations. SEDAC maintains contact with previous clients to increase implementation of energy cost reduction strategies already identified, and incorporate the added benefits of the incentives into the cost analyses conducted for new clients. SEDAC also markets EEPS incentives through Public Sector Energy Workshops and its monthly newsletter and provides marketing and technical information through case studies, market fact sheets, technical notes, and short videos.</p> <p>The program provides clients with design assistance reports that analyze energy cost reduction measures (ECRMs) in detail. The reports describe ECRMs individually and in bundles in order to encourage clients to take advantage of the synergies that exist only when the whole building is considered. Cost-effective strategy implementation is encouraged. 'Cost effective' is defined as bundles of ECRMs with an internal rate of return (of the needed investment) greater than the current discount rate <i>and</i> the net present value of the investment greater than zero. The estimated savings and the additional costs of implementing all analyzed ECRMs are evaluated in a life cycle cost analysis. The financial analysis is presented in a clear and simple fashion for ease of understanding.</p> <p>Finally SEDAC also offers continuing education/design courses to architects and engineers and informal energy-related trainings for businesses, energy service providers and other entities. Trainings provide outreach and marketing opportunities for SEDAC and DCEO and help create awareness of technologies and programs.</p>
Eligible Customers	Public sector entities including (but not limited to): school districts, community colleges, city and county government, state and federal government facilities; non- profits and small to medium private sector businesses. Customers must be served by ComEd or Ameren Illinois electrical energy distribution system or by Nicor Gas, Ameren Illinois Gas, Peoples Gas or North Shore Gas utilities.

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Eligible Measures	<p>The DA program provides four levels of assistance to clients:</p> <p>Level 1: Initial Consultations. This includes a variety of interactions with building owners, operators, design professionals, and other stakeholders. These initial consultations include one-on-one meetings, presentations, telephone calls and other correspondence. The purpose is to inform individuals and organizations about the program opportunities, answer program questions, offer technical energy assistance, and assess the potential value of providing additional program services.</p> <p>Level 2: Energy Audits. Audits include a site visit or review of any existing plans for scheduled construction or renovation (in cases where the building is still in the pre-construction phase, SEDAC reviews the engineering plans and recommends approaches to enhance energy efficiency), or in the case of existing facilities, a site visit and consultation. Level 2 results in suggestions for project engineers, architects and other stakeholders for how to develop and incorporate innovative and efficient design techniques and elements.</p> <p>SEDAC analyzes the building usage requirements and general building characteristics, and ranks energy cost reduction measures (ECRMs) relatively. Once the energy audit is completed and the potential for energy savings has been determined, the benefit of a complete design assistance process is evaluated and recommendations are provided to the SEDAC client.</p> <p>Level 3: Design Assistance involves an in-depth building analysis that includes four steps:</p> <ol style="list-style-type: none"> 1. Energy base lining and simulation modeling, differential energy calculations or comparable spreadsheet calculations of the facility 2. Evaluation of individual and resultant energy cost reduction measures (ECRMs) 3. A life cycle cost analysis that identifies specific energy cost reduction measures and potential savings 4. A final feasibility report <p>Level 4: Implementation Support is provided to assist the client in the implementation of the recommended energy efficient technologies. These services include guidance on: financial options, bids, specifications, contractor relationships and other services as required for implementation of energy efficiency improvements.</p> <p>The Department of Commerce and Economic Opportunity reserves the right to revise the levels of assistance as needed in accordance with current market conditions, technology development, EM&V results, and program implementation experience.</p>
Implementation Strategy	<p>The DA program will utilize staff from the University of Illinois at Urbana-Champaign, private contractors, the Energy Resources Center (ERC) at the University of Illinois Chicago and other energy professionals that make up the Smart Energy Design Assistance Center (SEDAC). Current targeted market segments include but are not limited to: office buildings, high-rise residential, retail, restaurants, convenience stores, assisted living facilities, and lodging and the entire public sector, including schools, community colleges, universities, municipal buildings, federal government facilities and water treatment plants. New clients are brought in through referrals, DCEO business programs, Web site and through direct contact from SEDAC outreach. SEDAC outreach activities include formal and informal trainings, workshops, webinars, and conference participation.</p>

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Marketing Strategy	<p>The program has already developed an extensive database of interested parties. Each year between 10 and 12 workshops are conducted throughout the state to inform potential customers about SEDAC and the DCEO, Ameren Illinois, and ComEd, Nicor Gas, Ameren Illinois Gas, and Peoples and North Shore Gas, EEPs programs. A monthly electronic newsletter is distributed to over 7,500 recipients. A program Web site has been established at www.sedac.org which provides links to DCEO, Ameren Illinois, ComEd, and natural gas utility programs and implementers. Additionally, the program is continually expanding the networks of energy service providers and design assistance experts. These databases and Website are continually updated. In PY5 SEDAC established an Implementation Coordinator position to facilitate SEDAC clients use of the DCEO Illinois Energy Now, Ameren Illinois ActOnEnergy, and ComEd Smart Ideas programs. SEDAC regularly coordinates its activities with the private sector vendors of these programs (KEMA, SAIC, GDS Associates, Franklin Energy, etc.)</p>																						
Incentive Levels	<p>DA assistance is offered as a free service at all levels of participation, with a goal to assist building owners and operators in identifying energy efficiency opportunities and provide analysis for catalyzing participation in available incentive programs.</p> <p>DA assistance will refer clients to implementation incentive opportunities offered by DCEO, Ameren Illinois, ComEd, Nicor Gas, Peoples Gas, and North Shore Gas utilities. SEDAC will also provide a comprehensive Web Information Portal that describes programs and activities and all other additional and potential funding opportunities (state, federal, private, etc.).</p> <p>DCEO reserves the right to charge for services for larger customers over a certain size or for particular services at a future date, depending on current market conditions, technology development, EM&V results, and program implementation experience.</p> <p>For this service incentive program, direct benefits to each client are considered the incentive value. Indirect costs (including reporting, tracking, analysis, long-term follow up, marketing, etc.) are considered costs related to incentive implementation.</p>																						
Milestones	<ul style="list-style-type: none"> • February 2014: Commission approval • March-May 2014: Final program design and protocol development • June 2014: Continuation of SEDAC Program 																						
Estimated Participation	<table border="1" data-bbox="381 1312 1377 1690"> <thead> <tr> <th data-bbox="381 1312 683 1409">Measure</th> <th data-bbox="683 1312 889 1409">Year 1 Participation</th> <th data-bbox="889 1312 1096 1409">Year 2 Participation</th> <th data-bbox="1096 1312 1377 1409">Year 3 Participation</th> </tr> </thead> <tbody> <tr> <td data-bbox="381 1409 683 1486">Level 1: Initial consultations</td> <td data-bbox="683 1409 889 1486">400</td> <td data-bbox="889 1409 1096 1486">400</td> <td data-bbox="1096 1409 1377 1486">400</td> </tr> <tr> <td data-bbox="381 1486 683 1535">Level 2: Energy Audits</td> <td data-bbox="683 1486 889 1535">175</td> <td data-bbox="889 1486 1096 1535">175</td> <td data-bbox="1096 1486 1377 1535">175</td> </tr> <tr> <td data-bbox="381 1535 683 1612">Level 3: Design Assistance</td> <td data-bbox="683 1535 889 1612">110</td> <td data-bbox="889 1535 1096 1612">110</td> <td data-bbox="1096 1535 1377 1612">110</td> </tr> <tr> <td data-bbox="381 1612 683 1690">Level 4: Implementation Support</td> <td data-bbox="683 1612 889 1690">85</td> <td data-bbox="889 1612 1096 1690">85</td> <td data-bbox="1096 1612 1377 1690">85</td> </tr> </tbody> </table>			Measure	Year 1 Participation	Year 2 Participation	Year 3 Participation	Level 1: Initial consultations	400	400	400	Level 2: Energy Audits	175	175	175	Level 3: Design Assistance	110	110	110	Level 4: Implementation Support	85	85	85
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Program Name	Smart Energy Design Assistance Program (SEDAC)---(2014 - 2017)				
Estimated Budget	Budget Information Total Program (Gas + Electric)				
	Budget Category	Year 1	Year 2	Year 3	Total
	Incentive	\$2,812,500	\$2,812,500	\$2,812,500	\$8,437,500
	Implementation Costs	\$937,500	\$937,500	\$937,500	\$2,812,500
	Total	\$3,750,000	\$3,750,000	\$3,750,000	\$11,250,000
	Electric Budget Information Total Program				
	Budget Category	Year 1	Year 2	Year 3	Total
	Incentive	\$2,010,938	\$2,010,938	\$2,010,938	\$6,032,813
	Implementation Costs	\$670,313	\$670,313	\$670,313	\$2,010,938
	Total	\$2,681,250	\$2,681,250	\$2,681,250	\$8,043,750
	ComEd (73%)				
	Budget Category	Year 1	Year 2	Year 3	Total
	Incentive	\$1,467,984	\$1,467,984	\$1,467,984	\$4,403,953
	Implementation Costs	\$489,328	\$489,328	\$489,328	\$1,467,984
	Total	\$1,957,313	\$1,957,313	\$1,957,313	\$5,871,938
	Ameren (27%)				
	Budget Category	Year 1	Year 2	Year 3	Total
	Incentive	\$542,953	\$542,953	\$542,953	\$1,628,859
	Implementation Costs	\$180,984	\$180,984	\$180,984	\$542,953
	Total	\$723,938	\$723,938	\$723,938	\$2,171,813
	Gas Budget Information Total Program				
	Budget Category	Year 1	Year 2	Year 3	Total
	Incentive	\$801,563	\$801,563	\$801,563	\$2,404,688
Implementation Costs	\$267,188	\$267,188	\$267,188	\$801,563	
Total	\$1,068,750	\$1,068,750	\$1,068,750	\$3,206,250	
Ameren (17.4%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Incentive	\$139,472	\$139,472	\$139,472	\$418,416	
Implementation Costs	\$46,491	\$46,491	\$46,491	\$139,472	
Total	\$185,963	\$185,963	\$185,963	\$557,888	
NICOR (56.8%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Incentive	\$455,288	\$455,288	\$455,288	\$1,365,863	
Implementation Costs	\$151,763	\$151,763	\$151,763	\$455,288	
Total	\$607,050	\$607,050	\$607,050	\$1,821,150	
People's Gas (21.8%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Incentive	\$174,741	\$174,741	\$174,741	\$524,222	
Implementation Costs	\$58,247	\$58,247	\$58,247	\$174,741	
Total	\$232,988	\$232,988	\$232,988	\$698,963	
North Shore (4.0%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Incentive	\$32,063	\$32,063	\$32,063	\$96,188	
Implementation Costs	\$10,688	\$10,688	\$10,688	\$32,063	
Total	\$42,750	\$42,750	\$42,750	\$128,250	

Program Name	Smart Energy Design Assistance Program (SEDAC)---(2014 - 2017)								
Savings Targets		Year 1		Year 2		Year 3		Total	
		MWh	MW	MWh	MW	MWh	MW	MWh	MW
	Ameren (27%)	280	0.05	280	0.05	280	0.05	840	0.15
	ComEd (73%)	720	0.11	720	0.11	720	0.11	2,160	0.33
	Total Electric Savings	1,000	0.16	1,000	0.16	1,000	0.16	3,000	0.48
		Year 1		Year 2		Year 3		Total	
		Therms		Therms		Therms		Therms	
	Ameren (17.4%)	26,100		26,100		26,100		78,300	
	Nicor (56.8%)	85,200		85,200		85,200		255,600	
	Peoples (21.8%)	32,700		32,700		32,700		98,100	
North Shore (4%)	6,000		6,000		6,000		18,000		
Total Gas Savings	150,000		150,000		150,000		450,000		
Other Program Metrics	The principal program metrics are the annual electrical and natural gas energy savings targets. Secondary metrics include Level 1 contacts, level 2 and 3 DA studies conducted and total number of projects proceeding with implementation of DA recommendations (Level 4).								