Estimated Budget

Estimated Budget				
Budget Category	2008	2009	2010	Total
Incentives	$600,000	$1,000,000	$1,700,000	$3,300,000
Admin & Implementation	$19,355	$24,000	$30,667	$74,022
Marketing	$0	$0	$0	$0
Total	$619,355	$1,024,000	$1,730,667	$3,374,022

Estimated Budget – ComEd				
Budget Category	2008	2009	2010	Total
Incentives	$444,325	$737,469	$1,255,698	$2,437,492
Admin & Implementation	$14,333	$17,699	$22,652	$54,684
Marketing	$0	$0	$0	$0
Total	$458,658	$755,168	$1,278,350	$2,492,177

Estimated Budget – Ameren				
Budget Category	2008	2009	2010	Total
Incentives	$155,675	$262,531	$444,302	$862,508
Admin & Implementation	$5,022	$6,301	$8,015	$19,337
Marketing	$0	$0	$0	$0
Total	$160,697	$268,832	$452,316	$881,845

This budget will be targeted to affordable housing for households with incomes at or below 150% of the poverty level, to fulfill the EEPS legislative requirement for a portfolio of electric efficiency programs targeted to such households. Other funding sources – such as the Energy Efficiency Trust Fund, settlements with natural gas utilities, and the Illinois Clean Energy Community Foundation – will be used to fund affordable housing units occupied by low income households with incomes exceeding 150% of the poverty level, affordable housing units located outside the ComEd and Ameren electric service territories, and energy efficiency measures that reduce natural gas consumption in these housing units.

Savings Targets

Estimated Savings				
Year	2008	2009	2010	Total
MWH	0	278	463	740
MW	0.0	0.2	0.3	0.4

Estimated Savings - ComEd				
Year	2008	2009	2010	Total
MWH	0	205	342	547
MW	0.0	0.1	0.2	0.3

Estimated Savings - Ameren				
Year	2008	2009	2010	Total
MWH	0	73	121	194
MW	0.0	0.0	0.1	0.1

It is assumed that the electricity savings will occur in the year following the year in which the projects are funded to account for the time it takes developers to complete construction and the renters or homeowners to occupy the housing.

Other Program Metrics

Number of single-family housing units rehabbed.

DC20 1.10

PROGRAM NAME	Low Income Energy Efficiency Direct Install
Objective	Achieve electricity savings in low-income gas-fired homes Achieve electricity savings in low-income electrically-heated households, when current dedicated funding for that purpose expires
Target Market	Low income renters and owners with incomes at or below 150% of the poverty level
Program Duration	Builds on existing and potentially new programs that are managed by entities other than DCEO that would continue throughout and beyond the period covered by the three-year EEPS plan.
Program Description	The Program builds on existing and new programs – administered by entities other than DCEO including but not limited to: the Office of Energy Assistance at Department of Healthcare and Family Services, Center for Neighborhood Technology, Illinois Housing Development Authority, municipalities, and others – that improve energy efficiency in existing low income households. These programs currently focus primarily on natural gas savings. Additional electric efficiency measures will be included to further reduce the energy bills of eligible households. When existing energy efficiency funding under recent legislation for electrically-heated low-income households expires, the Program eligibility may be expanded to include those households.

Eligible Measures

Measure	kWh/unit	kW/unit
1. Energy Star Refrigerator[1]	***554***	***0.062***
2. CFL installation[2]	***594***	***0.068***
3. Energy Star rated bathroom exhaust fan[3]	***89***	***0.010***
4. SEER 16 central air conditioner w/ programmable thermostat[4]	***1643***	***2.739***
5. Energy Star rated room air conditioner [5]	***283***	***0.472***
6. 90% AFUE furnace with efficient air handler[6]	***400***	***0.046***

Refrigerator and air conditioner savings are based on a combined effect of savings from 1) the replacement of old inefficient equipment and 2) the installation of new efficient equipment.

[1] – *ENERGY STAR savings calculator; existing refrigerator at 1,000 kWh/year & ENERGY STAR refrigerator at 450 kWh/year*

[2] – *ENERGY STAR savings calculator; 12 CFLs/home at 3 hours/day*

[3] – *Typical bathroom exhaust fan rated at 60 CFM and 150 watts; ENERGY STAR rated fan at 90 CFM and 28 watts; assume 2 hours per day use*

[4] – *ENERGY STAR savings calculator; assumes existing SEER of 9.0 and a 1-ton reduction in cooling load; assumes house has been weatherized by OEA; installed when cooling is present*

[5] – *ENERGY STAR savings calculator based on a conventional AC unit with an EER of 7.7 and an ENERGY STAR unit with an EER of 11.5.*

[6] - *Furnaces must be designated as an electrically efficient furnace by the Gas Appliance Manufacturers Association (GAMA). OEA would provide the base cost of the furnace.*

The list of eligible measures may be modified as needed in accordance with current market development, technology development, EM&V results and program implementation experience.

Implementation Strategy	DCEO will partner with other state agencies and organizations to improve the energy efficiency of existing low income households. The partners will continue to administer the programs with additional funding from DCEO. The partners or their contractors will identify eligible households and directly install energy efficiency measures.
Marketing Strategy	Program will be marketed through utility bill inserts and existing low-income advocacy organizations and other partners.
Incentive Strategy	

Measure	Incentive per Unit
1. Energy Star Refrigerator	$500
2. CFL installation	$45
3. Energy Star rated bathroom exhaust fan	$200
4. SEER 16 central air conditioner w/ programmable thermostat	$2,500
5. Energy Star rated room air conditioner	$275
6. 90% AFUE furnace with efficient air handler	$200[1]

[1] – incremental cost over 90% direct vent sealed combustion furnace

Grants will be provided to cover 100% of the cost for the measures. Measures 1, 2 and 3 will be installed in all homes. If air conditioning is present, either measure 4 or 5 will be installed and the grant will cover 100% of the cost.

DCEO also reserves the right to modify the incentive levels as needed in accordance with current market development, technology development, EM&V results and program implementation experience.

Milestones

- **October-February 2008:** Begin discussions with potential partners
- **February 2008:** Commission approval
- **February-May 2008:** Finalize set of program offerings
- **June 2008:** Work with partners to launch program

EM&V Requirements

Existing programs include final inspections on every home to insure measures were installed properly. EM&V process will include annual bill analysis for the first three years following implementation.

DCEO supports the proposed collaborative process to review the evaluation, measurement, and verification process and other aspects of the EEPS programs. Additional EM&V requirements will be added to the program if recommended through the collaborative process or by the EM&V contractor.

Administrative Requirements

Based on existing requirements of programs.

Estimated Participation

Measure	2009 Installations	2010 Installations	2011 Installations
1. Energy Star Refrigerator	500	750	1000
2. CFL installation	500	750	1000
3. Energy Star rated bathroom exhaust fan	469	704	939
4. SEER 16 central air conditioner w/ programmable thermostat[1]	203	305	407
5. Energy Star rated room air conditioner[1]	177	266	355
6. 90% AFUE furnace with efficient air handler[2]	381	572	763

[1] – it's assumed that not all homes will have existing air conditioning

[2] – it's assumed that not all homes will require furnace replacement

The above are estimates for planning purposes of the numbers of measures to be installed. Actual numbers will vary.

Estimated Budget

Estimated Budget				
Budget Category	2008	2009	2010	Total
Incentives	$1,000,000	$1,500,000	$2,000,000	$4,500,000
Admin & Implementation	$32,258	$36,000	$36,078	$104,336
Marketing	$0	$0	$0	$0
Total	$1,032,258	$1,536,000	$2,036,078	$4,604,336

Estimated Budget - ComEd				
Budget Category	2008	2009	2010	Total
Incentives	$740,542	$1,106,203	$1,477,292	$3,324,037
Admin & Implementation	$23,888	$26,549	$26,649	$77,087
Marketing	$0	$0	$0	$0
Total	$764,430	$1,132,752	$1,503,941	$3,401,124

Estimated Budget - Ameren				
Budget Category	2008	2009	2010	Total
Incentives	$259,458	$393,797	$522,708	$1,175,963
Admin & Implementation	$8,370	$9,451	$9,429	$27,250
Marketing	$0	$0	$0	$0
Total	$267,828	$403,248	$532,137	$1,203,213

This budget will be targeted to households with incomes at or below 150% of the poverty level, to fulfill the EEPS legislative requirement for a portfolio of electric efficiency programs targeted to such households. Other funding sources – such as Low Income Home Energy Assistance, the Energy Efficiency Trust Fund, the U.S. Department of Energy, settlements with natural gas utilities, and the Illinois Clean Energy Community Foundation – will be used to fund efficiency measures that reduce natural gas consumption in these housing units.

Savings Targets

Estimated Savings				
Year	2008	2009	2010	Total
MWH	876	1,314	1,752	3,943
MW	0.6	0.8	1.1	2.5

Estimated Savings - ComEd				
Year	2008	2009	2010	Total
MWH	649	969	1,294	2,912
MW	0.4	0.6	0.8	1.8

Estimated Savings - Ameren				
Year	2008	2009	2010	Total
MWH	227	345	458	1,030
MW	0.1	0.2	0.3	0.7

Since this Program is funding measures that will be directly installed, it is assumed that the energy reductions will occur in the same year as the funds are spent.

Other Program Metrics

Number of housing units where measures were installed.

DCEO 1.11

PROGRAM NAME	Smart Energy Design Assistance Program (SEDAC)
Objective	Achieve long-term and low-cost energy efficiency improvements in commercial and public new construction and existing buildings through design assistance and energy efficiency analysis. Assist public sector and business clients in identifying energy efficiency opportunities to take advantage of DCEO's and the utilities' Prescriptive and Custom incentive programs. Develop within Illinois a robust energy efficiency services industry for small and medium-size commercial and public loads to enable DCEO and the utilities to meet the later year EEPS goals.
Target Market	Public sector entities and commercial businesses that are investing in new facilities or renovating existing facilities.
Program Duration	Ongoing program that will continue throughout the three-year EEPS plan period.

Program Description

The Smart Energy Design Assistance Program is an expansion of an existing design assistance program offered through the Smart Energy Design Assistance Center (SEDAC) at the University of Illinois at Urbana-Champaign. The new program will expand the target from small and medium-size businesses to the public sector as well, including K-12 schools, community colleges, universities, and state and local government buildings.

To date, SEDAC has provided detailed design assistance to over 130 businesses. In addition, the program has provided information and support to nearly 900 other clients. The program also provides implementation assistance, in the form of continuing efforts to guide clients to adopt design assistance recommendations. When the new EEPS incentives and programs are offered, SEDAC will contact 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.

The program provides clients with design assistance reports that detail energy cost reduction measures (ECRMs) that have been analyzed. The reports list ECRMs individually, but rather than encourage the client to invest in only the quickest reduction strategies, the recommendations bundle cost-effective measures, accounting for interaction, to encourage clients to take advantage of the synergies that exist only when the whole building is analyzed. Cost-effective strategies are those bundles of ECRMs where the internal rate of return of the investment is greater than the discount rate and the net present value of the investment is greater than zero, with the financial analysis presented in a clear and simple fashion.

The basic design assistance analysis approach involves several steps:

1) The baseline energy model is constructed in TRACE 700, a software product developed by the Trane Company. TRACE 700 is a computer program that performs an hourly building energy simulation, which calculates the amount of energy (and the resulting utility cost of that energy) that the building is expected to use over an entire typical weather year. Model inputs include building geometry and orientation, wall & roof details, window area and type, type of heating/cooling system, type of lighting, local weather information, and schedules regarding lighting usage, internal equipment usage, and occupancy. This "baseline" computer model shows the building's estimated annual energy consumption and utility cost.

2) A computer analysis of energy cost reduction measures (ECRMs) is performed. These alternatives are generated after reviewing and discussing the baseline building plans or inspection report. The baseline computer model is changed to reflect the implementation of these ECRMs, and the computer model generates the resultant energy consumption and expected utility costs. Some ECRMs are evaluated external to the model since the model does not cover all circumstances.

3) The estimated savings and the additional costs of implementing all analyzed ECRMs are evaluated in a life cycle cost analysis.

4) ECRMs that have favorable economics are bundled together and re-modeled against the baseline where any interactions between ECRMs are accounted for.

For existing buildings, the baseline is the existing building systems and the full costs of the electricity cost reduction measures are analyzed. For new construction or renovation, the baseline is determined from design drawings and code requirements and the incremental costs of report recommendations are analyzed.

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. Courses offered include: The Architecture of Sustainability, Energy Basics, Basics of Architectural Lighting, Building Life-Cycle Cost Estimation, Beyond Code, Energy Efficiency Tax Benefits of EPAct 2005, LEED, and Geothermal. Trainings provide outreach and marketing opportunities for SEDAC and DCEO and help create awareness of technologies and programs.

Eligible Measures	The Smart Energy Design Assistance Program provides four levels of assistance to clients: Level 1: **Initial Consultations** include a variety of interactions with design professionals, building owners 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 opportunity, answer program questions, offer technical assistance with respect to energy and assess the potential value of providing additional program services. Level 2: **Energy Audits** include a 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. 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. Level 3: **Design Assistance** involves an in-depth building analysis that includes four steps: 1. Energy 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 Level 4: ***Implementation Support*** is provided when the SEDAC client incurs obstacles to the implementation of the recommended energy efficient technologies. These services will include guidance on: financial options, bids, specifications, contractor relationships and other services as required for implementation of energy efficiency improvements. 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.
Implementation Strategy	The program utilizes staff from the University of Illinois at Urbana-Champaign and other energy professionals that make up the Smart Energy Design Assistance Center (SEDAC). The program will be offered to the public sector and for-profit businesses. Current targeted market segments include restaurants, convenience stores, assisted living facilities, and lodging and will be expanded to the public sector. 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 and workshop and conference participation.
Marketing Strategy	The program has already developed an extensive database of interested parties. A monthly electronic newsletter is distributed to over 2,500 recipients. A program Web site has been established at www.sedac.org where Web hits and visitors continue to increase. During September 2007, there were over 45,000 Web hits and 1,800 visitors. A page has been set up at www.illinoiseeeps.org to direct clients to information on the EEPS, programs and incentives and to provide links to Ameren and ComEd programs and implementers. Additionally, the program is continually expanding the networks of energy service providers and design assistance experts. These databases and Website will be expanded to incorporate public sector entities. In addition, SEDAC and DCEO will market the program to K-12 schools, community colleges, universities, and state and local governments through meetings, speaking engagements, trainings, and other contacts.

Incentive Strategy

The four levels of assistance are offered for free to public sector entities and small and medium-size businesses. The program will refer clients to the Prescriptive and Custom programs offered by DCEO, Ameren and ComEd for implementation incentives. SEDAC also will continue to refer clients to the SEDAC Web page for information on all funding opportunities (state, federal, private, etc.).

Measure	Incentive Levels
Level 1: Initial consultations	Offered for free
Level 2: Energy Audits	Offered for free
Level 3: Design Assistance	Offered for free
Level 4: Implementation Support	Offered for free

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.

Milestones

Oct. 2007 – Feb. 2008: Begin marketing efforts to include public sector through monthly newsletter, meetings, speaking engagements, website (www.illinoiseeps.org), trainings and contact with other state offices.

Feb. 2008: Commission approval.

Feb. 2008 – May 2008: Open up design assistance to the public sector along with continued assistance for businesses.

Jun. 2008: Provide design assistance to public sector and small and medium-sized businesses to complement utility and DECO Prescriptive and Custom incentive programs.

Jun. 2009 – May 2011: Continue to provide design assistance to more public sector and business clients, while continuing to support existing SEDAC clients (business and public).

EM&V Requirements

Currently, SEDAC reports program energy and cost savings in a quarterly *Implementation Success Report*. Program savings are based on reported implementation of ECRMs from SEDAC clients who are contacted via telephone, e-mail, direct mail or site visits. Individual implementation reports are submitted for each client and a database is maintained that totals the impact. While DCEO does not intend at this time to claim kWh reductions through this program (in order to avoid double-counting of reductions that receive custom or prescriptive incentives that will be recommended by SEDAC), DCEO plans to continue collecting information on estimated savings and ECRM implementation. The information may be valuable to the independent EM&V contractor and may be used in the future to report savings from the program.

DCEO supports the proposed collaborative process to review the evaluation, measurement, and verification process and other aspects of the EEPS programs. Additional EM&V requirements will be added to the program if recommended through the collaborative process or by the EM&V contractor.

Administrative Requirements

The program will be administered through a grant with the Smart Energy Design Assistance Center at the University of Illinois at Urbana-Champaign. SEDAC will also contract with additional professionals to provide some of the design assistance and related services.

Estimated Participation

Measure	2008 # of measures	2009 # of measures	2010 # of measures
Level 1: Initial consultations	120	210	260
Level 2: Energy Audits	62	110	140
Level 3: Design Assistance	35	62	80
Level 4: Implementation Support	40	70	90

The above is an estimate of the numbers of entities that will receive the various levels of assistance for program planning purposes. Actual participation will vary.

Estimated Budget

Estimated Budget				
Budget Category	**2008**	**2009**	**2010**	**Total**
Incentives	**$0**	**$0**	**$0**	**$0**
Admin & Implementation	**$1,000,000**	**$1,700,000**	**$2,100,000**	**$4,800,000**
Marketing	**$0**	**$0**	**$0**	**$0**
Total	**$1,000,000**	**$1,700,000**	**$2,100,000**	**$4,800,000**

Estimated Budget - ComEd				
Budget Category	**2008**	**2009**	**2010**	**Total**
Incentives	**$0**	**$0**	**$0**	**$0**
Admin & Implementation	**$740,542**	**$1,253,697**	**$1,551,157**	**$3,545,396**
Marketing	**$0**	**$0**	**$0**	**$0**
Total	**$740,542**	**$1,253,697**	**$1,551,157**	**$3,545,396**

Estimated Budget - Ameren				
Budget Category	**2008**	**2009**	**2010**	**Total**
Incentives	**$0**	**$0**	**$0**	**$0**
Admin & Implementation	**$259,458**	**$446,303**	**$548,843**	**$1,254,604**
Marketing	**$0**	**$0**	**$0**	**$0**
Total	**$259,458**	**$446,303**	**$548,843**	**$1,254,604**

Other funding sources – in particular the U.S. Department of Energy and perhaps the Illinois Clean Energy Community Foundation – will be used to fund design assistance for clients located outside the ComEd and Ameren electric service territories and analysis of energy efficiency measures that reduce natural gas consumption. As noted in the milestones section above, marketing to the expanded target market will also begin this fall with existing funding sources.

Savings Targets

In order to avoid double-counting of savings from the utility and DCEO prescriptive and custom programs, no savings will be reported. However, even in the absence of incentives, SEDAC's June 2007 *Implementation Success Report* indicates that the design assistance provided by the program thus far has saved over 5,700 MWh annually and reduced demand by over 1.5 MW.

Other Program Metrics

Number of public sector entities and businesses assisted and number of design assistance reports completed.

DCEO 1.12

PROGRAM NAME	Large-customer Energy Analysis Program (LEAP)
Objective	Provide Illinois manufacturing companies, large hospitals and other large customers with total energy cost optimization and energy management planning. Assist large customers in identifying energy efficiency opportunities to take advantage of DCEO's and the utilities' Prescriptive and Custom programs (market those programs). Develop within Illinois a robust energy efficiency services industry for large and complex customer loads to enable DCEO and the utilities to meet the later year EEPS goals.
Target Market	Illinois manufacturers, hospitals and other large customers with energy costs greater than $500,000 a year. All targeted customers taking delivery service from ComEd or Ameren are eligible for this program regardless of their choice of supplier.
Program Duration	Beginning June 1, 2008 and continuing throughout the three-year EEPS plan period.
Program Description	LEAP is a rebranding and expansion of the Manufacturing Energy Efficiency Program (MEEP) that was introduced by DCEO in 2004. In this time, it has worked with approximately 70 different manufacturing companies in Illinois. LEAP targets the industrial sector, hospitals and other large customers by assisting them with the development of an energy management plan using one of two separate methods (or other similar methods that may be developed in the future): • Large customers may participate in a sustainable energy planning workshop where "hands on" consulting and coaching support can be provided as a follow-up to the workshop for the customer in developing the energy management plan, or • Large customers may participate in a "One-2-Five" software based diagnostic tool session that benchmarks the customer's energy management performance against over 1800 businesses worldwide and helps identify the best practices in energy management. The results from the diagnostic tool and survey are combined into an energy efficiency action plan for the customer to implement and achieve improvements, increase staff awareness, experience cost savings and enhance corporate reputation.
Eligible Measures	The program will offer energy management planning and technical analysis services using the above mentioned methods. Large customers who have participated in the development of an energy management plan are eligible for the program funding to include follow on technical services.

Implementation Strategy	The program utilizes approaches such as Envinta's "One-2-Five" energy diagnostic software and Utilivate's sustainable energy management plan. One critical advantage of the program is that facilitators have been trained and additional facilitators will be trained on the use of energy diagnostic tools, building the expertise and capacity of Illinois-based large-customer energy efficiency analysis firms. Manufacturers, hospitals and other large customers willing to send energy management staff and CFO-type officers to a workshop can take advantage of the sustainable energy management plan workshops. These workshops will be made available at several locations around the state. Such customers willing to commit two hours of senior management staff time on a One-2-Five diagnostic session in their facility can take advantage of developing an energy management action plan. In order to implement the program, DCEO will use Envinta on to train and advise facilitators on the use of the One-2-Five diagnostic tool. Facilitators will require grants with DCEO in order to conduct sessions and work with manufacturers. Customers will pay the facilitators for their services and DCEO will give rebates for 50% of the cost up to $10,000 for the development of action plans and another rebate for 50% of the cost up to $10,000 for technical services provided by the facilitators. DCEO will also work with companies such as Utilivate to conduct the sustainable energy workshops and assist manufacturers with developing their energy management plans. Customers will pay a portion of the workshop expense. The program may be expanded along similar lines to support large customer assessments through approaches other than those of Utilivate and Envinta.
Marketing Strategy	The program will be marketed by DCEO, Envinta, Utilivate, and the facilitator/consulting community. DCEO will market the program through regional offices, presentations at workshops, industrial and business associations, direct mailings and limited cold calling where appropriate. A list of interested manufacturers, hospitals and large customers is already available. Envinta will help market the program through the development of marketing brochures, mailings and presentations at workshops. Utilivate will market the workshops through internal efforts to include developing brochures, working with trade organizations and municipal organizations. Facilitators will help market the program by bringing Illinois manufacturers, hospitals and other large customers to the program from previous energy conservation efforts. Facilitators will also follow-up with initial leads provided by DCEO with availability of services and program description.

Incentive Strategy

The program incentives are as follows. DCEO reserves the right to modify the incentive levels as needed in accordance with current market development, technology development, EM&V results and program implementation experience.

Measure	Incentive Level
One-2-Five diagnostic session	100% funding provided
Strategic Planning Workshop	$500 cost to Offered to customer
Energy Action Plan	50% of cost up to $10,000
Technical Analysis	50% of cost up to $10,000

Milestones

- **February 2008**: Commission approval
- **February-May 2008**: Refine program design and protocols
- **June 2008**: Program launch

EM&V Requirements

The training sessions, workshops, diagnostic sessions, etc. will be evaluated through post-training surveys and interviews with clients and facilitators. Because one primary purpose of the program is to direct customers to the DCEO and utility prescriptive and custom programs, and to avoid double-counting of kWh reductions that will be counted in those programs, DCEO will not seek to claim direct kWh reductions through this program.

DCEO supports the proposed collaborative process to review the evaluation, measurement, and verification process and other aspects of the EEPS programs. Additional EM&V requirements will be added to the Program if recommended through the collaborative process or by the EM&V contractor.

Administrative Requirements

Program manager responsibilities include final program design, marketing materials development, program marketing and outreach activities, project management and QA/QC activities, tracking and reporting, and program goal achievement.

Estimated Participation

Based on adding implementation financial incentives through DCEO's and the utilities' Prescriptive and Custom programs, DCEO expects more than adequate demand for the Large-customer Energy Assistance Program.

Estimated Budget

Estimated Budget				
Budget Category	2008	2009	2010	Total
Incentives	$0	$0	$0	$0
Admin & Implementation	$100,000	$200,000	$400,000	$700,000
Marketing	$0	$0	$0	$0
Total	$100,000	$200,000	$400,000	$700,000

Estimated Budget - ComEd				
Budget Category	2008	2009	2010	Total
Incentives	$0	$0	$0	$0
Admin & Implementation	$74,054	$147,494	$295,458	$517,006
Marketing	$0	$0	$0	$0
Total	$74,054	$147,494	$295,458	$517,006

Estimated Budget - Ameren				
Budget Category	2008	2009	2010	Total
Incentives	$0	$0	$0	$0
Admin & Implementation	$25,946	$52,506	$104,542	$182,994
Marketing	$0	$0	$0	$0
Total	$25,946	$52,506	$104,542	$182,994

Savings Targets

None.

Other Program Metrics

e.g. Number of trained facilitators, diagnostic sessions, strategic planning workshops, energy action plans, and
technical analyses conducted.

D&20 1.13

PROGRAM NAME	Building Industry Training and Education
Objective	To train professionals from all aspects of the building industry in energy efficient practices and about energy efficient products and equipment, in order to develop the robust energy *efficiency services market necessary to achieve the EEPS goals in future years.*
Target Market	All industry groups related to the design, building, rehab and O & M of buildings and industrial processes
Program Duration	Beginning June 1, 2008 and continuing throughout the three-year EEPS plan period.
Program Description	Statewide educational workshops on techniques/practices
Eligible Measures	DCEO will offer a range of training programs for all groups related to the design, building, rehab, operation, and maintenance of all types of buildings and industrial process improvements. Training programs would include the following as funds allow: • Energy Code Training – train code enforcement officials, architects, designers, engineers, builders, contractors, and other interested parties on current codes, code updates, and potential new codes (i.e. residential energy code) to facilitate and increase code compliance. DCEO notes that Code Training supports the building standards requirements of the statute. 220 ILCS 5/12-103(f)(2) • Commercial Builders (New Construction) – train commercial designers, builders and contractors to build beyond code, including achieving LEED certification. • Commercial Existing Building "Lost Opportunity" (Rehab and HVAC end-of-life replacement) – train HVAC installers who replace HVAC equipment at the end of life to understand and recommend more efficient options (by integrating savings with other building systems, right-sizing replacement equipment rather than replacing like-with-like, and by recommending higher efficiency equipment). • Commercial Building Owners and Operators – Building Operator Certification (BOC) is a nationaly recognized training and cerification program for building operators offering improved job skills and more comfortable, energy-efficient facilities. Cerification is competency-based and offered at two levels: Level 1 emphasizing energy-efficient building maintenance practices and Level II stressing advance equipment troubleshooting and preventive maintenance. • Residential Homebuilders (New Construction) – train builders and contractors in how to build beyond code, including how to qualify for Energy Star New Homes, using existing curricula such as Houses That Work and Midwest Building Solutions. • Residential Contractors (Rehab) – train builders and contractors to adopt a whole house approach to improve the energy efficiency of existing homes, using *curriculum based on Home Performance with Energy Star.* • Industrial Assessment – Work with US DOE-funded Industrial Assessment Centers at UIC and Bradley University to identify energy efficiency opportunities that can be funded through utility EEPS C&I programs. • Community College Training Programs – provide training through Illinois Community Colleges towards an occupational certificate for construction and building operator trades, building inspectors, site supervisors, and related occupations DCEO may add other types of training based on current market development, technology development, EM&V results and program implementation experience.
Implementation Strategy	DCEO will organize and coordinate workshops and training, with contractor assistance as needed, for all sectors throughout the state in order to educate the industry on the state of the art energy efficiency practices for building construction, rehab, operation, and maintenance.

Marketing Strategy	Publicize workshops through trade publications, associations and industry groups (ASHRAE, ISPE, AIA, State Board of Education, Community College Board, Higher Ed, IML, APEC, etc.).
Incentive Strategy	DCEO Building Training and Education Program will use EEPS funds to buy down the cost of the training sessions to make them available to more building professionals statewide.
Milestones	• **February 2008**: Commission approval • **February-May 2008**: Refine program designs and establish workshop schedule. • **June 2008**: Program launch
EM&V Requirements	The training and education programs will be evaluated in various ways to ensure that the quality of the training is maintained, including participant surveys. Efforts will be made as well to survey participants about how they have followed up and implemented practices learned in the training. As noted above in the eligible measures section, codes training is required by statute. Codes training is critical because real-world on-the-ground code implementation does not necessarily follow from code adoption (code implementation can break down when code officials are not hired or trained in the energy codes and in practice make no enforcement efforts; when code-compliant plans are inaccurately transferred to actual construction documents; and when actual construction documents are misinterpreted or ignored by construction contractors). DCEO intends to propose in the EM&V collaborative that an optimal use of early EM&V funds would be market assessments to better gauge the actual implementation of building codes in Illinois. DCEO does not currently propose to claim any actual kWh savings as a result of code education efforts, but based on the findings of market assessments and the EM&V collaborative reserves the right to claim such savings in the future.
Administrative Requirements	DCEO will organize and coordinate the workshops, using contractor assistance as necessary. For established programs, existing administrative requirements will be followed.
Estimated Participation	

Measure	2008 Trainings	2009 Trainings	2010 Trainings
Workshops/Trainings	**74**	**105**	**191**

The above numbers have been estimated for planning purposes, assuming approximately $6,000 per training session. Actual numbers of sessions may vary.

Estimated Budget

Estimated Budget [illegible]				
Budget Category	2008	2009	2010	Total
Incentives	$0	$0	$0	$0
Admin & Implementation	$543,175	$732,800	$1,244,925	$2,520,900
Marketing	$0	$0	$0	$0
Total	$543,175	$732,800	$1,244,925	$2,520,900

Estimated Budget - ComEd				
Budget Category	2008	2009	2010	Total
Incentives	$0	$0	$0	$0
Admin & Implementation	$402,244	$540,417	$919,559	$1,862,220
Marketing	$0	$0	$0	$0
Total	$402,244	$540,417	$919,559	$1,862,220

Estimated Budget - Ameren				
Budget Category	2008	2009	2010	Total
Incentives	$0	$0	$0	$0
Admin & Implementation	$140,931	$192,383	$325,366	$658,680
Marketing	$0	$0	$0	$0
Total	$140,931	$192,383	$325,366	$658,680

Savings Targets

None

Other Program Metrics

Training sessions offered each year around the state and number of participants by profession and location.

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CALCULATION OF LOW-INCOME SHARE

Illinois population <150% of poverty level [1]	2,527,133	persons
	÷	
Average low-income persons per household [2]	2.74	persons/household
	x	
Illinois households < 150% of poverty level	921,413	households
	x	
Share of <150% households in ComEd and Ameren territories [3]	92.6%	percent
Households <150% of poverty in ComEd and Ameren territories	853,452	households
Average kilowatt-hour consumption of <150% households [4]	6,941	kWh/household
	x	
Average residential electric rate [5]	0.107	$/kWh
Average electricity bill of <150% households	$740	$/household
Households <150% of poverty in ComEd and Ameren territories	853,452	households
	x	
Average electricity bill of <150% households	$740	$/household
Total electric bills of <150% households	$632	million dollars
Total electric bills of <150% households	$632	million dollars
	÷	
Total electric bills of all customer classes [5]	$10,640	million dollars
Percent of total electric bill paid by <150% households	5.94%	percent

[1] U.S. Census Bureau 2006 American Community Survey

[2] U.S. Census Bureau 2000 Census

[3] Based on U.S. Census Bureau, percent of households by county with incomes below 150% of federal poverty level

[4] Illinois Department of Healthcare and Family Services, based on sample of low income household bills from Ameren and ComEd

[5] Based on ComEd and Ameren filing

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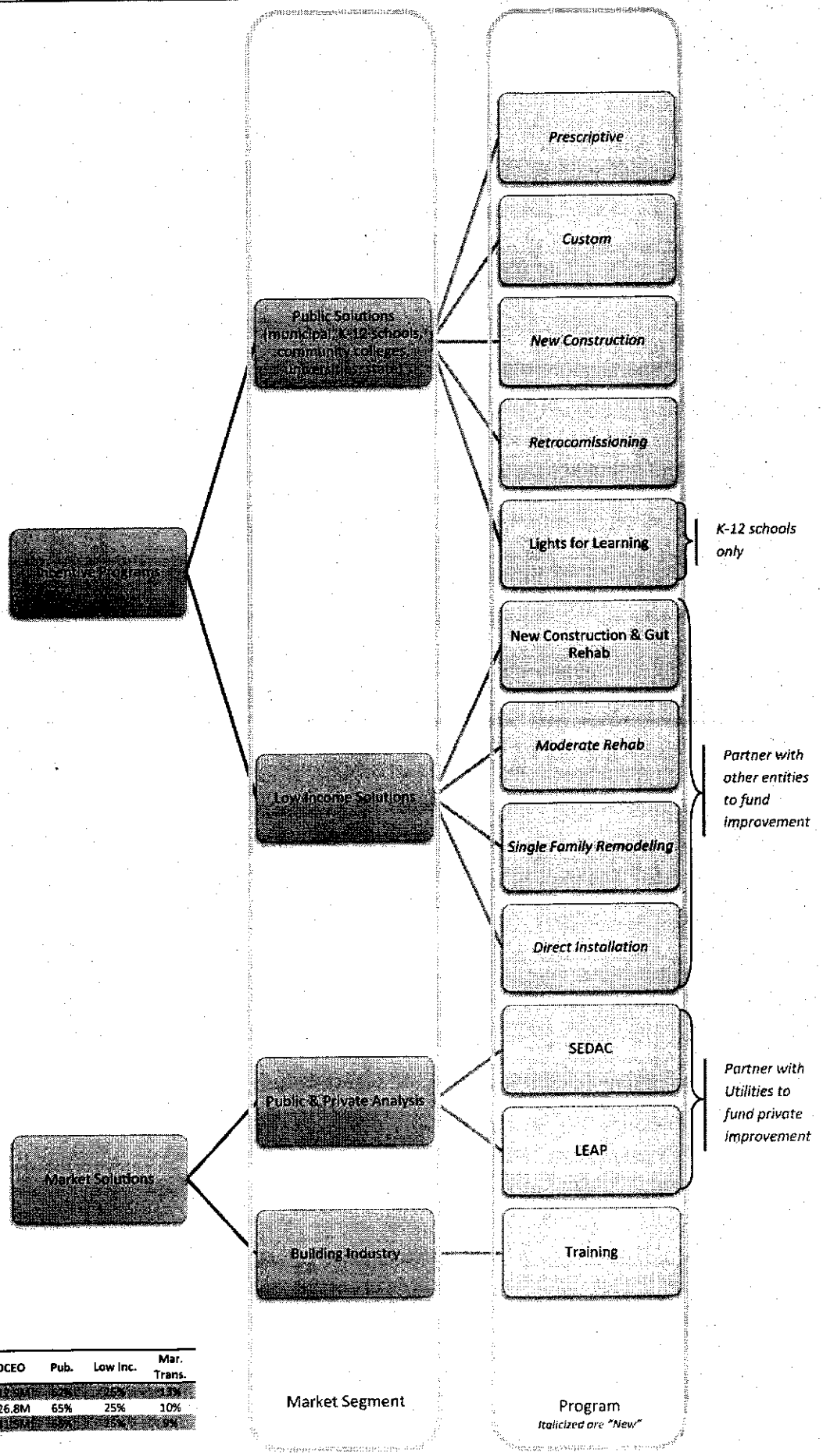

	DCEO	Pub.	Low Inc.	Mar. Trans.
Year 1	$19.5M	62%	28%	13%
Year 2	$26.8M	65%	25%	10%
Year 3	$41.5M	58%	35%	9%