QUARTERLY REPORT

MARCH 2001

NEW YORK ENERGY $MART℠ PROGRAM EVALUATION AND STATUS REPORT

Quarterly Report to the New York State Department of Public Service

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EXECUTIVE SUMMARY

INTRODUCTION

New York's public benefits program, funded by a Statewide System Benefits Charge (SBC), was initiated in 1998. The program was funded at approximately $234 million for the period beginning July 1, 1998 and ending June 30, 2001. NYSERDA was named administrator of approximately $175 million (representing about 74%), with the remaining $59 million (26%) used to fulfill earlier program obligations of New York's six investor-owned electric utilities.[1] NYSERDA's **New York Energy $mart℠** program commenced program implementation activities in late 1998.

This report provides data on quarterly progress and cumulative results through December 31, 2000,[2] including summary information on the **New York Energy $mart℠** program budget, implementation status, and current and planned program evaluation activities.

BUDGET STATUS

With interest earnings accruing through the first 24 months of the program, the total three-year **New York Energy $mart℠** budget is $182.1 million.[3] As of December 31, 2000, approximately $166.2 million, or 91.3% of the program budget was committed,[4] up from 77% through September 30, 2000. The Energy Efficiency program budget is 92% committed, the Low-Income budget is 75% committed, and the R&D budget is 100% committed.

PROGRAM IMPLEMENTATION STATUS

To date, NYSERDA has issued 63 solicitations, 36 for program implementation and 27 for financial incentives for customer participation in **New York Energy $mart℠** programs. Three new program

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[1] Utility-managed programs are not evaluated as part of the **New York Energy $mart℠** program evaluation.

[2] Previous evaluation reports are available at NYSERDA's web site.

[3] The SBC funds collected from utility companies are maintained in a separate bank account under the custody of the Commissioner of Taxation and Finance, NYSERDA's statutory fiscal agent. These funds remain invested until disbursed, consistent with investment guidelines approved by NYSERDA's Board and guidelines promulgated by the State Comptroller.

[4] Committed funds consist of funds tied to purchase orders, contracts, incentive applications pending award, and open solicitations.

solicitations have been released since September 30, 2000.[5] Additional information on solicitation activities, including cycle times, is provided in Section 1 of this report.

Table S-1 summarizes the anticipated outcomes for the three-year **New York Energy $mart℠** program for funds awarded to date, and for the full subscription of available program funds. The anticipated outcomes from funds awarded to date include electricity savings of 722.7 million kWh annually and reduction in peak demand by 140.2 mW. The anticipated electricity savings from full subscription of available program funds are 881.6 million kWh annually and 200.5 MW of reduced peak demand. This is equivalent to serving the average annual electricity needs of approximately 146,000 residential households.

Table S-1 Summary of Anticipated Outcomes

Outcomes	Anticipated from Funds Awarded	Anticipated from Full Subscription of Three-Year Budget
Annual Electricity Savings (including clean generation from wind and PV)	722.7 million kWh	881.6 million kWh
Demand Reduction (MW)	140.2 MW	200.5 MW
tBtu Savings - all fuels, including electricity*, oil, and natural gas	10.1 tBtu	12.5 tBtu
Annual Energy Bill Reduction - all fuels	$88.2 million	$108.5 million
Environmental Benefits (emission reductions)		
NO_X (tons per year)	708	866
SO_2 (tons per year)	1,178	1,456
CO_2 (tons per year)	520,483	640,239
Economic Benefits Jobs Created (jobs created or sustained per year)	1,700	2,100

* tBtu savings at the generation source.

Anticipated annual air emissions reductions from full subscription of program funds are estimated to be 886 tons of NO_X, 1,456 tons of SO_2, and 640,239 tons of CO_2. The CO_2 emission reductions are equivalent to those emitted from approximately 128,000 automobiles. Total annual consumer savings associated with full subscription of program funds are expected to be over $108.5 million.[6] The economic benefits from improving the efficiency of energy use, and reducing the amount of money

[5] The three new solicitations were for Technical Services, Price Sensitive Load Management, and Peak Load Reduction including Emergency Generation.

[6] This number includes electricity bill savings and identified oil and natural gas savings.

leaving the State to pay for imported energy, are estimated to create over 2,100 jobs in New York annually.[7]

Table S-2 presents a summary of the progress toward the two public policy goals established by the Public Service Commission (PSC). Progress since the last report includes increase in the number of participating allies, increased consumer demand for energy-efficient products, continued assistance to the Low-Income sector, and new R&D projects in renewable energy.

RECENT DEVELOPMENTS IN SBC FUNDING

On January 26, 2001 the New York State Public Service Commission (PSC) issued an Order[8] to extend the System Benefits Charge (SBC) program in New York. The five-year extension begins in July 1, 2001 and ends June 30, 2006. The funding was increased to $150 million per year. The PSC Order identified new strategic objectives, including (1) development and implementation of initiatives to support peak load reduction; (2) funding of non-electric energy efficiency measures when doing so will reduce peak demand and is part of a comprehensive service, and (3) equitable geographic distribution of SBC funds. In response to the PSC Order, NYSERDA submitted a SBC *Operating Plan*[9] to the PSC, identifying the specific program initiatives designed to address the PSC's goals. Copies of the *Operating Plan*, are available from NYSERDA.

REPORT CONTENTS

Section 1 of this quarterly report presents a detailed assessment of the budget and financial status, solicitation and contracting process, and program outcomes of the **New York Energy $mart℠** program through December 31, 2000. Section 2 highlights evaluation activities to date and also outlines a tentative schedule of the evaluation activities planned through December 2001.

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[7] These jobs are expected to be in New York's service and retail trade sectors and will be supported annually, for as long as implemented energy efficiency measures remain in effect.

[8] State of New York Public Service Commission. January 26, 2001. *Order Continuing and Expanding the System Benefits Charge for Public Benefit Programs.* CASE 94-E-0952 - In the Matter of Competitive Opportunities Regarding Electric Service.

[9] New York State Energy Research and Development Authority (NYSERDA). *System Benefits Charge: Proposed Operating Plan for the **New York Energy $mart℠** Programs (2001-2006)*. February 15, 2001.

Table S-2: Cumulative Summary of Progress Toward Goals

PUBLIC POLICY GOALS

1. PROMOTE COMPETITIVE MARKETS FOR ENERGY EFFICIENCY SERVICES

- The **New York Energy $mart℠** program is providing a strategically balanced portfolio of over 35 programs that seek to overcome market barriers to increased supply and demand for energy efficiency products and services.

- NYSERDA is enhancing the growth of the energy services market.

  - Since last reported, NYSERDA has increased the number of participating ESCO's by over 18% from 49 to 58.

  - The number of participating technical assistance providers has increased since last report from 120 to over 150, a 25% increase.

  - A network of 1,400 market allies are participating to promote and support market adoption of energy efficiency products and services in New York. This network has expanded over the past quarter by 40%.

  - The number of participating residential distributors, vendors and retailers of energy efficiency products has increased over 13% to over 500 compared to 440 in the last report.

- Programs are increasing consumer demand for energy efficiency services.

  - The number of customers that will receive reduced interest financing for the installation of energy efficiency measures through the **New York Energy $mart℠** Loan Fund program has increased by over 29%.

  - The Residential Appliances and Lighting program issued a catalog that provides discounted prices on compact flourescent bulbs and lighting fixtures. The ENERGY STAR® Lighting Solutions Catalog offer began in December 2000 and will run through April 2001. Latest results show that by the end of February 2001, gross sales had exceeded $460,000, representing sales of over 35,000 compact flourescent bulbs, 1,100 replacement lamps, 1,200 interior fixtures, 120 exterior fixtures, and 960 torchiere lamps.

  - Through the Keep Cool program, residential customers are eligible to receive a $75 coupon toward the purchase of a new ENERGY STAR® model air conditioner. As of December 31, 2000 over 670 coupons have been turned in for these purchases. This effort is both increasing demand for ENERGY STAR® model air conditioner and helping to reduce summer peak electricity demand, especially in the New York City area.

2. PROVIDE DIRECT BENEFITS TO ELECTRICITY RATEPAYERS, OR BE OF CLEAR ENVIRONMENTAL OR ECONOMIC BENEFIT TO THE PEOPLE OF NEW YORK STATE.

- The **New York Energy $mart℠** program is helping to reduce energy burden and enhance economic and environmental benefits for ratepayers in New York State. See Table S-1.

- As of December 31, 2000, more than 1,600 energy-efficient refrigerators, 9,500 compact fluorescent lights (CFL's), and 5,200 hard-wired fluorescent fixtures have been installed within individual units recognized as low-income through the efforts of the Low-Income Direct Installation program. Direct installation of energy efficiency measures such as these are helping to reduce the energy burden of low-income households, as well as provide ancillary health, safety, and comfort benefits.

- From awarded funds totaling $133 million, the anticipated private sector investment in the State is $420 million.

- The Renewable Energy program has successfully installed renewable energy capacity in New York State and continues to reduce barriers to further renewable investments and installations.

  - The seven-turbine, 11.5 MW Madison Wind Project was completed on October 6, 2000. During the months of October, November, and December the plant produced a total of 5,355 MWh of electricity.

  - A 7.5 MW wind project approved for $2 million of **New York Energy $mart℠** funding in the town of Fenner, New York was expanded. The expanded project will receive $5 million in **New York Energy $mart℠** funding for a wind plant with 30 MW of installed capacity.

  - Four projects totaling over $600,000 have been approved through the Wind Prospecting Development program. These projects will help to lay the groundwork for further wind development by collecting and analyzing site specific data on wind resources, interconnection costs, and environmental impacts for 15 to 22 sites in New York State, each with a minimum of 10 MW of generation capacity.

Section 1

QUARTERLY PROCESS AND PROGRESS UPDATE

INTRODUCTION

This section updates the implementation status of the **New York Energy $mart℠** program since the December 2000 *New York Energy $mart℠ Program Evaluation and Status Report.* The December report provided results through September 30, 2000. This report updates the status of program budgeting and implementation through December 31, 2000.

BUDGET STATUS

Through December 31, 2000, the **New York Energy $mart℠** budget, including accrued interest earnings through June 30, 2000 was $182.1 million.[1] Committed funds[2] have increased from 77% to 91% of the three-year budget since the last report, as reported in Table 1-1 by major program area.

Table 1-1: Budget Status by Program Area as of December 31, 2000 ($ million)

Program Area	3-year Budget	Committed	Committed as % of Budget	Budget Balance (Planned)
Energy Efficiency	$123.9	$114.2	92%	$9.7
Low-Income	$16.2	$12.2	75%	$4.0
R&D	$28.8	$28.8	100%	$0.0
Environmental Disclosure	$2.9	$0.4	12%	$2.5
Metrics/Evaluation	$0.6	$0.6	100%	$0.0
Administration	$9.7	$7.2	74%	$2.5
TOTAL	$182.1	$166.2	91%	$15.9

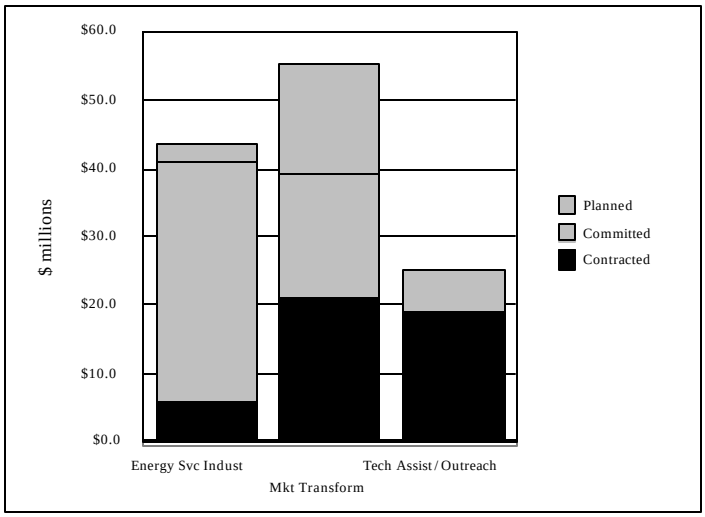
[1] The SBC funds collected from utility companies are maintained in a separate bank account under the custody of the Commissioner of Taxation and Finance, NYSERDA's statutory fiscal agent. These funds remain invested until disbursed, consistent with investment guidelines approved by NYSERDA's Board and guidelines promulgated by the State Comptroller.

[2] Committed funds includes funding tied to purchase orders, contracts, incentive applications pending award, and open solicitations. More than $89 million of the committed funds were encumbered (contracted) by December 31, 2000. Approximately $35 million (nearly 40%) of the encumbered funds were invoiced as of December 31, 2000.

Energy Efficiency Services

The Energy Efficiency Services program area, funded at $123.9 million, includes Energy Services Industry, Market Transformation, and Technical Assistance programs. Committed funds have increased from 75% to 92% of the three-year Energy Efficiency Services budget since September 30, 2000. Figure 1-1 provides a financial summary by program area.

Figure 1-1: Financial Summary for Energy Efficiency Services



Reprogramming of Energy Efficiency Funds. Consistent with the Public Service Commission's (PSC's) public policy goals, NYSERDA is committed to offering programs that ease the transition to greater competition in the electricity industry. NYSERDA monitors and evaluates individual **New York Energy $mart℠** program performance and adjusts funding levels based on changes in customer needs, perceived value of its service offerings, and changing market conditions. Since the last quarterly report, NYSERDA has reprogrammed approximately $6.8 million within the Energy Efficiency Services program area. Table 1-2 shows this reprogramming and also reflects the addition of $5 million in additional funding from interest earnings and unexpended utility SBC funds.

Table 1-2: 4th Quarter 2000 Reprogramming of Energy Efficiency Services Budget

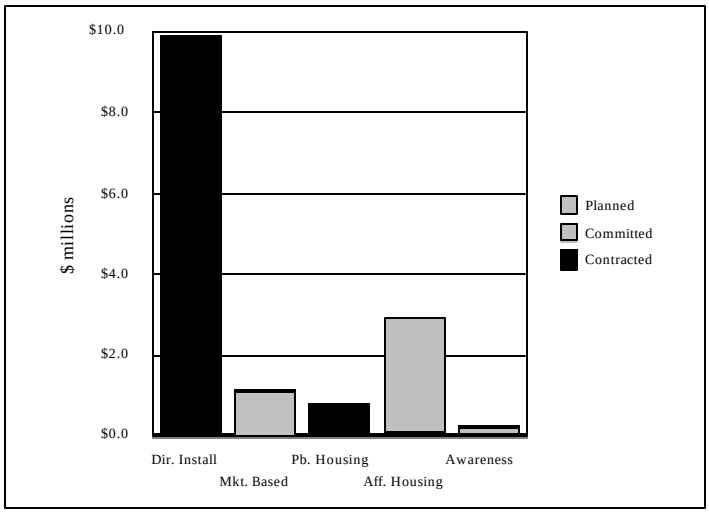
Program	Adjustment ($ millions)
Standard Performance Contract	$6.8
Premium Efficiency Motors	($1.0)
New York Energy $mart℠ Loan Fund	($3.8)
Residential Financing	($2.0)
Cooling Recommissioning	$3.0
Keep Cool	$2.0

Low-Income Energy Affordability

The Low-Income Energy Affordability program area, funded at $16.2 million, includes Direct Installation, Market- Based Strategies (Aggregation), Public Housing Coordination, Affordable Assisted Housing, and Public Awareness programs. Committed funds have increased from 73% to

approximately 75% since the last report. Committed funds are expected to increase in the next quarter as the $2.8 million in incentives for the Affordable Assisted Housing program are awarded to customers. A financial summary of the Low-Income program is shown in Figure 1-2.

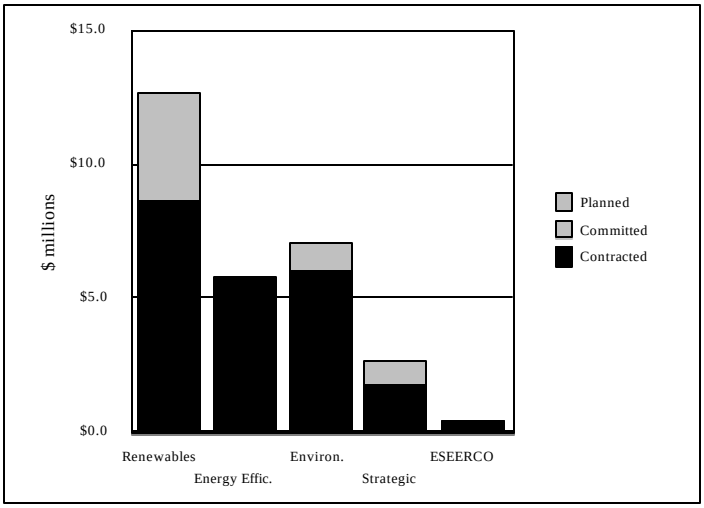
Figure 1-2: Financial Summary for Low-Income



Research and Development

The Research and Development (R&D) program area, funded at $28.8 million, includes Renewable Energy, Energy Efficiency and Strategic R&D, Environmental Monitoring, Evaluation, and Protection program, and projects transferred from the Empire State Electric Energy Research Corporation (ESEERCO). Committed funds have increased from 98% to 100% of the three-year R&D budget since the last report. A financial summary of the R&D programs is shown in Figure 1-3.

Figure 1-3: Financial Summary for R&D



PROCESS SUMMARY

Solicitations Released

To date, NYSERDA has issued a total of 63 solicitations for **New York Energy $mart℠** program implementation and incentives. Since the last quarterly report, three new solicitations have been issued consisting of Price Sensitive Load Management, Technical Services, and Peak Load Reduction (including dispatchable emergency generation).

<u>Program Implementation Solicitations.</u> A total of 36 solicitations, 18 RFPs (Request for Proposals) and 18 PONs (Program Opportunity Notices) have been issued to competitively select and hire contractors for program design or implementation. At the time of this report, all of these solicitations have closed. Overall, 390 proposals were received and 123 (about 32%) have been (or are soon expected to be) awarded contracts.

Incentive Offerings. A total of 27 solicitations have been issued offering financial incentives. To date, 22 have closed and six remain open.[3] The solicitations that have closed have yielded more than 629 applications, 87% of which have been (or are soon expected to be) approved for funding.

Program Process Cycle-Times

NYSERDA's **New York Energy $mart℠** program solicitation process consists of three major phases, each of which is tracked for administrative efficiency.

Phase 1. The time from the Program Development Management Committee approval to release of the program solicitation.

Phase 2. The time from solicitation release to the due date for proposals or applications. This represents the amount of time that contractors or customers have to respond.

Phase 3. The time from the proposal or application submission date to the date of contract signing.[4] A significant portion of the time for this phase for RFPs and PONs is attributable to the complexity in reaching agreement with proposers on specific work scopes and contract terms. Phase three is typically longer for PONs than RFPs since multiple proposals, sometimes more than 20, are often approved for funding. The phase three cycle time shown for incentives represents only those with limited enrollment time and a Technical Evaluation Panel review process, such as the Technical Assistance programs. For several other open enrollment incentive offerings, like New Construction and Premium Efficiency Motors, phase three is significantly shorter since it only entails approval of applications for eligibility criteria. NYSERDA will institute a sampling procedure so that cycle time for open enrollment incentive-based programs can be presented in future reporting.

The median number of weeks for each phase is shown in Figure 1-4 for RFPs and for PONs. As noted in the last report, NYSERDA has established a task force to examine aspects of the solicitation process and identify opportunities to streamline. Several recommendations have already been instituted, and are beginning to show progress toward improved efficiency. Notable improvements

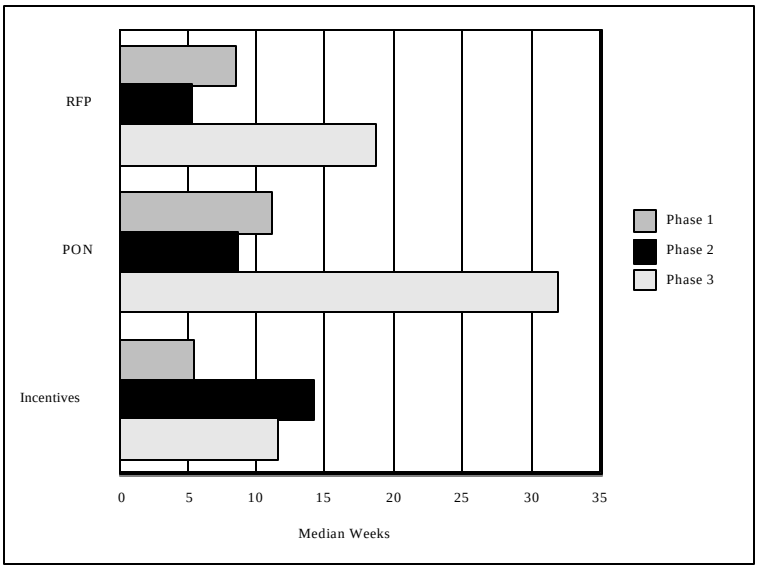
[3] Incentive offerings open at this time are for Standard Performance Contracting, New Construction, the Loan Fund, Technical Services, Peak Load Reduction, and Emergency Generation.

[4] The method used for calculating phase three cycle-time for PONs has been adjusted to more accurately reflect actual conditions for solicitations resulting in multiple contracts. Instead of calculating cycle-time from proposal due date to the date the first contract was signed, NYSERDA now calculates cycle time from proposal due date to the date that the middle contract was signed.

since the last report include:

- continued improvement in cycle time for multiple round solicitations,
- replacing the more lengthy Technical Evaluation Panel review process with an in-house review for Technical Assistance program applications, and
- increased efficiency in the contract negotiation process as experience is gained in dealing with many "test case" issues, such as website development.

Figure 1-4: Cycle Time (Median Weeks per Phase)



PROGRESS SUMMARY

Funds Awarded

Awarded funds represent funds that have been contracted or will soon be contracted as a result of pending applications or management approval of projects. It is a more immediate measure than committed funds which include open solicitations for which incentive applications have not yet been received. Figure 1-5 shows, by major program area, funds awarded in year one, year two, and year three. As of December 31, 2000 over 76% of the three-year program budget has been awarded. This represents a 5% increase since this information was last reported.

Anticipated Energy Savings

Table 1-3 lists program budgets and awarded funding for programs for which energy savings are being tracked or will be tracked as results become available.

Figure 1-5: Funds Awarded by Year by Major Program Area

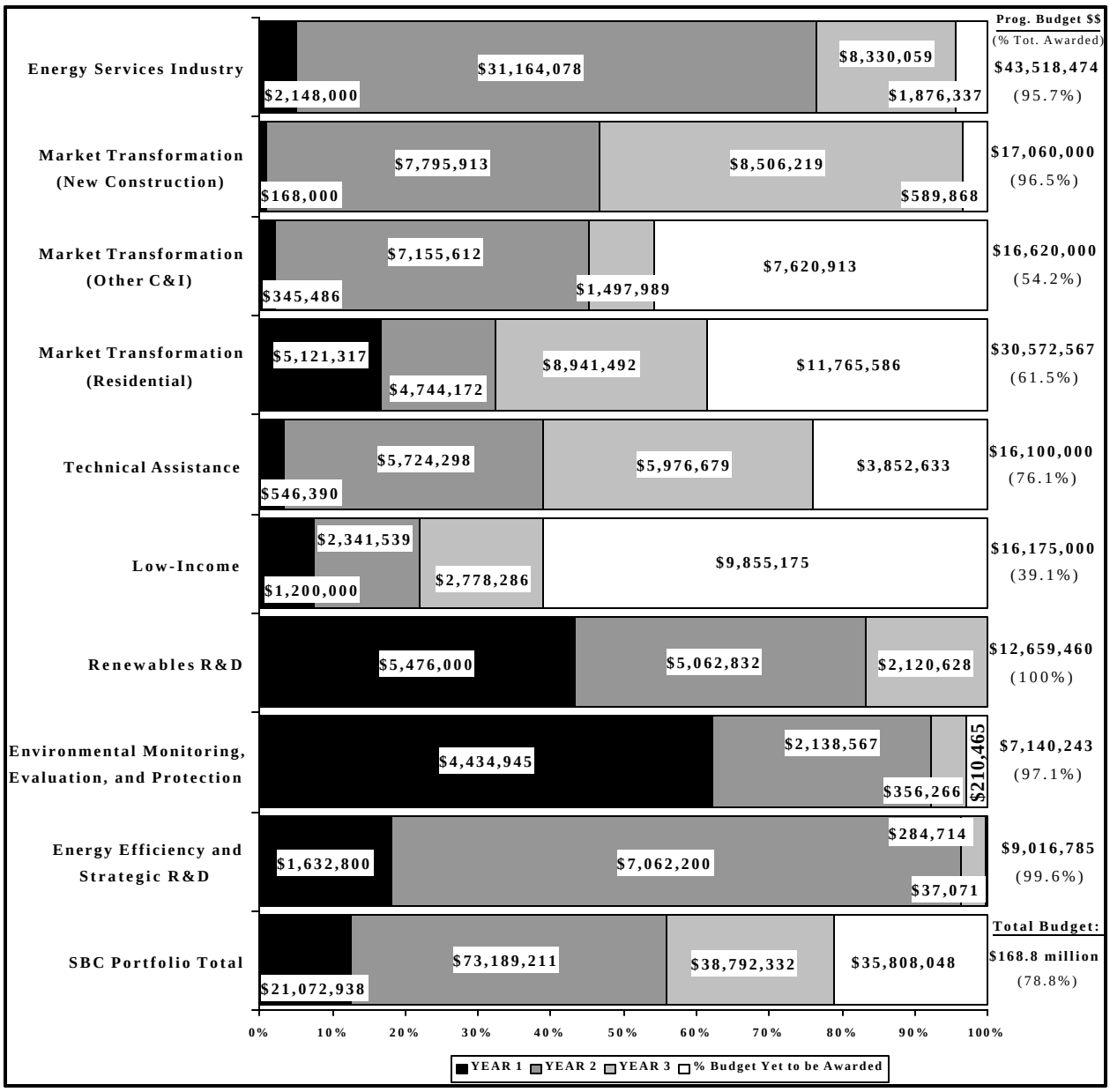


Table 1-3: Funds Awarded for Programs Reporting Energy Savings

	Three-Year Budget ($ Millions)	Funds Awarded ($ Millions)	% of Budget Awarded
Energy Services Industry Programs			
Standard Performance Contract	$40.3	$38.7	96%
Institutional Performance Contracting	$3.25	$2.95	91%
Energy Services Subtotal	*$43.55*	*$41.65*	*95.6%*
Market Transformation Programs			
C/I New Construction	$17.1	$16.5	97%
Premium-Efficiency Motors	$1.5	$0.95	63%
C/I HVAC	$1.7	$1.6	94%
Small Commercial Lighting	$3.8	$1.8	47%
Loan Fund	$6.0	$1.8	30%
Residential Appliance & Lighting, ENERGY STAR® Awareness	$13.0	$11.9	91.5%
Keep Cool	$5.0	$3.9	78%
Residential New Construction	$2.4	$0.3	12%
Home Performance with ENERGY STAR®	$7.0	$2.6	37%
Guaranteed Loan Fund	$1.0	$0.08	8%
Market Transformation Subtotal	*$58.5*	*$41.4*	*70.7%*
Technical Assistance Programs			
C/I Technical Assistance	$9.9	$9.0	91%
Cooling Recomissioning	$3.0	$3.4	113%
Residential Comprehensive Energy	$3.2	$0.5	16%
Technical Assistance Subtotal	*$16.1*	*$12.9*	*80.1%*
Low-Income Programs			
Direct Installation	$9.9	$4.2	42%
Other Low-Income Programs*	$3.8	$1.0	26%
Low-Income Subtotal	*$13.7*	*$5.2*	*38%*
R&D Programs			
Utility-scale Wind	$6.6	$6.6	100%
PV Installation Programs	$4.3	$4.3	100%
R&D Subtotal	*$10.9*	*$10.9*	*100%*
TOTAL For Programs Listed	**$142.8**	**$112.05**	**78.5%**

*Technical Assistance for Publicly-Assisted Housing program and the Affordable Assisted Housing program.

Table 1-4 presents a sector breakdown of funds awarded for programs listed in Table 1-3 that are currently reporting energy savings. Table 1-4 does not include those programs that have not yet begun offering incentives and programs for which beneficiaries cannot be identified by sector (*i.e.* clean generation[5]).

[5] The wind power projects benefit multiple sectors.

Table 1-4: Sector Distribution of Funds Awarded for Programs Reporting Energy Savings

	Comm.	Indust.	Govt.	Inst.	Non-Profit	Multi-family	Resid.	Low-Income
Energy Services Industry Programs								
Standard Performance Contract	32%	36%	10%	21%	0%	1%	NA	NA
Institutional Performance Contracting Assistance	NA	NA	NA	100%	NA	NA	NA	NA
Market Transformation Programs								
New Construction	34%	6%	9%	44%	0%	7%	NA	NA
Premium Efficiency Motors	67%	33%	NA	NA	NA	NA	NA	NA
Loan Fund	45%	31%	NA	NA	NA	13%	7%	NA
Geothermal Heat Pumps (C/I Innovative Opportunity)	19%	0%	16%	31%	12%	22%	NA	NA
Resid. Appliance and Light & ENERGY STAR® Awareness	NA	NA	NA	NA	NA	NA	100%	NA
Keep Cool Program	NA	NA	NA	NA	NA	NA	100%	NA
Technical Assistance Programs								
Technical Assistance	21%	16%	15%	41%	3%	4%	NA	NA
Cooling Recommissioning	70%	25%	0%	5%	0%	0%	NA	NA
Low-Income Programs								
Direct Installation	NA	NA	NA	NA	NA	NA	NA	100%[1]
Total								
All Programs	27%	21%	8%	28%	<1%	3%	9%	4%

NA - Not Applicable

[1] Approximately 90% of the funds awarded under the Low-Income Direct Installation program have been provided to low-income multifamily buildings. The remaining 10% will benefit low-income residents living in one- to four-family homes.

Electricity Savings by Individual Programs. Anticipated electricity and demand savings are shown in Table 1-5 for individual programs.[6] For programs with measurable progress, the projections for full subscription were based on activity through December 31, 2000. For the remaining programs, *i.e.*, programs not yet reporting measurable progress, projections for full subscription were based on the amount of funding and type of services offered.

[6] For a detailed summary of the methodology used to calculated these electric and demand savings see the *September 2000 New York Energy $mart℠ Program Interim Evaluation and Status Report*, Table 4-7; page 4-30.

Table 1-5: Anticipated Annual kWh (in millions) and Peak Demand Savings

	From Funds Awarded		From Full Subscription	
Energy Services Industry Programs	kWh	Demand Savings	kWh	Demand Savings (MW)
Standard Performance Contract	233.3	49.0	243.6	50.9
Institutional Performance Contracting	73.7	15.5	81.3	17.0
Market Transformation Programs				
New Construction	38.1	13.6	38.1	13.6
Premium-Efficiency Motors	0.7	0.15	6.5	1.4
HVAC	–	–	6.0	4.1
Small Commercial Lighting	–	–	42.2	13.7
Residential Appliance & Lighting,	23.2	2.7	33.8	4.0
Keep Cool	0.15	0.2	2.0	2.9
Residential New Construction	–	–	TBD	2.2 (2)
Residential Building Performance	–	–	1.2	6.5 (2)
Loan Fund	TBD	TBD	35.2	11.8
Multi-Family Loan Fund Demonstration	–	–	4.0	0.9 (2)
Technical Assistance Programs				
C/I Technical Assistance	224.2	46.9	247.5	51.7
Cooling Recomissioning	57.0	11.1	57.0	11.1
Residential Comprehensive Energy Management	–	–	1.6	4.0
Low-Income Programs				
Low-Income Direct Installation	4.7	0.5	13.8	1.4
Other Low-Income Programs*	–	–	TBD	3.4 (2)
R&D Programs				
Wind	66.3	TBD	66.3	TBD
PV	1.4	0.4	1.4	0.4
Total for all programs	**722.7**	**140.2**	**881.6**	**200.5**

(1) Unless noted otherwise, demand reductions for the energy efficiency programs are based on the load profiles of specific energy efficiency end-use measures and derived from the kWh savings.

(2) Demand savings were estimated to be 1kW per $1,000 of incentives.

* Includes the Technical Assistance for Publicly-Assisted Housing program and the Affordable Assisted Housing program.

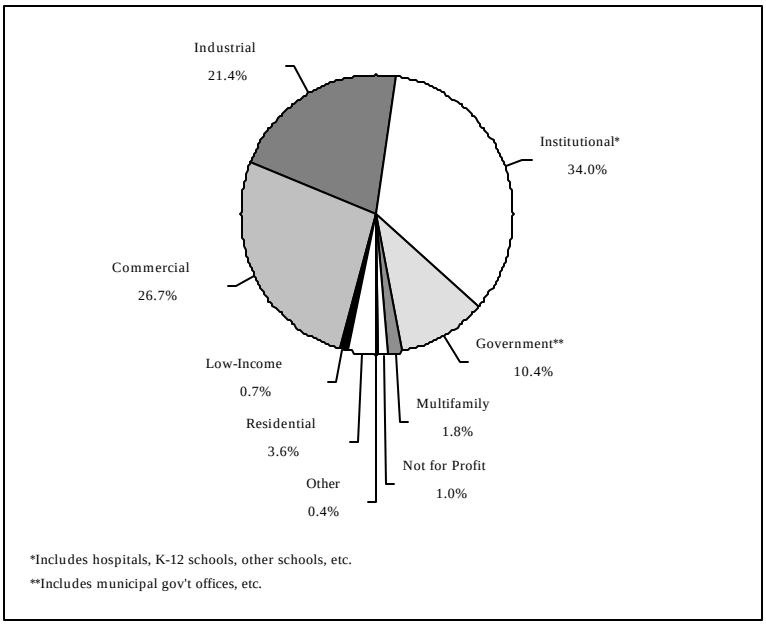
– Program not yet reporting measurable progress.

TBD: To be determined.

Total electricity savings from funds awarded to date are 655 million kWh annually. The projected electricity savings from full **New York Energy $mart℠** program subscription is 814 million kWh annually. In addition, 68 million kWh of clean energy from wind and PV will displace fossil-fueled electricity generation. The anticipated peak demand reduction is 140 MW from funds awarded and 200 MW from full subscription of the three-year budget.

Distribution of Electricity Savings by End-Use Sector. The distribution of annual electricity savings by end-use sector from funds awarded to date is shown in Figure 1-6. The analysis of savings by sector excludes kWh savings from wind and photovoltaic (PV) since these technologies displace fossil-fueled electric generation and do not reduce total electricity use in the State. There are no major changes in sector distribution since the last report.

Figure 1-6: Distribution of Annual kWh Savings by End-Use Sector



Electricity Savings by Measure. Annual kWh savings by measure from funds awarded for selected commercial and industrial (C/I) programs is presented in Table 1-6. Anticipated electricity savings from the various Technical Assistance programs that fund audit and technical studies, *e.g.*, Institutional Performance Contract Assistance program, are not included in this table due to uncertainty of the measures likely to be installed.

The kWh savings from C/I measures is shown graphically in Figure 1-7. The distribution of savings is consistent with the distribution shown in the last quarterly report. Overall, motors and variable speed drives (VSD's) account for about 42% of the kWh savings, followed by lighting (31%), and cooling and chillers (17%). The kWh distributions by measure are based on current program activities and might change within programs as program experience is gained. In addition, the distribution will likely change as new programs, *e.g.*, C/I HVAC program, become operational.

Table 1-6: Annual kWh Savings by Measure for Funds Awarded from Selected C/I Programs (in million kWh)

	Motors/VSDs	Cooling	Chillers	Heating	Other HVAC	Geothermal	Lighting	Bldg Shell	Bldg Controls	Other	Total
Standard Performance Contract Program	114	40					79			1	233
New Construction	5	4	11	1	1	7	5	1	3		38
Premium Efficiency Motors	0.7										0.7
Geothermal Heat Pumps						0.02					0.02
Cooling Recommissioning	17	3					20		6	11	57
TOTAL	137	46	11	1	1	7	104	1	9	12	329

Electricity savings by measure for programs serving the residential sector (including Low-Income) is presented in Table 1-7. The total kWh savings by measure, for these programs, is shown in Figure 1-8. This distribution is consistent with that shown in the last quarterly report.

Figure 1-7: Annual kWh Savings by Measure: C/I Programs

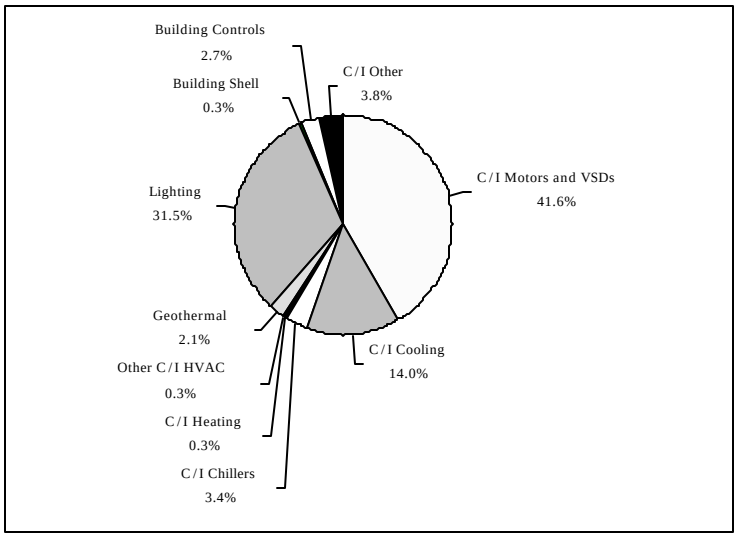
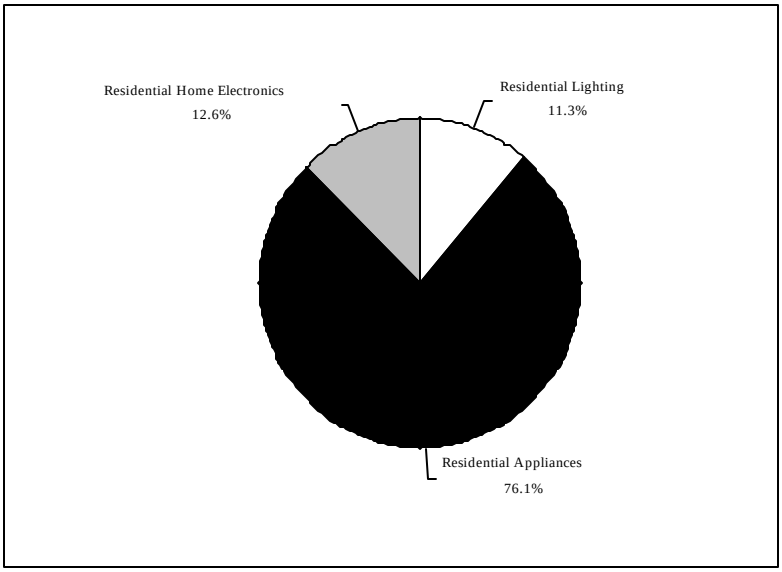


Table 1-7: Annual Electric Savings by Measure: Residential Programs (in million kWh)

Program	Lighting	Appliances	Home Electronics	Total
Residential Appliance & Lighting and ENERGY STAR® Awareness	0.8	18.8	3.5	23.2
% of total for program	3.5%	81.4%	15.2%	100%
Keep Cool Program	n/a	0.15	n/a	0.15
% of total for program	n/a	100%	n/a	100%
Low-Income Direct Installation	2.35	2.35	n/a	4.7
% of total for program	50%	50%	n/a	100%
TOTAL	3.2	21.3	3.5	28
% of total	11.3%	76.1%	12.6%	100%

Of the approximately 28 million kWh of electricity savings, residential appliances account for about 76% of the savings, followed by home electronics (12.6%), and lighting (11.3%).

Figure 1-8: Annual kWh Savings by Measure: Residential Programs



Electricity Savings by Utility Service Area. The distribution of annual electricity savings by utility service area is listed in Table 1-8 by individual programs. The overall distribution of electricity savings by utility service area is depicted in Figure 1-9. The distribution, although largely unchanged since the last report, is expected to change in the future as programs targeting smaller commercial customers (*i.e.* Small Commercial Lighting program) and as various residential and low-income programs are expanded.

Table 1-8: Distribution of kWh Savings by Utility Service Area

	CHG&E	ConEd	NYSEG	NMPC	O&R	Multiple	Total
Programs							
Standard Performance Contract	3.1	64.1	28.1	136.8	1.3	0	233.3
% of total for program	1%	27%	12%	59%	1%	0%	100%
Inst. Performance Contract	6.6	7.2	17.2	37.1	5.6	0	73.7
% of total for program	9%	9.7%	23%	50%	8%	0%	100%
Market Transformation Programs							
C/I New Construction	0.07	10.2	3.9	22.6	1.2	0	38.1
% of total for program	0%	27%	10%	59%	3%	0%	100%
Premium Efficiency Motors	0.003	0.05	0.09	0.35	0.02	0.17	0.7
% of total for program	0%	8%	13%	51%	4%	25%	100%
Residential Appliances &	0.98	6.2	8.4	4.5	3.1	0	23.2
% of total for program	4%	27%	36%	20%	13%	0%	100%
Keep Cool Program	0.02	0.07	0.03	0.03	0	0	0.15
% of total for program	14%	50%	19%	17%	0%	0%	100%
Technical Assistance Programs							
Technical Assistance C/I	15.6	85.3	26.7	77.6	5.4	13.7	224.2
% of total for program	7%	38%	12%	35%	2%	6%	100%
Cooling Recommissioning	1.1	31.4	5.1	19.4	0	0	57
% of total for program	2%	55%	9%	34%	0%	0%	100%
Low-Income Programs							
Low-Income Direct Installation	0.4	4.2	n/a	n/a	0.13	n/a	4.7
% of total for program	9%	88%	n/a	n/a	3%	n/a	100%
SBC Portfolio Total	28	208.6	89.7	298.1	16.7	13.8	655
% of total	4%	32%	14%	46%	3%	2%	100%

(1) Totals may not sum due to rounding.

Other Fuel Savings. Some **New York Energy $mart℠** programs provide energy audits and design assistance that identify energy savings for fuels other than electricity. Natural gas and oil savings identified through programs are reported in Table 1-9 by program. More than 2.4 TBtu of natural gas savings and 751,000 mmBtu of oil savings are expected to be realized.

Figure 1-9: Annual kWh Savings by Utility Service Area

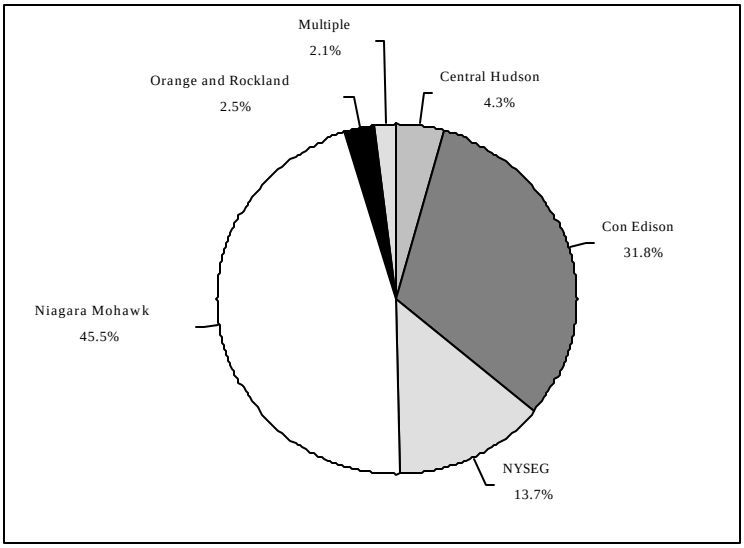


Table 1-9: Natural Gas and Oil Savings From Funds Awarded

	Natural Gas		Oil	
	mmBtu	**($ Millions)**	**mmBtu**	**($Millions)**
C/I Technical Assistance Programs	2,241,500	$12.5	747,167	$3.2
Geothermal Heat Pump Project	166,041	$1.0	4,553	$0.02
Total	2,407,541	$13.5	751,719	$3.2

Environmental and Economic Benefits. Air emission reductions are expected to result from the electricity savings, natural gas and oil savings, and clean generation taking place under the **New York Energy $mart℠** program. Reductions in nitrogen oxide (NOx), sulfur dioxide (SO_2), and carbon dioxide (CO_2) emissions are presented in Table 1-10 for programs that are currently operational and report energy savings. These reductions are based on annual electricity savings of 655 million kWh, natural gas and oil savings of approximately 3.2 tBtu's, and clean generation (from wind and PV) of 68 million kWh. Collectively, the annual CO_2 reduction is equivalent to removing about 100,000 automobiles from New York's roadways.[7] The cost savings from reduced energy use (from electricity, oil and natural gas) is expected to lead to the creation of over 1,700 jobs in New York's service and retail trade sectors.[8]

[7] Statewide tonnage caps on sulfur dioxide and nitrogen dioxide emissions from electricity generation sources limit the impacts of reduced electricity use on actual emission of these pollutants. However, reduced electricity use does result in lower environmental compliance costs for generation sources.

[8] These jobs will be supported annually for as long as the implemented energy efficiency measures remain in effect.

Table 1-10: Emission Reductions from Programs Currently Report Energy Savings (in tons)

Primary Pollutant	From Electricity Savings	From Oil and Natural Gas Savings	From Clean Generation: Wind & PV	All Sources
NOx	491	165	51	708
SO_2	989	86	102	1,178
CO_2	288,896	202,730	29856	520,483

The emission reductions expected once budgets are fully expended, are shown in Table 1-11. These emission reductions are based on projected annual electric savings of 814 million kWh, 3.5 tBtu of oil and natural gas savings, and 68 million kWh of clean generation. The combined annual CO_2 emission reductions are equivalent to removing about 128,000 automobiles from the road. The cost savings from reduced energy use (for electricity, oil and natural gas) are expected to lead to the creation of about 2,100 jobs in New York's service and retail trade sectors once program funds are fully subscribed.

Table 1-11: Projected Emission Reductions by Program End (in tons)

Primary Pollutant	From Electricity Savings	From Oil and Natural Gas Savings	From Clean Generation: Wind & PV	All Sources
NOx	610	205	51	866
SO_2	1,229	125	102	1,456
CO_2	358,930	251,452	29,856	640,239

Customers Served

Table 1-12 reports the estimated number of customers served or impacted by the **New York Energy $mart℠** programs with a description of the service or benefit provided. Customers are served or impacted at different levels, some more directly than others. For the purposes of this discussion, customers are defined as those individuals who are directly receiving funding support for energy efficiency measures or services, or any individual whose purchasing practices have been impacted by the programs offered.

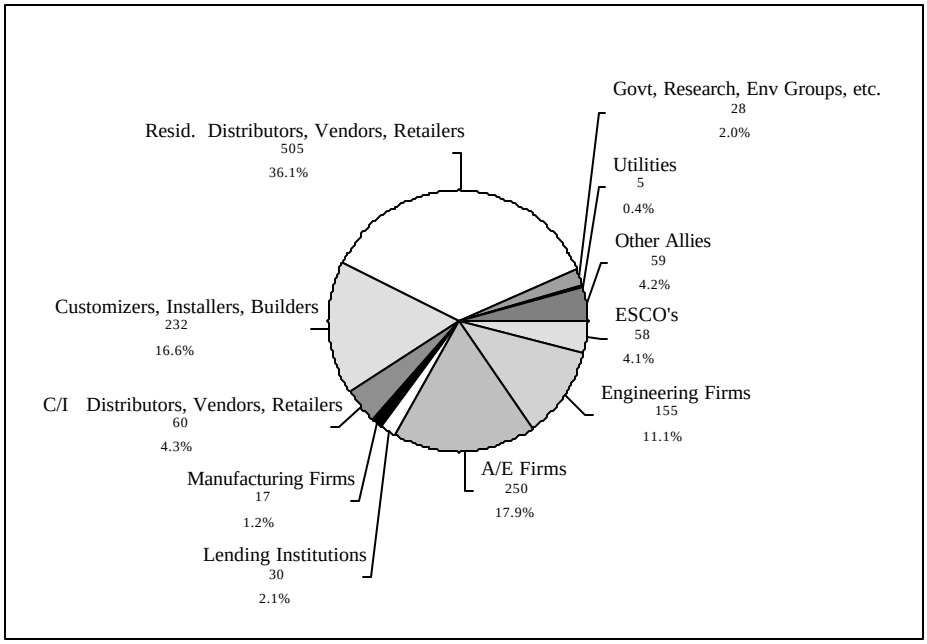
Table 1-12: Customers Served or Impacted by New York Energy $mart℠

Program	No. of Customers	Description of Customer Count
Standard Performance Contract	257	Number of participating facilities receiving incentives for implementing efficiency measures in customer facilities.
Institutional Performance Contracting Assistance	146	Number of participating facilities receiving co-funding for Comprehensive Energy Audits.
C/I New Construction	280	Number of participating facilities receiving co-funding for measures and technical assistance.
Loan Fund	37	Number of participating borrowers receiving reduced interest financing for energy efficiency measures.
Premium Efficiency Motors	938	Number of CEE-qualified premium efficiency motors sold for which vendor incentives were provided.
Innovative Opportunities: C/I Geothermal Heat Pump	28	Number of participating facilities receiving design assistance for geothermal heat pumps.
Innovative Opportunities: Residential	~20,000	Residential customers who have received home energy audit CDs through various means of distribution. There were also more than 11,000 user sessions on the on-line home energy audit tool.
Residential Appliances & Lighting	250,000	The increase in the sale of ENERGY STAR® appliances and home electronics within eligible geographic areas. These sales are estimated to have increased by about 250,000 products since the program began. Customers purchasing these products may have been exposed to TV, radio, or print ads, or heard about the benefits of ENERGY STAR® through participating retailers.
Energy Star® Marketing Campaign	2,013	Number of halogen torchieres surrendered at trade-in events for which customers received a $10 discount on the purchase of a new ENERGY STAR® torchiere. There are also millions of individuals impacted by the mass-media advertising campaign.
Keep Cool Program	721	Number of residential old air conditioners turned in as of December 31, 2000. By that same date, 674 new ENERGY STAR® air conditioners had been purchased under the $75 bounty offer.
Technical Assistance	620	Number of participating facilities receiving 50% co-funding for energy audits.
Cooling Recommissioning	73	Number of participating facilities receiving cofunding for studies to identity peak reduction measures and for cost of measures.
Low-Income Direct Installation	7,350	Number of residential units being served by the program. A total of 3,460 units (within 75 multifamily buildings and 271 small homes) have been considered for electric measures. Applications for an additional 3,890 units have been approved, bringing the total number of participating units to 7,350. Also, more than 3,400 low-income residents have received information on improving energy efficiency in the home.
Photovoltaic Programs	11	Customers in the PV on Buildings program. The participants receive about $5000 per kW. The size of the projects range from 40 to 260 kW.
TOTAL	282,474	

Program Allies

Nearly 1,400 allies are currently participating in the **New York Energy $mart℠** program. Program allies are organizations or individuals that have a material interest in the **New York Energy $mart℠** program, including implementation contractors (assisting in the development of programs, outreach, and other program activities), and contractors performing facility audits or selling and installing measures.

Figure 1-10: New York Energy $mart℠ Program Allies by Type



The number of participating allies has risen from 1,028 since the last report. The percentage of participating allies by type is presented in Figure 1-10.[9]

External Funding

The **New York Energy $mart℠** program has attracted significant private funding, including matching funds and new private investment, as illustrated in Table 1-13 for those programs that are currently operational and are known to have external contributions. The combined private sector investment, based on current program activity, is $426 million, up from $351 million reported last quarter. The ratio of private spending to **New York Energy $mart℠** program funding is approximately 3.5 to 1, meaning that for every $1 of **New York Energy $mart℠** funds spent, $3.5 is spent or invested by program participants. There has been no significant change in the ratio of private spending to **New York Energy $mart℠** funding since the last report.

[9] Customer counts provided earlier are tracked independently from program allies since customers have little continuing interest in a program, except to the extent that they refer other customers to the programs, once they are served. Program allies have a continuing interest in programs and their participation is critical to helping to transform markets to higher levels of efficiency.

Table 1-13: Private Funding Contribution for Currently Operational Programs

		[1] **Funds Awarded ($ million)**	[2] **Anticipated External Spending ($ million)**	[3] **Ratio of External Spending to New York Energy $mart℠ Funds**
Energy Services Industry				
Standard Performance Contract		$38.7	$101.4 (1)	2.6:1
Institutional Performance Contracting Assistance		$2.9	$45.6 (2)	15.5:1
Market Transformation				
New Construction		$16.6	$15.0 (3)	0.9:1
Premium Efficiency Motors		$0.95	$0.17 (3)	0.2:1
New York Energy $mart℠ Loan Fund		TBD	TBD	TBD
Residential Appliance & Lighting and ENERGY		$11.8	$13.7 (4)	1.16:1
Keep Cool Program		$3.9	$0.25 (5)	0.1:1
C/I Innovative Opportunities	Geothermal Heat Pump project	$0.32	$31.2 (6)	97.5:1
	Other Innovative Opportunities	$2.3	$0.3	0.1:1
Technical Assistance				
Cooling Recommissioning Program		$3.4	$0.84	0.2:1
C/I Technical Assistance Programs		$8.9	$134.8 (2)	15:1
Low-Income				
Direct Installation		$4.2	$1.3 (7)	0.3:1
Research and Development				
Renewable	Wind	$7.3	$31.2	4.3:1
	PV	$5.0	$5.1	1:1
	Willow Plantation	$0.9	$16.0	17.8:1
Environmental Monitoring, Evaluation and		$6.9	$7.7	1.1:1
Energy Eff. & Strategic R&D		$9.0	$21.7	2.4:1
Total		**$123.1**	**$426.3**	**3.5:1**

(1) Estimated full cost of measures less SBC funding.
(2) Estimated full cost of measures assuming 2/3 of the audit recommendations are implemented.
(3) Estimated incremental cost of upgrading to higher-efficiency measures less SBC funding.
(4) Includes: (a) estimated incremental cost of ENERGY STAR® products for the reported increase in ENERGY STAR® product sales following the start of these programs, (b) advertising spending by participants, (c) the value of public service announcements and free media promotions, and (d) the value of torchieres purchased as a result of trade-in events less SBC funding.
(5) Estimated cost new ENERGY STAR® air conditioners purchased less SBC funding.
(6) Estimated full cost of recommended heat pumps assuming an implementation rate of 2/3 for the 35 planned studies.
(7) Estimated contribution by the Weatherization Assistance Program (WAP) and participating building owners toward cost of electric reduction measures. Under the WAP program, additional investment in heating-related measures in these buildings totals more than $5 million.

SELECTED PROGRAM UPDATES

Energy Efficiency Programs

Peak Load Reduction. The Program Opportunity Notice (PON) for the Peak-load Reduction program was released in January, 2001. This $12.4 million program will co-fund short-duration load-curtailment measures, permanent demand reduction efforts, and equipment and software necessary for critical dispatch of emergency generation. The emergency generation component of the program will facilitate customer participation in the New York Independent System Operator's (NY ISO) Emergency Demand Response Program (EDRP).[10]

Proposals for the Enabling Technology for Price Sensitive Load Management program were reviewed in February 2001. The projects selected will fund communications technologies that will enable end-use customers to participate in the NY ISO's emergency curtailment and price-responsive load programs that are expected to be in place by June 1, 2001.

The Cooling Recommissioning program, a peak reduction program initiated in the summer of year 2000 has 180 projects, 73 completed engineering studies, and 55 projects in the measures installation stage.

The Residential Keep Cool program encourages customers to turn in their old room air conditioners by offering them a $75 coupon toward the purchase of a new ENERGY STAR® unit. NYSERDA will build on experience gained last summer through this program and also work with the Long Island Power Authority (LIPA) to expand delivery of the bounty program. LIPA has committed up to $2 million for NYSERDA's Keep Cool contractors to implement the program on Long Island. A coordinated effort is seen as mutually beneficial since LIPA will leverage the existing infrastructure and program design established by NYSERDA, and NYSERDA will be able to offer a statewide program.

C/I New Construction. There are 280 active project applications, representing 32.7 million square feet of floor area. New project application rate is in excess of 30 per month. Savings of over 4 MW and 12.2 million kWh have been identified in 64 encumbered projects. As of January 1, 2001, TP-1 ENERGY STAR® low-voltage transformers have been added to the list of pre-qualified measures. A pending solicitation will include incentives for solar, daylighting and PV installations.

Residential Lighting Catalog. Through the Residential Appliances & Lighting program, customers were provided discounted prices on compact flourescent bulbs and lighting fixtures through the

[10] The EDRP is a voluntary electricity curtailment program, available to NY ISO customers between May 1 and October 31, 2001. If called upon, participants will be paid higher of $500 per MWh or the Real-time zonal clearing price.

ENERGY STAR® Lighting Solutions Catalog. The catalog was developed in conjunction with the Wisconsin Energy Conservation Corporation (WECC), Good Earth, Phillips, Harmony, and General Electric Lighting. By leveraging existing efforts, NYSERDA was able to develop and mail the catalog to customers for less than the cost of a 33-cent stamp. The offer began in December 2000 and will run through April 2001. By the end of February 2001, gross sales reached $460,862, consisting of approximately 35,000 compact flourescent bulbs, 1,100 replacement lamps, 1,200 interior fixtures, 120 exterior fixtures, and 960 torchiere lamps. The cost of these lighting products was discounted between 30%-70%. To date, $229,549 of SBC funding has been used to buy down the prices and lower the costs to end-use consumers. Demand for lighting products promoted through the Lighting Catalog have far exceeded expectations.

Technical Assistance. Five programs, consisting of Energy Feasibility Studies, Energy Operations Management, Rate Analysis and Aggregation, FlexTech, and Energy Audit Pilot programs have initiated 620 studies, up from 521 last quarter. Of the studies initiated, 208 have been completed, up from 144 last quarter.

Residential Comprehensive Energy Management. This program, now available to customers, funds a portion of the cost of installing advanced meters and load management systems. All owners of 1-4 family and multi-family dwellings are eligible to participate. The implementation contractor for this program has estimated the following cumulative 5-year savings: $10 million of cost savings, 40 million kWh of energy savings, 36 MW of reduced demand, 4 MW of reduced peak demand.

Low-Income Programs

Direct Installation. Work under the Low-Income Direct Installation program is progressing. During the last quarter, more than 400 units have been considered for electric reduction measures, bringing the total number of units considered up to 3,460. As of December 31, 2000, more than 1,600 refrigerators, 9,500 CFLs, and 5,200 hard-wired fluorescent fixtures have been installed within individual units. An additional 2,500 common area and outdoor lighting fixtures have been installed in low-income buildings.

Public Awareness. A competitive solicitation was completed for the Low-Income Public Awareness program in December 2000. Contract negotiations are underway and the program will soon commence. NYSERDA's fundamental objective for this program is to inform low-income persons and State and community-based organizations of the services and options available to them under the low-income programs offered by NYSERDA.

Publicly Assisted Housing. In October 2000, NYSERDA signed a contract for implementation of the Technical Assistance for Low-Income Publicly Assisted Housing program. This program will increase affordability of housing for low-income residents by improving energy efficiency and energy

management in the State's portfolio of publicly-assisted housing. By mid-March 2001, more than 60 buildings (representing over 31,000 units) had been entered into the program. Three audits were recently completed and financing packages are being developed. The **New York Energy $mart℠** contribution to the planned work is expected to range from 5-50% of the total costs.

R&D Programs

Wind. The wind power plant in Madison began commercial operations on October 12, 2000. The plant is expected to produce 24,000 MWh of electricity annually. During the months of October, November, and December of 2000, the plant produced a total of 5,355 MWh of electricity. Kinko's Inc., a chain of copy stores announced that it would buy up to 4,500 MWh of Pure Wind certificates each year in a multi-year deal. National Resources Defense Council also announced it would purchase the certificates for its New York City office. These certificates correspond to the environmental attributes associated with equivalent amounts of wind-generated electricity delivered to the grid. Approximately 100 1-MWh certificates were sold over the Internet through year-end 2000 at $40 each.

The solicitation for the Wind Prospecting Development program has resulted in four approved projects totaling nearly $600,000. The goal of this program is to lay the groundwork for wind development projects by collecting and analyzing site specific data on wind resources, interconnection costs, and environmental impacts for 15 to 22 sites across New York State, each with a minimum of 10 MW capacity.

Environmental Monitoring and Evaluation Program (EMEP). A solicitation was released in March 2001 for $1 million to fund ongoing, critical, environmental monitoring and analysis projects as well as new environmental monitoring initiatives. The next EMEP conference entitled Environmental Monitoring, Evaluation and Protection in New York: Linking Science and Policy will be held September 24-25, 2001 in Albany.

CONCLUSION

This Section has presented the implementation status of the **New York Energy $mart℠** program through December 31, 2000. The next section of this report summarizes NYSERDA's ongoing activities for evaluating the **New York Energy $mart℠** program.

Section 2

EVALUATION ACTIVITIES UPDATE

INTRODUCTION

This section provides a summary of current and upcoming activities for the evaluation of the **New York Energy $mart℠** program. The following is a list of these activities.

Electricity Savings Review. NYSERDA's evaluation assistance contractor, GDS Associates, is leading an effort to review the methods being used to determine electricity and demand savings for **New York Energy $mart℠** programs. This task was initiated in the fall of 2000. To date, one review has been completed for the Premium Efficiency Motors program, and a draft of the Residential Appliances and Lighting and Keep Cool programs is under review. Overall, GDS has found that NYSERDA is estimating energy and demand savings in a reasonable manner that is consistent with the body of knowledge in the area. As of this writing, additional reviews have been initiated for the C/I New Construction program, the Wind projects, Low-Income Direct Installation program, Standard Performance Contract program, Institutional Performance Contracting program, and the Technical Assistance programs. In the next few months, reviews will begin for the technical assistance programs.

Benefit/Cost Assessment. A benefit/cost (B/C) assessment of the **New York Energy $mart℠** program will be conducted in the upcoming months. The B/C assessment will be conducted at the measure level, the program level, and the entire **New York Energy $mart℠** program level. The benefits will include the present value cost savings (spread out over life of the measures) from kWh savings, demand savings, and quantifyable non-energy savings associated with individual measures over their useful life. This evaluation activity will include (1) estimating the market effects of identified programs; (2) determining peak demand reduction and associated cost savings by utility service area; and (3) determining program-wide environmental and economic benefits.

Causality Assessment. A methodology is being developed and reviewed to address how program outcomes can be attributed to **New York Energy $mart℠** program activities. The methodology will address how different sources and types of evidence can be used to assess both the direct and indirect effects that implementation activities have had on market changes (*i.e.* including changes in supplier and customer behaviors; market development; and fostering a sustainable infrastructure for energy-efficient products and services). Analysis will include comparisons of market data in several markets to assemble the preponderance of evidence criteria for the **New York Energy $mart℠** causality evaluation.

Portfolio Case Study. A case study, capturing the synergies that exist between **New York Energy**

$mart℠ programs is in its planning phase. The study will describe how different programs work together to serve market participants and address market transformation objectives. Oak Ridge National Laboratory will apply a portfolio-level evaluation methodology conceptualized by NYSERDA in its conduct of this case study.

Evaluation Surveys. A number of surveys will be implemented in the upcoming months.

- A survey will be designed and implemented for **New York Energy $mart℠** Residential Appliance and Lighting program with particular focus on recipients of the "ENERGY STAR® Lighting Solutions" catalog. The lighting catalog has been successful in promoting ENERGY STAR® lighting products as well as increasing their promotion and sale. In fact, the catalog has received such high participation that demand for the energy-efficient lighting products featured has outstripped supply thus far in the short-term. The survey, anticipated to have an early Summer 2001 release, will measure customer participation, awareness, satisfaction, and buying patterns, so that future program initiatives can be directed accordingly. As with all survey's being conducted by NYSERDA, elements to assess causality will be incorporated within survey instruments, where appropriate.

- Non-participating lenders of the **New York Energy $mart℠** Loan Fund program will be surveyed to better understand any organizational or market barriers that are preventing these lenders from participating in the program. Results will help program managers to enhance their existing outreach and implementation activities.

- A study to determine rate of implementation and cost savings attributable to the Technical Assistance programs is under development.

- A customer survey measuring customer perceptions and non-energy benefits associated with the direct installation of energy efficient lighting from the Direct Install program is currently being implemented by the program contractor.

Market Characterization. To assess the individual and broader markets that the **New York Energy $mart℠** programs are operating within, activities are underway to compile results from market assessment and baseline studies that have been conducted so that gaps in end-user segments and markets may be identified. Once gaps are identified, additional information that is necessary to fully characterize each of the markets will be obtained, in priority order as resources permit, through targeted research efforts. Results will be presented in the Draft September 2001 and the subsequent December Evaluation and Status Reports.

Coordination with LIPA. NYSERDA is coordinating its evaluation activities with those of the Long Island Power Authority's (LIPA) energy-efficiency programs. Coordination is expected to result in shared methodologies and other improvements for the respective programs. As mentioned in

Section 1, NYSERDA and LIPA are also collaborating on program implementation for the Keep Cool (Air Conditioner Bounty) program this summer.

SBC II Evaluation. In response to the January 26, 2001Public Service Commission (PSC) order expanding the duration and funding for public benefits programs,[1] NYSERDA developed and submitted a SBC Operating Plan[2] to the PSC staff. The plan presents an outline of SBC II evaluation goals and activities.

EVALUATION SCHEDULE

The evaluation reporting schedule through December 2001 is presented in Figure 2-1. The Second Interim **New York Energy $mart℠** Evaluation and Status Report will be released in December 2001. This report will close out the reporting of SBC I funding activities, while including SBC II results.

CONCLUSION

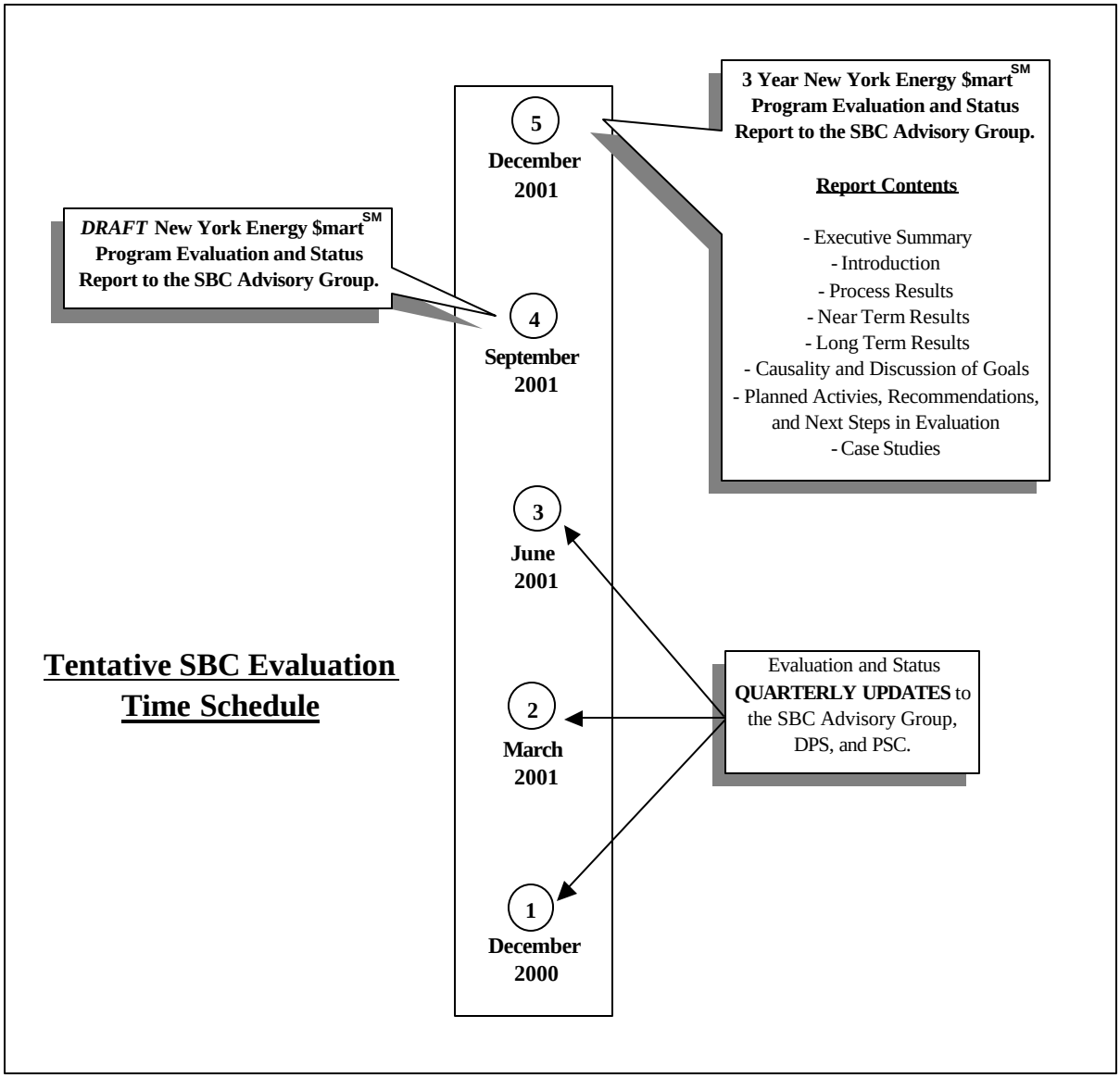
The on-going and new evaluation activities of the **New York Energy $mart℠** program outlined within this section have been designed to:

- Identify and measure the influence the **New York Energy $mart℠** programs and interventions have on the markets in which they operate.
- Understand the strengths and weaknesses associated with designing, developing, deploying and evaluating the **New York Energy $mart℠** portfolio of programs
- Identify whether program interventions have caused sustainable changes in the infrastructure for energy efficiency products, services, technologies, or behaviors.
- Measure the potential and realized electric savings achievable and achieved through tailored program interventions.
- Coordinate evaluation activities with other stakeholders to improve program design, implementation and evaluation efforts.

[1]State of New York Public Service Commission. January 26, 2001. CASE 94-E-0952 - In the Matter of Competitive Opportunities Regarding Electric Service. *"Order Continuing and Expanding the System Benefits Charge for Public Benefit Programs"*.

[2]New York State Energy Research and Development Authority (NYSERDA). *System Benefits Charge: Proposed Operating Plan for the **New York Energy $mart℠** Programs (2001-2006)*. February 15, 2001.

Figure 2-1: Tentative Evaluation Time Schedule Through December 2001



As the **New York Energy $mart℠** portfolio of energy efficiency, low-income, and research and development programs continue to progress through the solicitation, design, and deployment stages, quarterly progress updates will be issued. Future evaluation activities, as well as those outlined within this Section, will continue to objectively collect, measure, and report on process and progress changes for the **New York Energy $mart℠** portfolio of programs.