COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENERGY AND TELECOMMUNICATIONS

ELECTRIC RESTRUCTURING PLAN OF  
CAMBRIDGE ELECTRIC LIGHT COMPANY  
COMMONWEALTH ELECTRIC COMPANY AND  
CANAL ELECTRIC COMPANY

D.P.U./D.T.E 97-111

Direct Testimony of  
Timothy Woolf

On Behalf of  
The Cape and Islands Self-Reliance Corporation

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Exhibit TW-1: Resume of Timothy Woolf
I. INTRODUCTION AND QUALIFICATIONS

Q. What is your name, position and business address?
A. My name is Timothy Woolf. I am a Senior Associate at Synapse Energy Economics, Inc, 22 Crescent Street, Cambridge, MA 02138.

Q. Please describe Synapse Energy Economics.
A. Synapse Energy Economics is a consulting firm specializing in electricity industry restructuring, regulation and planning.

Q. Please describe your experience in the area of electric utility restructuring, regulation and planning.
A. My experience is summarized in my resume, which is attached as Exhibit TW-1. Electric power system planning has been a major focus of my professional activities for the past sixteen years. In my current position at Synapse, I have been primarily responsible for investigating consumer and environmental protection issues related to the restructuring of the electric industry.

Q. Please describe your professional experience before beginning your current position at Synapse Energy Economics.
A. Before joining Synapse Energy Economics, I was the Manager of the Electricity Program at Tellus Institute, a consulting firm in Boston, Massachusetts. In that capacity I managed a staff that provided research, testimony, reports and regulatory support to state energy offices, regulatory commissions, consumer advocates and environmental organizations in the US. Prior to working for Tellus Institute, I was employed as the Research Director of the Association for the Conservation of Energy in London, England. In that position, I was responsible for researching and promoting least-cost utility planning regulations and energy efficiency programs in the United Kingdom and in Europe. Prior to that, I was a Staff Economist at the Massachusetts Department of Public Utilities, where my responsibilities included drafting the state’s integrated resource planning regulations, researching and developing demand-side management policies, evaluating utility demand-side management programs, and reviewing electric
utility rate cases. In 1993 I earned a Masters in Business Administration from Boston University.

Q. On whose behalf are you testifying in this case?
A. I am testifying on behalf of the Cape and Islands Self Reliance Corporation.

Q. Have you testified previously in this docket?
A. No, I have not.

Q. What is the purpose of your testimony.
A. The purpose of my testimony is to review the energy efficiency and renewable resource programs contained in Commonwealth Electric Company’s (COM/Electric or the Company) restructuring plan, and to discuss the extent to which these programs comply with the requirements of the Massachusetts restructuring law. My testimony focuses on the role that municipal governments can play in implementing DSM programs through funds raised by the energy efficiency charge.

Q. How is your testimony organized?
A. My testimony is organized as follows:
Section I. Introduction and Qualifications;
Section II. Summary of Conclusions and Recommendations;
Section III. Delivering DSM Through Municipal Governments;
Section IV. Energy Efficiency Programs in COM/Electric’s Restructuring Plan;
Section V. DSM Cost-Effectiveness in a Restructured Electricity Industry;
Section VI. The Process for Disbursing Energy Efficiency Funds;
Section VII. Renewable Resources.

II. SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

Q. Please summarize your primary conclusions and recommendations.
A. My primary conclusions and recommendations are summarized as follows:

1. COM/Electric’s restructuring plan does not fully comply with the requirements of the Massachusetts restructuring law, because it contains provisions that are anti-competitive and not in the public interest. The
Company’s proposed restructuring plan does not contain sufficient information to determine whether the proposed DSM programs are likely to be cost-effective or to be obtained using sufficiently competitive procurement practices. For these reasons, I recommend that the Department reject the Company’s proposed restructuring plan.

2. The Company is currently preparing a five-year energy efficiency plan, to be filed with the Department in two phases, by January 30 (Phase I) and by April 1 (Phase II). The Department should not approve COM/Electric’s restructuring plan until it has had an opportunity to thoroughly review the Company’s forthcoming energy efficiency plan. If the Department decides to give initial approval to COM/Electric’s restructuring plan, it should segregate the energy efficient provisions of that plan, and not approve of those provisions until it has had an opportunity to review the five-year energy efficiency plan.

3. Municipal governments have a much greater interest than electric companies in achieving energy efficiency savings, and do not face the conflicting financial incentives that electric companies face. Municipal governments are therefore much more likely to implement successful, effective DSM programs.

4. Municipal governments are entitled to funds raised by the mandatory energy efficiency charge. The Department should clarify that qualifying municipal governments will be able to receive and expend all of the energy efficiency funds that are collected from all of the electricity customers within their boundaries.

5. The Department should notify COM/Electric that its five-year energy efficiency plan should contain a detailed description of how it will disburse the funds collected from customers through the energy efficiency charge. The description should indicate how the Company plans to set aside funds to allocate to qualified municipal governments. The description should also
indicate how the Company will prevent self-dealing and will disburse the funds using the most competitive process practicable.

6. The Department should clarify the standard that will be used to determine whether municipal DSM programs are cost-effective. In general, the Department should provide municipal governments with greater discretion in evaluating DSM cost-effectiveness than has been provided to electric utilities in the past, because municipal governments are more accountable to ratepayers. The standard should allow municipal governments to (a) measure DSM cost-effectiveness by using the customer’s electricity price as the avoided cost, (b) account for the employment and economic benefits of the energy efficiency savings, and (c) account for the environmental benefits of the energy efficiency savings.

7. COM/Electric’s restructuring plan contains two rate proposals (rate G-1 and rate CEC-1) that contain terms that are likely to pose inappropriate barriers to customers wishing to generate their own electricity through the installation of cogeneration equipment, renewable energy technologies or fuel cells. The Department should not approve of the Company’s proposed rates G-1 and CEC-1, until the Company removes the terms that create these barriers.

III. DELIVERING DSM THROUGH MUNICIPAL GOVERNMENTS

Q. Why is the Cape and Islands Self-Reliance Corporation concerned about the Company’s energy efficiency plan at this time?

A. The Massachusetts restructuring law confirms the authority of municipalities, or groups of municipalities, to aggregate the electrical load of interested customers within their boundaries, and to broker and contract for energy services for those customers (G.L.c.164, §134(a)). In addition, the law allows municipal governments to develop an energy plan that describes how they will implement DSM and renewable energy programs. Once the energy plan is adopted by town meeting, and certified by the Department as being consistent with state energy goals, the municipality may receive and expend monies from the funds raised through a mandatory energy efficiency charge (hereinafter referred to as the
energy efficiency funds) and may apply to the Massachusetts Renewable Energy
Trust Fund (G.L.c.164, §134(b)).

It is my understanding that many towns on Cape Cod are planning to act as load
aggregators for the interested customers within their boundaries, and are
developing energy plans describing how they will implement DSM and renewable
resources. The municipalities on Cape Cod intend to receive financing for these
initiatives from the energy efficiency fund, and to apply for financing from the
Massachusetts Renewable Energy Trust Fund.

Q. What is the main advantage of implementing energy efficiency programs
through municipal governments, as opposed to through electric companies?
A. In general, municipal governments are likely to be more effective than electric
companies in implementing energy efficiency programs because they have a
much greater interest in achieving efficiency savings. This greater interest can
have significant implications for the types and quality of energy efficiency
programs that are implemented through the energy efficiency funds.

Q. Please explain why municipal governments are so interested in energy
efficiency programs.
A. Municipal governments are interested in energy efficiency because of the many
benefits that efficiency offers to their citizens and business. As the Department
has noted, these benefits include lower electricity bills, improved electricity
services, enhanced customer choice, and reduced environmental impacts of
electricity services (MA DPU 96-100, at 183). Reducing electricity bills offers
the additional economic benefits of increasing economic activity and increasing
the number of local jobs. All of these benefits are of both short-term and long-
term significance to municipal governments.

Q. Are electric companies also interested in the benefits of energy efficiency?
Energy efficiency can work directly against the financial interests of electric
companies. In a restructured electricity industry, when electric companies have
divested their generation services, the remaining company will focus their
activities on transmitting and distributing electricity. These electric companies
will continue to be for-profit entities, with the primary goal of selling
transmission and distribution services. Energy efficiency programs will work
directly against these goals by reducing T&D kWh sales, thereby reducing
revenues and profits.

(Some energy efficiency programs can be in a distribution company’s interest, by
providing an opportunity to avoid new T&D investments, reduce maintenance
costs, improve power quality and reduce line losses. However, the distribution
company will always face the conflicting incentive created by the loss of sales
from energy efficiency programs. Unless regulators play a significant role in
providing electric companies with regulatory and financial incentives to pursue
these types of efficiency measures, it is likely that the companies will be more
concerned about the negative financial implications than the potential cost-
reduction benefits of DSM programs.)

Experience with utility-run energy efficiency programs in Massachusetts and
other states demonstrates that in order for electric utilities to be interested in
achieving energy efficiency savings, they need to receive a significant amount of
encouragement from regulators — including Integrated Resource Management
requirements, pre-approval of program costs and designs, the recovery of lost
base revenues, and even the promise of a financial bonus or the threat of a
financial penalty. Municipal governments, on the other hand, need no such
regulatory encouragement, because they have a significant self-interest in
achieving efficiency savings, with none of the financial disincentives. At a time
when the electricity industry is moving away from regulation and toward a more
competitive, open market, it is appropriate for DSM implementation efforts to
rely increasingly upon those entities that do not require regulatory support for
success.

Q. Are there other reasons why municipal governments are likely to be more
effective in delivering DSM programs than electric companies?

A. Yes, there are seven additional reasons why municipal governments are likely to
be more effective in delivering DSM programs than electric companies.
• Municipal governments can use the customer’s electricity price as an avoided cost in determining the amount of DSM that is cost-effective.

• Municipal governments can account for the employment and economic development benefits of energy efficiency savings in determining the amount of DSM that is cost-effective.

• Municipal governments can account for the environmental benefits of energy efficiency savings in determining the amount of DSM that is cost-effective.

• Municipal governments do not require recovery of lost base revenues resulting from the efficiency savings.

• Municipal governments can implement cost-effective “fuel-switching” efficiency programs.

• Municipal governments can implement DSM programs targeted to municipal facilities, in order to reduce their own electricity costs -- thereby freeing up monies that can be used for other municipal programs or to reduce local tax burdens.

• Municipal governments may have better relationships with electricity customers through community-based programs and activities. Municipal governments may also be more in touch with electric customers’ energy efficiency needs and interests, through town meetings and elected representatives.

Q. Please explain why municipal governments can use the electricity price to represent avoided cost in determining whether a DSM program is cost-effective.

A. A municipal government’s primary goal (albeit not the only important goal) in implementing energy efficiency programs is to reduce the electricity bills of the residents, businesses and industries within its boundaries. From this perspective, the “avoided cost” of a DSM program is equal to the amount that the customer’s bill is reduced by the energy efficiency measures -- i.e., the customer’s electricity price times the amount of energy saved. Therefore, in evaluating DSM programs to be delivered by municipal governments, the avoided cost should be the
customer’s electricity price -- as opposed to the sum of avoided generation, transmission and distribution costs as has been done in the past. This approach is consistent with how electricity customers would evaluate DSM programs in an unregulated, fully competitive market for energy efficiency services.

Under current conditions, electricity prices are higher than utility avoided costs. Therefore, municipal governments using electricity price as avoided cost would be able to identify a larger amount of cost-effective energy efficiency savings than if they were using the measure of avoided costs conventionally used by utilities.

Q. Please summarize the employment and economic benefits of energy efficiency programs.

A. Energy efficiency programs can improve local economic development in a number of ways. Reducing the electricity bills of businesses and industries reduces their expenses and increases their net income, making the company more competitive and allowing it lower prices or to invest the freed-up money in additional labor or initiatives to expand the business. Reducing the electricity bills of residential customers will increase their disposable income, allowing them to spend more money in the economy. This increased spending will also have a multiplier effect, where the companies receiving the increased business will increase their own spending. In addition, energy efficiency investments are generally spent on businesses in the local economy -- e.g., contractors, plumbers, architects, construction companies, appliance distributors. Investments in oil, gas and nuclear fuels, on the other hand are exported to other regions of the US, and even to other regions of the world. Furthermore, investments in energy efficiency measures tend to create more jobs per dollar spent than investments in conventional power supply, because energy conservation activities are simply more labor intensive.

Q. Please explain why municipal governments can account for the employment and economic benefits when determining the amount of DSM that is cost-effective.

A. Unlike electric companies, municipal governments have a direct and significant interest in creating jobs and promoting economic development in their regions. In fact, economic development is frequently one of the primary goals of municipal
governments. Energy efficiency initiatives represent another tool in the portfolio of options available to municipal governments to promote employment and economic development. It is appropriate that municipal governments consider the employment and economic benefits of DSM programs, because that is one of the reasons that they would be implementing the DSM.

In addition, municipal governments are directly accountable to the electricity ratepayers within their boundaries through elected representatives, town meetings, city councils, and other public forums. Therefore, they are more likely than electric companies to pursue the employment and economic development benefits of DSM to the extent that is in the ratepayers’ best interest. This accountability is a fundamental difference between municipal governments and electric companies, and it dictates that the Department provide municipalities with greater scope flexibility in evaluating DSM resources than it has provided electric companies in the past.

Q. Please explain why municipal governments can account for environmental benefits when determining the amount of DSM that is cost-effective.
A. Municipal governments are also interested in the health and well-being of their citizens, and the quality of the environment in which they live. They are directly interested in the environmental benefits provided by energy efficiency savings. Consequently, it is appropriate that municipal governments consider the environmental benefits of energy efficiency savings when evaluating whether a DSM program is cost-effective. Again, municipal governments are directly accountable to the electricity ratepayers within their boundaries, and therefore are likely to pursue the environmental benefits of DSM to an extent that is in line with ratepayers’ interests.

Q. Please explain the advantage of municipal governments not having to recover lost base revenues resulting from energy efficiency savings.
A. In the past, electric companies have been allowed to recover the lost base revenues that occur as a result of energy efficiency savings. These lost base revenues reduce the amount of funding that is available for energy efficiency programs. The Company’s draft Phase I five-year energy efficiency plan
apparently sets aside a significant portion of the energy efficiency funds to be used to recover lost base revenues (COM/Electric Five-Year Energy Efficiency Plan, 1/9/98). Municipal governments, on the other hand, do not have to collect lost base revenues from customers and therefore have more funding available for implementing DSM programs.

Q. Please explain the advantage of municipal governments implementing “fuel-switching” efficiency programs.

A. In many cases it may be cost effective for a customer to reduce electricity demand by switching from an electric end-use measure to an oil or gas end-use measure. One example of fuel-switching is when customers replace their electric space heating equipment with natural gas heating equipment. This type of fuel-switching DSM may be particularly important on Cape Cod where there are over 20,000 homes that are heated with electric space heat and electricity prices are especially high.

However, in the past electric companies have been very reluctant to implement fuel-switching DSM programs because they reduce electricity sales and potential profits. In a restructured electricity industry, distribution companies will continue to be reluctant to implement fuel-switching DSM programs, because they reduce T&D sales and potential profits. Municipal governments, on the other hand, do not face any financial disincentives from fuel-switching programs and will have an interest in all such programs that are cost-effective.

IV. ENERGY EFFICIENCY PROGRAMS IN THE RESTRUCTURING PLAN

Q. Please summarize the provisions of the Massachusetts restructuring law that pertain to electric companies’ responsibilities in implementing energy efficiency programs.

A. The law authorizes and directs the Department to require a mandatory charge per kilowatt-hour for all electricity consumers of the commonwealth to fund energy efficiency programs, including but not limited to DSM programs (G.L.c.25, §19). The law requires that “in authorizing such programs the [D]epartment shall ensure that they are delivered in a cost-effective manner utilizing competitive
procurement processes to the fullest extent practicable” (Id.). The law also requires each electric company to file a restructuring plan that describes, among other things, the company’s proposed programs and recovery mechanisms to promote energy conservation and demand-side management (G.L.c.164, §193.1A(a)).

Q. Please describe the energy efficiency programs contained in the COM/Electric restructuring plan.

A. The COM/Electric restructuring plan explains that the Company is currently in the process of developing a five-year energy efficiency plan. The Company is soliciting input for this plan from a number of stakeholders through a “collaborative” process, and proposes to submit the five-year energy efficiency plan to the Department by March 1, 1998. (Since filing its restructuring plan the Company has proposed instead to file the five-year energy efficiency plan in two phases, on January 30 and on April 1). Since the energy efficiency plan is still being developed, there is very little information provided in the current restructuring plan regarding the Company’s DSM programs.

The restructuring plan notes that the five-year energy efficiency plan will describe incremental programs and activities that will be undertaken in each market sector, and will define annual spending targets based on money available through the energy efficiency fund. The five-year energy efficiency plan will also describe the competitive procurement processes that will be used in implementing the DSM programs.

The restructuring plan lists some of the current DSM programs that the Company will continue to implement under the GreenSaver IRM Program. The plan notes that approximately $12 million is already committed to these programs over the next five years. The plan then lists a set of DSM programs that it will consider for funding from the remaining available revenues in the energy efficiency fund.

Q. Does the restructuring plan contain sufficient information for the Department to approve the energy efficiency programs at this time?

A. No, it does not. The restructuring plan does not contain any information about program design, program delivery, program costs, energy savings, or capacity...
savings. Consequently, it is not possible for the Department to determine at this time whether the programs will be delivered in a cost-effective manner, as required by the restructuring law. The restructuring plan notes that the forthcoming five-year energy efficiency plan will describe the competitive procurement processes that the Company will pursue to implement the programs, but says nothing further about the nature or design of such procurement processes. Consequently, it is not possible for the Department to determine whether the DSM programs will be implemented with competitive procurement processes to the fullest extent practicable, as required by the restructuring law.

Q. How do you recommend the Department treat the energy efficiency programs portion of COM/Electric’s restructuring plan?

A. I recommend that the Department not approve COM/Electric’s restructuring plan at this time, on the grounds that there is insufficient detail regarding the energy efficiency programs. The Department should not approve COM/Electric’s restructuring plan until it has had an opportunity to thoroughly review the Company’s forthcoming five-year energy efficiency plan. If the Department decides to give initial approval to COM/Electric’s restructuring plan, it should segregate the energy efficient provisions of that plan, and not approve of those provisions until it has had an opportunity to review the five-year energy efficiency plan.

V. DSM COST-EFFECTIVENESS IN A RESTRUCTURED INDUSTRY

Q. Why is it so important that the Company provide greater details regarding whether its DSM programs will be delivered in a cost-effective manner?

A. The Department has a long-standing policy that ratepayer money used to fund energy efficiency programs be spent cost-effectively. The recent restructuring law simply reiterates and emphasizes that policy. The new energy efficiency charge will generate roughly $9 to $11 million dollars per year for the next five years from Commonwealth Electric’ customers (COM/Electric response to discovery request CSR-1-12). This amount is roughly two to three times higher than Commonwealth Electric Company’s annual DSM budgets over the past six years (COM/Electric response to discovery request SCR-1-14). With such a large
amount of ratepayer money at stake, it is particularly important that the funds are
invested cost-effectively, and in a fashion that maximizes the energy efficiency
savings and benefits available.

Q. **Does electricity industry restructuring raise issues regarding the standards used in the past to measure DSM cost-effectiveness?**

A. Yes. The restructuring of the electricity industry requires that electric companies
and the Department reconsider the criteria and the tests that have been used in the
past to determine whether a DSM program is cost-effective. In the past, DSM
programs were considered to represent a resource to the vertically integrated
electric utility, and therefore, cost-effectiveness was measured on the basis of
whether the cost of the resource was less than the benefits of the resource. In a
restructured electricity industry, the benefits of a DSM program are experienced
differently by different parties. Generation companies no longer have an interest
in avoiding capacity and energy costs through DSM resources (except maybe as a
service that they may choose to provide to some customers). Electric companies
providing transmission and distribution (T&D) services may enjoy the avoided
T&D costs of DSM programs, but these are likely to represent a small portion of
the total benefits of DSM programs. Electricity customers, on the other hand, still
experience the full benefits of DSM in terms of lower electricity bills.
Furthermore, DSM programs that focus on market transformation may provide
efficiency benefits to electricity customers beyond those that participate in a
particular utility-run DSM program.

Q. **Should the Department clarify what qualifies as a cost-effective energy efficiency program in a restructured electricity industry?**

A. Yes, it is very important that the Department clarify what qualifies as a cost-
effective energy efficiency program in a restructured electricity industry. Without
such a clarification, electric companies may apply inconsistent standards in
designing their programs, important efficiency opportunities could be overlooked,
or valuable energy efficiency funds could be misspent.
Q. What are some of the important concerns that the Department should consider when updating the DSM cost-effectiveness standards?

A. First, it is important that any DSM cost-effectiveness test account for the avoided costs associated with generation of electricity. Even though the energy efficiency charge is collected through, and might be administered by, T&D companies, the cost-effectiveness standard should not be based on avoided T&D costs alone. The ratepayers that contribute to the fund will enjoy the benefits of avoiding generation as well as T&D costs, and therefore the DSM programs should be designed to account for those generation benefits.

Second, the restructuring law clearly encourages the implementation of market transformation DSM programs (G.L.c.25A, §11G). Any revision to the standard for defining cost-effective DSM should account for the unique measurement and cost issues raised by market transformation programs.

Q. Are there DSM cost-effectiveness issues that are unique to municipal governments?

A. Yes. There are three issues that are unique to municipal governments’ DSM cost-effectiveness standards, as described above in Section III. First, municipal governments are primarily interested in reducing electricity costs, and therefore should be allowed to use customer price as the avoided cost of energy efficiency savings. Second, municipal governments have a direct interest in the employment and economic development benefits of energy efficiency, and therefore should be allowed to account for these benefits in their DSM cost-effectiveness standard. Third, municipal governments have an interest in the environmental benefits of energy efficiency, and therefore should be allowed to account for these benefits in their DSM cost-effectiveness standard.

Q. How should the Department address these DSM cost-effectiveness issues that are unique to municipal governments?

A. I recommend that the Department clarify that municipal governments will have some discretion and flexibility in determining the extent to which DSM programs within their boundaries are cost effective. Municipal governments, if they so choose, should be allowed to use electricity price to represent the avoided cost of DSM, and should be allowed to account for the employment, economic
development and environmental benefits of DSM programs. Each municipal
government (or group of municipal governments acting as a single aggregator)
should describe in their energy plans how they account for these factors in
designing and evaluating their proposed DSM programs. The energy plans would
have to be approved by citizens at the local level. The Department would then
review each municipal government’s energy plan to ensure that the DSM cost-
effectiveness approach used is consistent with state energy goals.

VI. THE PROCESS FOR DISBURSING ENERGY EFFICIENCY FUNDS

Q. Why is it so important that the Company provide greater details regarding
the competitive procurement processes used to implement its DSM
programs?

A. The processes used to implement the Company’s DSM programs could
significantly affect who has access to the energy efficiency fund, and how the
fund is used. As mentioned above, many towns on Cape Cod are planning to
receive a portion of the energy efficiency fund. It is essential that the competitive
procurement process used to disburse the energy efficiency funds be flexible
enough to allow municipalities to receive and expend the funds -- and to be given
fair access to the funds over time.

Q. What does the restructuring law say about who should administer the energy
efficiency fund?

A. The law is not entirely clear as to who should administer the funds raised through
the energy efficiency charge. The law authorizes and directs the Department to
require the energy efficiency charge be applied to all consumers of the
commonwealth (G.L.c.25, §19). The law also directs the Department to authorize
the programs to “ensure that they are delivered in a cost-effective manner utilizing
competitive procurement processes to the fullest extent practicable” (G.L.c.25,
§19).

In addition, the law authorizes the Division of Energy Resources (DOER) to
“oversee and coordinate rate-payer-funded energy efficiency programs” in order
to achieve certain goals (G.L.c.25A, §11G). The law also requires the DOER to
conduct a public hearing process, within one year of the enactment of the law, to “investigate the role of the division in the oversight and statewide coordination of energy efficiency programs” (G.L.c.25A, §11G). The law does not indicate how the energy efficiency funds should be administered in the meantime, nor does it mention the role of electric companies in administering DSM programs.

Q. How should the funds raised by energy efficiency charge be administered?

A. I believe that the energy efficiency funds should be administered by an entity that (a) does not have any direct financial interest in how the funds are spent, and (b) has an interest in promoting the statewide energy efficiency goals. The DOER certainly meets these two criteria. Other public, non-profit, or even private entities meeting these criteria could also be chosen or established to administer the energy efficiency funds. However, electric companies do not meet these criteria and therefore are not good candidates for administering the funds.

Q. Why are electric companies not good candidates for administering the funds raised by the energy efficiency charge?

A. Electric companies have a direct financial interest in the implementation of DSM programs, and might therefore bias the way that the energy efficiency funds are spent. This financial interest arises from two factors. First, as described above, DSM programs can work directly against the financial interests of electric distribution companies by reducing T&D sales and thereby lowering revenues and profits. Consequently, electric companies might not be as effective as a neutral, independent entity in designing and implementing DSM programs. The existence of this conflicting financial incentive on electric companies increases the regulatory burden on the Department of overseeing electric company DSM activities.

Second, many electric companies are affiliated with an energy service company through a parent holding company. These unregulated energy service companies are likely to compete for a portion of the energy efficiency funds. If electric companies administer the energy efficiency funds, then there is a significant risk of “self-dealing” between a company and its sister subsidiary. This sort of self-
dealing would clearly represent an abuse of market power that is in direct conflict
with the Massachusetts restructuring law.

Q. Is there a risk of this sort of self-dealing in COM/Electric’s service territory?
A. Yes, there is such a risk. Commonwealth Energy System, the parent company of
COM/Electric, recently established a subsidiary called COM/Energy Enterprises,
Inc. The initial focus of this subsidiary will be the “acquisition, development
and/or management of electric, heating, and cooling systems for individual or
groups of institutional, commercial and industrial customers” (Commonwealth
Energy System 1996 Annual Report). It is possible that COM/Energy Enterprises
will seek to deliver some of the energy efficiency programs being offered by
COM/Electric through the energy efficiency fund.

Q. Are municipal governments good candidates for administering the funds
raised by the energy efficiency charge?
A. Yes, they are. As described above, there are many reasons why municipal
governments have a strong interest in implementing successful, effective DSM
programs. They do not have any conflicting financial incentives, and they enjoy
the many benefits of DSM programs -- reduced electricity bills, improved
electricity services, increased economic activity and reduced environmental
impacts.

Furthermore, municipal governments are directly accountable to electricity
ratepayers, through town meetings, elected representatives, city councils, and
other forums. Municipal governments’ operations are more transparent to
citizens, and they function under full public review and requests for disclosure of
information. Municipal governments will be required to have their energy plans,
including DSM program activities, approved at the local level. Consequently,
municipal governments are more likely than electric companies to implement
DSM programs that are consistent with electricity customers’ needs.

Q. What role do you recommend that municipal governments play in
administering the funds raised by the energy efficiency charge?
A. The restructuring law requires that qualifying municipal governments be allocated
all of the energy efficiency funds that are raised from the electricity customers in
their geographic boundaries. These municipal governments will therefore have the responsibility for administering those energy efficiency funds and delivering DSM programs to those customers. In order to qualify for these funds, the municipal agency will be required to develop a plan to aggregate all interested customers within their boundaries, and develop an energy plan detailing the energy efficiency programs to be implemented. The energy plan would have to be reviewed and approved by the Department as being consistent with the commonwealth’s overall energy goals.

Q. Are there certain issues to consider in allowing municipalities to receive a portion of the energy efficiency funds?

A. Yes, there are three factors to consider in allowing municipalities to receive energy efficiency funds. The first is the fact that municipalities have not had sufficient time to respond to the recent restructuring law, and to take the steps necessary to receive DSM funding. Municipalities are required to develop an energy plan for the municipality, have the plan approved at the local level, and then have the plan approved by the Department. While many towns on Cape Cod have taken some of these measures, it is unlikely that they will all be ready for the Company’s first competitive procurement process. Therefore, it is essential that the Company’s procurement process does not commit to spending the DSM funds for particular programs or for particular vendors for too long a period of time. The DSM procurement process must either set aside sufficient funding for municipalities to obtain in the future, or be flexible enough that municipalities can receive DSM funding in the near-future without being locked-out of the process.

Q. What is the second factor to consider in allowing municipalities to receive a portion of the energy efficiency funds?

A. Some municipalities may wish to utilize energy efficiency funding to design and implement their own DSM programs. Municipalities may have different priorities and interests for DSM programs than electric companies. Consequently, they may seek to promote different efficiency technologies and measures, they may seek to target different customer segments, and they may seek different methods or different contractors for delivering the energy efficiency programs. Therefore,
it is important that the Company does not limit the use of the DSM funds to programs that are designed in advance by the Company.

Q. **What is the third factor to consider in allowing municipalities to receive a portion of the energy efficiency funds?**

A. In many cases, municipalities may wish to take the responsibility for administering and implementing a DSM program designed by the Company. In particular, a municipality may wish to hire and oversee their own contractors for delivering and installing energy efficiency measures and technologies. A municipality may wish to apply different criteria in selecting a contractor through a competitive procurement process. Therefore, it is important that the process used to disburse the energy efficiency funds allows for municipalities to be able to take over the responsibility for implementing a Company-designed DSM program within its geographic area. If the program is already underway, and is already utilizing contractors to deliver the energy efficiency measures, then there should be enough flexibility in the system to allow municipalities to take control of the program, oversee the contractors hired, and eventually bid out for new contractors if so desired.

Q. **Has COM/Electric accounted for these three factors in its restructuring plan?**

A. No. The Company’s restructuring plan does not mention these factors, or even recognize that municipal governments are likely to play an important role in implementing DSM programs. In response to a discovery request in this docket, the Company noted that it has not yet “developed specific contract provisions for a possible transition for DSM services to being provided by entities other than those contracted for by the Companies” (Com/Electric response to information request CSR-1-7).

In its draft five-year efficiency plan, made available to the members of the collaborative, the Company makes a proposal for spending the first two years of energy efficiency funds (March 1988 through the end of 1999). The Company proposes to spend all of the funds on existing programs and new programs designed through the collaborative (COM/Electric draft Five-Year Energy
Efficiency Plan, 1/9/98). There apparently is no money set aside for municipal governments to receive, and there is no room in the budgets left for any entity to implement DSM programs that have not been designed by the Company. The Company’s draft five-year efficiency plan appears to not include any opportunity for municipal governments to receive a portion of the energy efficiency funds.

Q. What do you recommend that the Department do at this time with regard to COM/Electric’s plan to disburse the energy efficiency funds?

A. I recommend that the Department require COM/Electric to include in its forthcoming energy efficiency plan a detailed proposal for how to disburse the funds raised by the energy efficiency charge. The proposal should include the following elements:

- A discussion of how the Company will set aside funding to be allocated to qualifying municipal governments to implement DSM programs.

- A detailed discussion of the process used to solicit, evaluate and select competitive proposals for using the energy efficiency fund to implement DSM resources. The discussion should describe the selection process and the criteria that will be used to choose between competing proposals.

- A description of all the measures that the Company will take to prevent self-dealing, or other potential abuses of market power, in disbursing the energy efficiency funds.

- A discussion of how COM/Electric will solicit, evaluate and select competitive proposals for DSM program designs other than those proposed by the Company in its five-year energy efficiency plan.

- A discussion of all the provisions that would allow qualifying municipal governments to accept responsibility for implementing within their borders programs that have been previously implemented by the Company. For example, the Company could establish a practice of maintaining short-term contracts (e.g., one year or less) with energy service vendors, thereby allowing the opportunity for municipal governments to take over responsibility for those contracts when they roll over. Another option would be for contracts
with vendors to include clear termination, release or transition provisions that allow for the contract to change hands from the Company to a municipal government.

- A discussion of the DSM cost-effectiveness standard, and how that standard would be used to evaluate proposed DSM initiatives. Ideally, the standard would reflect any decisions by the Department to revise the definition of DSM cost effectiveness in a restructured electricity industry.

- A discussion of any other factors unique to municipal governments that might be considered in the disbursement of the energy efficiency funds. For example, proposals for initiatives to coordinate utility DSM activities with those of municipal governments.

Before approving the Company’s five-year energy efficiency plan, the Department should review all these elements of the Company’s proposal and ensure that the plan complies with the provisions and spirit of the restructuring law, utilizes competitive procurement practices to the greatest extent practicable, minimizes the potential for abuse of market power, and is in the public interest.

VII. RENEWABLE RESOURCES

Q. How does the COM/Electric restructuring plan treat renewable resources?

A. The Massachusetts restructuring law authorizes and directs the Department to establish a mandatory charge per kilowatt-hour for all electricity consumers, to collect funds to support the development and promotion of renewable resources. The Massachusetts Technology Park Corporation will administer Massachusetts Renewable Energy Trust Fund. The COM/Electric restructuring plan simply notes that the Company will collect the mandatory renewable charge and remit the funds to the Massachusetts Technology Park Corporation.
Q. Do you have any concerns regarding renewable resources in the Company’s restructuring plan that you would like to bring to the Department’s attention?

A. Yes. There are two conditions imposed in the Company’s proposed rates that might limit the ability of electricity customers to install on-site renewable resources or cogeneration systems. The first condition is the Customer Exit Charge (CEC), rate CEC-1. This charge is intended to collect the appropriate amount of stranded costs from those electricity customers that significantly reduce their load by installing on-site generation or cogeneration equipment (Direct testimony of Henry C. Lamontagne, 1/16/1998). The CEC charge is an “exit charge,” as allowed by the restructuring law (G.L.c.164, §1G(g)).

However, the restructuring law explicitly states that customers installing certain cogeneration equipment, renewable energy technologies or fuel cells should not be subject to such an exit charge. The law states that:

a customer that reduces purchases of electricity through the operation of, or purchases from, on-site generation or cogeneration equipment, shall not be subject to an exit charge if (i) such customer provided less than or equal to 10 per cent of the annual gross revenues collected by its previous service provider in the year prior to the customer leaving the system after the retail date established in this bill... or (ii) the customer reduces purchases through the operation of, or purchases from, on site renewable energy technologies, fuel cells, or cogeneration equipment with a combined heat and power system efficiency of at least 50 per cent, based upon the higher heating value of the fuel used in the system; or (iii) the customer reduces purchases through the operation of, or purchases from, an on site generation or cogeneration facility of 60 kilowatts or less which is eligible for net metering. (G.L.c.164, §1G(g), emphasis added).

Q. What do you recommend the Department do with regard to the Company’s proposed CEC rate?

A. I recommend that the Department not approve of the Company’s proposed CEC rate. The Company should be required to modify the terms and conditions of the rate explicitly to exclude customers that install cogeneration equipment, renewable energy technologies or fuel cells, according to the provisions of the Massachusetts restructuring law.
Q. What is the second condition in the Company’s proposed rates that might limit the ability of electricity customers to install on-site renewable resources or cogeneration systems?

A. The Company’s proposed General rate (G-1) includes a term that might pose a barrier to some customers wishing to install cogeneration equipment or renewable energy technologies. The terms of the G-1 rate require that:

Customers served under this rate must provide the Company with two years’ prior written notice before installing or allowing to be installed for its use a non-emergency generator with a nameplate capacity greater than that in place on the Customer’s location as of May 1, 1995 (M.D.P.U. No. 344, page 5).

This notification period places an unnecessary burden on customers who wish to install cogeneration equipment or renewable energy technologies; some customers may wish to install such equipment is less than two years.

The section in the Massachusetts restructuring law, referred to above, that discusses exit charges for customers that install cogeneration equipment renewable technologies or fuel cells states that “the utility shall not require more than six months notice of the customer's plans to install said equipment” (G.L.c.164, §1G(g)). A six-month notification period would also be appropriate for customers on the G-1 rate wishing to install on-site generation equipment.

There is no reason to impose more onerous terms on the G-1 rate than those that are imposed by the CEC-1 rate.

Q. What do you recommend the Department do with regard to the Company’s proposed G-1 rate?

A. I recommend that the Department not approve the Company’s proposed G-1 rate. The Company should be required to modify the terms of the rate explicitly to require no more than six months prior notice for customers that wish to install on-site generation equipment.

Q. Does this conclude your testimony?

A. Yes, it does.