A RATEPAYER FUNDED HOME ENERGY AFFORDABILITY PROGRAM FOR LOW-INCOME HOUSEHOLDS:

A Universal Service Program for Ontario's Energy Utilities

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payments.

1 Ontario has a large and growing home energy affordability gap facing its low-income 2 households. Available resources are grossly insufficient to address this affordability gap. As a 3 result of this mismatch between energy bills and the resources needed to pay them, many low-4 income households incur unpaid bills and experience the termination of service associated with 5 those arrears. In addition, the paid-but-unaffordable bill is a real phenomenon. Even when low-6 income households pay their bills in a full and timely manner, they often suffer significant 7 adverse hunger, education, employment, health and housing consequences in order to make such 8

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In response to these affordability problems, this report outlines the essential components comprising an effective and efficient Universal Service Program for Ontario utilities. These components include:

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A rate affordability component;

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➤ An arrearage management component;

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➤ A crisis intervention component;

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A conservation and demand management component; and

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> Specified basic consumer protections.

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Each individual program component is described in more detail below.

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PART 1: THE RATE AFFORDABILITY COMPONENT.

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The first critical component of a Universal Service Program is a rate affordability program. Through the rate affordability program component, the price of home energy is set at a level that will generate the greatest ability of low-income customers to make actual payments.

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A. An Overview and Summary.

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Building a rate affordability program consists of six basic steps:

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1. **Eligibility:** Defining the eligibility for the universal service program should allow the program to be open to enrollment by any low-income consumer.² For purposes of this program, a "low-income consumer" is any consumer with gross household income at or below the Low-Income Cutoff (LICO).³ In addition, it is appropriate to

¹ This includes either electricity or natural gas or both.

² Defining eligibility and targeting outreach are two distinctly different tasks. The utility may define eligibility so that all low-income customers may participate, but nonetheless seek to target outreach to specific payment-troubled customers. Targeting places special emphasis on enrolling a particular class of customers from among those classes that are eligible.

³ A rate affordability program that distributes assistance based on energy burdens is not geared to serve customers living with even moderate incomes. As a general rule, customers with even moderate incomes will have energy bills that do not exceed the affordable burden that serves as the basis for universal service benefits. Assume, for example, a household living with an income of \$30,000. If the affordable electric burden were 6% of income, that

allow the Universal Service Program to set aside a reasonable amount of crisis funding to serve customers who are only moderately low-income. In this instance, "need" would not be defined by income alone, but by a fact-specific inquiry into individual circumstances.

- 2. <u>Outreach</u>: Informing low-income customers of the availability of the Universal Service Program involves both education about the <u>existence</u> of the program and education about <u>how to enroll</u> in the program. The most effective forms of outreach for utility universal service programs have been found to involve the use of community-based organizations as well as organizations that deliver benefits to the same households that are eligible to receive universal service benefits. Outreach should also occur through the local utility channeling customers to the program when, based on utility records, those customers are found to be payment troubled.
- 3. <u>Intake</u>: Enrolling customers in the Universal Service Program involves making customers into program participants. The primary intake should occur by contracting with relevant federal and provincial agencies to "match" electronic lists of residential customers with lists of social assistance program participants. This income verification is effective and inexpensive. In addition, consumers should be given the opportunity to complete an in-person application through a community-based site whether or not they participate in another social assistance program.⁴
- 4. **Benefits:** Distributing rate assistance benefits should be on a fixed credit basis. The fixed credit benefits are delivered to the program participant as part of a levelized monthly billing plan. The levelized bill under the rate assistance program will represent the annual bill, minus the annual fixed credit, divided into twelve⁵ equal monthly installments.
- 5. <u>Collections</u>: Enforcing customer payment obligations after a customer receives a Universal Service assistance benefit should occur through the same credit and collection activities directed toward any residential customer. If a customer receiving a universal service benefit does not make appropriate payments, that customer enters the collection cycle with the same rights and responsibilities as any other customer. In this fashion, no new or special administrative process is created for the universal service participants.
- 6. **Recertification:** Recertifying income for customers whose income cannot reasonably be determined to be non-variable over the long-term should occur on an annual basis. Most participants will have their income recertified automatically through a contract with the appropriate provincial or federal agency. For those customers whose income cannot be recertified in this fashion, the customer will be notified at an appropriate time before his or her anniversary date of the need for recertification.

household would need to experience an electric bill of \$1,800 or more to benefit from the universal service program. Accordingly, extending the eligibility to these higher income households offers a false sense of program expansion. Few, if any, of these higher income households benefit from a burden-based universal service program.

⁴ This direct application process, however, is generally a relatively minor source of program participation.

⁵ If a utility offers only an eleven month levelized billing plan, there is no problem. There is no "magic" to a 12-month levelized budget-billing plan.

Having provided this summary, the remainder of this section will address the structural issues of

rate affordability assistance in more detail.

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B. Proposed Structure for an Ontario Rate Affordability Program.

Rate affordability assistance should be tied to the most recently available Low-Income Cutoffs

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(LICO). For a family with three persons living in a community of fewer than 30,000 persons, the 2004 LICO is \$24,375. For a family of four in the same size community, the LICO is \$29,596. The table below sets forth the LICOs for 2004. As can be seen, with households that have three or fewer persons, which covers the typical household in Ontario, the LICO for each type of area (except for communities with a population over 500,000) is significantly less than \$30,000. Only when household sizes reach a minimum of five persons do LICOs for all urban areas exceed \$30,000. Only when household sizes reach a minimum of six persons do all LICOs

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exceed \$30,000. Family Size

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1 \$14,000 \$15,928 \$17,407 \$17,515 \$20,337 2 \$17,429 \$19,828 \$21,804 \$25,319 \$21,669 3 \$21,426 \$24,375 \$26,639 \$26,805 \$31,126 4 \$26,015 \$29,596 \$32,345 \$32,546 \$37,791 5 \$29,505 \$33,567 \$36,685 \$36,912 \$42,862 6 \$33,278 \$37,858 \$41,375 \$41,361 \$48,341 7+ \$37,050 \$42,150 \$46,065 \$46,350 \$53,821 It should be recognized that under a Universal Service Program that is based on affordable home

Before Tax Low-Income Cut-Offs (LICOs), 2004

Less than 30,000

Population of Community of Residence

30,000 - 99,999

Urban Areas

100,000 - 499,999

500,000+

energy burdens, if, because of relatively higher income or relatively lower home energy bills, the pre-determined percent of a household's income will exceed their annual electric bill, the household will receive no benefit. In those instances, the home energy bill is deemed "affordable" and the local utility will collect the entire fully-embedded rate. Only in those instances where the household, due to low-incomes or high bills, faces a utility bill that exceeds the designated percentage of its income, is the bill deemed to be "unaffordable" and the Universal Service Program rate is offered to reduce the burden to an affordable level.⁶

⁶ To illustrate, assume a household has an annual income of \$25,000, an annual energy bill of \$1,200, and is asked to pay six percent (6%) of her income toward her energy bill in an income-based program. This customer's incomebased energy bill payment would be 1,500 ($25,000 \times .06 = 1,500$). Hence, this customer would decide not to participate in the income-based rate, since her fully-embedded bill is less than the bill rendered under the Universal Service Program.

- 1 Rate affordability assistance in Ontario should be distributed on a percentage of income basis.
- 2 Using a percentage of income approach to targeting provides a more efficient use of scarce rate
- 3 affordability resources. This can be demonstrated by comparing an across-the-board discount to
- 4 a percentage of income approach. While a percentage of income approach delivers those
- 5 benefits, but only those benefits, needed to bring low-income bills into an affordable range, an
- 6 across-the-board discount does not. Using an across-the-board discount, the universal service
- 7 program would pay some customers *more* than is necessary to bring bills into an affordable
- 8 range while paying other customers *less* than is necessary to bring bills into an affordable range.
- 9 Accordingly, it is most appropriate to base the rate affordability component of the Universal
- 10 Service Program on a percentage of income targeting mechanism.⁷

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Although a variety of percentage-of-income based approaches exist, delivery of rate affordability assistance using a fixed credit approach is most appropriate. The fixed credit approach begins as an income-based approach. In order to be eligible for the rate, a household must meet *both* eligibility criteria: (1) that the household income is at or below the Low-Income Cutoff (LICO) for Ontario; and (2) that the household energy burden exceeds the burden deemed to be affordable.⁸

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The fixed credit approach next calculates what bill credit would need to be provided to the household in order to reduce the household's energy bill to a designated percent of income. To calculate the fixed credit involves three steps: (1) calculating a burden-based payment; (2) calculating an annual bill; and (3) calculating the fixed credit necessary to reduce the annual bill to the burden-based payment. Each step is explained below.

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1. **Burden-based payment:** The first step in the fixed credit model is to calculate a burden-based payment. Assume --simply for the sake of illustration here-- that the household has an annual income of \$8,000 and is required to pay six percent (6%) for its home energy bill. The required household payment is thus \$480. This is determined as follows: $$8,000 \times 6\% = 480 .

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Distinctions in the percentage of income payment are made based upon whether the customer is a heating or non-heating customer. The payment is split evenly between the heating and non-heating component of the utility bill. Under a 6% scenario, a natural gas heating customer would be asked to pay three percent (3%) of the household's income toward her home heating bill, and another three percent (3%) toward her electric bill. An all electric customer would pay six percent (6%) toward her electric bill. Other percentage burdens would be similarly split half-and-half (8% converts to 4% toward each fuel).

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The energy burden represented by a combined heating and non-heating energy bill should not generally exceed six percent (6%) of income. It is generally accepted that a household's "shelter burden" (rent/mortgage plus taxes plus utilities) should not exceed

⁷ Two states in the United States have adopted a "tiered discount" program to serve as an alternative to an across-the-board discount. A tiered discount is designed so those customers receiving a particular discount level will, on average, pay an affordable percentage of income. The tiered discount approach, while less well-targeted than a burden-based program, nonetheless did an adequate job of targeting rate affordability benefits in those states.

⁸ A customer may still participate in the arrearage management program component even if he or she does not participate in the rate affordability component.

30% of income. In addition, a household's home utility bill should not exceed 20% of the household's shelter costs. Combining those two yields an affordable home energy burden of six percent (6%). Clearly, however, the reasonableness of an energy burden is a range and not a point. Ultimately, whether an affordable burden should be set as 6% or as 8% (or some other figure) is a policy decision. The percentage of income burden that triggers significant payment-troubles (*e.g.*, service disconnections) appears to be in the range of 10% to 12% of annual income. ¹⁰

- 2. **Projected annual bill:** The second step is to calculate a projected annual household energy bill. This calculation is to be made using whatever method the local utility *currently* uses to estimate annual bills for other purposes. A utility, for example, will likely have an established procedure for estimating an annual bill for purposes of placing residential customers (low-income or not) on a levelized Budget Billing Plan (where bills are paid in equal installments over 12 months). That same process can be used to estimate an annual bill for purposes of calculating the needed fixed credit.
- 3. **Fixed credit determination:** The final step is to calculate the necessary fixed credit to bring the annual bill down to the burden-based payment. Given an annual bill projection of \$1,200 and a burden-based payment of \$480, the annual fixed credit would need to be \$720 (\$1,200 \$480 = \$720). The household's *monthly* fixed credit would be \$60 (\$720 / 12 = \$60).

In addition to various administrative benefits from use of a fixed credit, the fixed credit offers the advantage of providing a strong conservation incentive to the low-income customer. Under the fixed credit model, the local utility provides a \$60 fixed credit to the low-income household irrespective of the household's actual bill. If the household increases its consumption, and thus has a higher bill, the household pays the amount of the increase. If, in contrast, the household conserves energy and thus lowers its bill, the household pockets the savings.

The administrative advantages of the fixed credit program are two-fold. First, use of fixed credits as a benefit distribution mechanism allows the program to work within a fixed operating budget. Once a low-income customer is enrolled in the universal service program, the maximum possible financial exposure for the time of the enrollment is established. At no time, can the maximum financial exposure exceed the budgeted program revenues. Systems can be easily designed to track funds that are obligated and expended to ensure that the budget is not exceeded. In contrast, benefit expenditures through either a straight percentage of income program or a percentage of bill program may vary based upon changes in consumption.

In addition to this budgeting advantage, the fixed credit approach makes the billing less complicated as well. Using the same process that currently exists to establish a levelized budget-billing plan, fixed credits can be subtracted from a customer's levelized annual bill. The monthly bill is then rendered based upon this one-time annual adjustment. The utility does not

⁹ This report sets aside for the moment the inclusion of water and sewer utility bills in this six percent. ¹⁰ "Affordability" concerns are triggered at much lower percentage of income burdens. Affordability concerns, involving household budget trade-offs and payment troubles less intense than the loss of service appear to be triggered at the 6% to 8% percentage of income burden levels.

The fixed credit is, in essence, booked as a "payment" on the account.

need to make monthly billing adjustments as is the case with either the straight percentage of income, or with the percentage of bill, approach.

If, because of budget constraints, it does not appear that an entirely "pure" affordability program can be implemented, modest changes can be made to the affordable burden. One reasonable response to a strict budget constraint would be to modestly increase the percentage burden that a customer is required to pay. Setting the "affordable" burdens at 4% and 8% (rather than 3% and 6%), for example, could well bring the program within the budget.

Intake should be automated to the extent possible. This conclusion is based in both policy and operational considerations. An "automated intake" process involves entering into an agreement with the provincial human services agency to certify whether customers are income eligible for Universal Service Program payments.

The Universal Service Program can be automated to a high degree. Many state telephone universal service programs in the United States rely on an automated intake procedure for enrolling participants. In addition:

➤ Virtually all participants in the New Jersey electric/gas Universal Service Program (USP) are certified by the state's energy assistance agency.

> This, too, is the case with respect to Maryland's Electric Universal Service Program (EUSP).

➤ Pennsylvania's gas and electric CAP programs¹² also rely largely on income verification through the Pennsylvania Department of Public Welfare and the Pennsylvania Department of Revenue.

The rate discounts offered by Massachusetts gas and electric investor-owned utilities primarily enroll customers through an automated intake procedure. These gas and electric utilities provide electronic tapes of their residential customer base to the Department of Transitional Assistance (DTA), which then matches the tapes to participants in various public assistance programs. DTA then informs the utility of which customers are eligible for the utility rate discounts. ¹³

 The impact of this automated approach is that utility companies do not need to devote substantial stafftime to enrollment or income verification. The Pennsylvania Public Utility Commission (PUC) has specifically said that "we have found that automatic referrals to CAP when a customer calls to make a payment arrangement and intake certification by government agencies are simple to administer and cost-effective."

In sum, four critical components of the proposed rate affordability component of a Universal Service Program are proposed above:

¹² CAP is Pennsylvania's universal service program (the Customer Assistance Program).

¹³ The agency need not identify precisely which program the household is participating in when it confirms household eligibility. The utility need not know, in other words, *why* the household is eligible so long as it knows that the household is eligible.

- ➤ Eligibility is set at the Low-Income Cutoff (LICO);
- Enrollment should be, to the maximum extent feasible, implemented through an automated data exchange with social assistance agencies;
- Rate affordability benefits are to be delivered through a fixed credit approach;
- The level of "affordability" should be set at 6% of household income. This affordability factor should be split evenly between baseload electric usage (3%) and space heating (3%). An all electric household should pay the full 6%.¹⁴

C. A "Small Utility Alternative".

Not all electric and/or natural gas utilities have the financial wherewithal to adopt the fixed credit rate affordability described above. For these small utilities --the definition of "small" is a matter of municipal or government regulatory policy--¹⁵ a small utility rate affordability alternative is available. The substantive benefits of a rate affordability program can be generated without incurring the administrative costs of implementing a fixed credit program.

The small utility alternative involves the adoption of a tiered discount program. As with the fixed credit program, a tiered discount program is tied to an affordable energy burden. The tools this alternative uses to reach the affordability objectives are simply somewhat blunter and less-well tailored to assure that all customers achieve affordability. Instead of the targeted affordability benefits, a tiered discount program is aimed at ensuring affordability on average.

The purpose of a Home Energy Affordability Program in Ontario is to promote the supply of affordable electric service to low-income customers. As described above, energy burdens are the generally-accepted mechanism by which to measure "affordability." Ontario should establish, by policy, that an affordable burden is three percent (3%) of income for base load electric use and six percent (6%) of income for electric space heating use. The fixed credit approach to distributing home energy affordability benefits, as described above, explicitly reduces low-income electric bills to a point where those bills present an affordable burden. The fixed credit is based on a household's actual annual income and actual home energy bills (with some exceptions). The fixed credit defrays the cost of bills that exceed the affordable burden.

In contrast to the fixed credit approach, a tiered discount approach can only approximate an affordable burden. A tiered discount approach to distributing benefits is designed to reduce a bill to an affordable percentage of income (with the percentage differing depending on whether the customer is a base load customer or a space heating customer) assuming that the household consumes at the average level of consumption. To the extent that a household consumes more or

¹⁴ As discussed in more detail above, however, the affordable burden is a range and not a point. Total energy burdens of up to as high as 10% could be determined, by policy, to be within a range of reasonableness.
¹⁵ The Belmont Electric Light Department, a municipal utility serving 10,000 residential customers, adopted a "small utility rate affordability alternative effective January 2006. One alternative to defining "small utility" by policy is to establish the "small utility" alternative and require a utility to petition regulators for the option of adopting the small utility alternative.

less than average, the household will bear a burden either higher or lower (respectively) than the affordable burden.

Calculation of the Tiered Discount

To calculate a tiered discount, all low-income customers are placed into buckets demarcated by annual income levels. Buckets used to develop a tiered discount can be disaggregated into as large (or small) of a range as desired. The buckets used in U.S. programs generally proceed in \$2,000 increments as follows:

- > Less than \$2,000
- > \$2,000 \$3,999
- **\$4,000 \$5,999**
- > \$6.000 \$7.999
- > \$8,000 \$9,999
- > \$10,000 \$11,999
- > \$12,000 \$15,000
- ➤ Above \$15,000

Using the mid-point of each income bracket, an affordable bill can be calculated by applying the electric burden determined to be "affordable." In the bottom bracket, for example (less than \$2,000), the mid-point (\$1,000) is multiplied by the affordable burden to calculate an affordable bill of $$40 ($1,000 \times 0.04 = $40)$). This process yields affordable bills as follows:

Annual Income	Mid-point	Affordable Burden	Affordable Bill
Less than \$2,000	\$1,000	.04	\$40
\$2,000 - \$3,999	\$3,000	.04	\$120
\$4,000 - \$5,999	\$5,000	.04	\$200
\$6,000 - \$7,999	\$7,000	.04	\$280
\$8,000 - \$9,999	\$9,000	.04	\$360
\$10,000 - \$11,999	\$11,000	.04	\$440
\$12,000 - \$15,000	\$13,500	.04	\$540
Over \$15,000	\$15,000	.04	\$600

Clearly, by taking the mid-point of each bucket, the affordable burden is accurate only for those persons exactly at that mid-point. Customers with incomes in the half of each bucket below the mid-point will pay more than an affordable burden, while customers with incomes in the half of the bucket above each mid-point will pay somewhat less than an affordable burden.

Households in each income bucket are next assigned the average annual expenditure for electricity for the company providing electricity. For example, and purely for illustration, all customers, at whatever income level, are assigned the average residential base load electric bill, irrespective of income. While an ideal world would allow bills to be varied based on income level, the data to allow for that refinement does not currently exist.

The *difference* between this average bill and the affordable bill is determined. For example, the amount by which actual average bill exceeds the affordable bill for a household in the \$4,000 - \$5,999 income bucket (mid-point of \$5,000) is \$600 (actual bill (\$800) – affordable bill (\$200) = difference (\$600)).

Annual Income	Mid-point	Affordable Burden	Affordable Bill	Average Bill	Difference
Less than \$2,000	\$1,000	.04	\$40	\$800	\$760
\$2,000 - \$3,999	\$3,000	.04	\$120	\$800	\$680
\$4,000 - \$5,999	\$5,000	.04	\$200	\$800	\$600
\$6,000 - \$7,999	\$7,000	.04	\$280	\$800	\$520
\$8,000 - \$9,999	\$9,000	.04	\$360	\$800	\$440
\$10,000 - \$11,999	\$11,000	.04	\$440	\$800	\$360
\$12,000 - \$15,000	\$13,500	.04	\$540	\$800	\$260
Over \$15,000	\$15,000	.04	\$600	\$800	\$200

This difference is the benefit that a tiered discount is designed to deliver. So long as a customer has annual expenditures that are equal to the company's residential average, application of a tiered discount will reduce that customer's annual electric bill to the burden determined to be affordable. Converting the data above into discounts would result in the following:

Annual Income	Average Bill	Difference between Affordable and Average Bill	Discount Needed (col 2 / col 1)	Affordable Bill (col 1 * (1 – col 3)
Less than \$2,000	\$800	\$760	95%	\$40
\$2,000 - \$3,999	\$800	\$680	85%	\$120
\$4,000 - \$5,999	\$800	\$600	75%	\$200
\$6,000 - \$7,999	\$800	\$520	65%	\$280
\$8,000 - \$9,999	\$800	\$440	55%	\$360
\$10,000 - \$11,999	\$800	\$360	45%	\$440
\$12,000 - \$15,000	\$800	\$260	32.5%	\$540
Over \$15,000	\$800	\$200	25%	\$600

The above table demonstrates that a four percent (4%) energy burden is achieved for a household with an annual income at the mid-point between \$6,000 and \$7,999 (\$7,000) by providing a 65% discount to an \$800 home energy bill. If the bill is more than \$800, the 65% discount will be too little (and the burden will exceed 4%). If the bill is less than \$800, the 65% discount will be too much (the burden will be less than 4%).

The discount is "tiered" because, as incomes decrease, it takes a deeper discount to deliver a benefit equal to the difference between an affordable bill and the average bill. The more levels of discount that exist (i.e., the more "tiers"), the more highly targeted the discount will be. However, the more number of tiers, the more complex the program becomes and the more difficult it becomes to set up and administer. Regulators need to determine, by policy, how many

tiers they wish in their tiered discount program. A discount with three to four tiers is recommended

In all matters other than rate discount, a small utility home energy affordability program should have the same program components (e.g., arrearage management, crisis assistance, energy efficiency) that a larger utility does.

The Issues Raised by a Fixed Credit vs. a Tiered Discount EAP

A decision to implement a tiered discount alternative for small Ontario utilities presents two primary issues. The issues are of two kinds:

A policy issue, and

> A program issue

<u>The policy issue</u>: The first issue is one of policy. On the one hand, the fixed credit program clearly better targets benefits to low-income customers. A customer would consume at a utility's average residential consumption only by happen chance. Because discounts are based on average consumption, in nearly every case, low-income customers will receive either more benefits than are needed to reduce their expenditure to an affordable burden or fewer benefits than are needed.

And this result does not even consider the fact that average consumption is combined with the use of the mid-point of the income range. Even if a customer consumes exactly at a company's average, unless that customer *also* has annual income exactly at the mid-point of the income bracket for which the discount is established, a tiered discount will give the customer either "too much" or "too little."

The response to this is that, setting aside whether the tiered discount is *exactly* correct in its reduction of energy burdens to an affordable burden, in *every* case, the customer is *better off* than had the customer received no discount at all. The adage that it is better to be approximately correct than precisely wrong informs this observation. Even if the lowest income customers do not have their electric burdens reduced to exactly four percent (4%), paying eight percent (8%) with the discount leaves the customer much better off than paying 40% without the discount.

The fixed credit precisely targets benefits. The issue of whether some customers receive "too much" and others receive "too little" does not arise. This precision in targeting, however, comes with a cost. Small utilities argue that the cost of setting-up and administering a fixed credit program is much higher than the cost of setting-up and administering a tiered discount program. The significance of the higher set-up and administrative costs is that every dollar that goes for set-up and administration is a dollar that is *not* going to pay energy assistance benefits.

 The program issue: The program issue is raised by the fact that a fixed credit is "fixed." Once determined at the beginning of the program year, the risk that bills will change (based either on weather or on price) lies with the customer. If the customer has a lower bill, he or she pockets the difference. If the customer has a higher bill, he or she bears the burden of the increase.

In addition to creating a conservation incentive, this approach provides operational benefits. The maximum program expenditure is established at the time a customer enters the program. Changes in weather or price will not drive program costs up. In contrast, with a tiered discount, program costs will fluctuate based on both weather and price. If there is a very cold winter (or a very hot summer), with correspondingly higher bills, the program must bear the cost of the higher discounts that will be provided.

Summary

Outside of these two major issues, the tiered discount should operate in much the same fashion as the fixed credit. No inherent differences exist. The tiered discount and the fixed credit are simply alternative ways of delivering benefits. The program remains basically constant.

As with the fixed credit, the tiered discount should be established as a tariffed rate. It should operate as any other tariffed rate. The significance of this is that credit and collection should be identical to any other residential tariff. The tiered discount is not a "program" which low-income customers can go "on" and "off." If the low-income customer pays his or her tariffed rate under the tiered discount, they remain out of the collection cycle. In contrast, if the low-income customer does *not* pay his or her bill under the tiered discount, he or she goes into the same collection cycle as any other residential customer.

The significance of this approach is several-fold. The basic advantage is that this approach requires no new procedures for any small utility. No separate tracking needs to be created. No processes for removing customers, for providing pre-program removal notices, and the like, need to be created. The exact same credit and collection procedures are used; a low-income customer is simply on a different tariffed rate.

PART 2: THE ARREARAGE MANAGEMENT COMPONENT.

The second critical component to a Universal Service Program involves arrearage management. An arrearage management program component is designed to reduce pre-program arrears to a manageable level over an extended period of time. Through an arrearage management program, a customer earns credits toward his or her preprogram arrears over a period of time, so long as the customer remains on the Universal Service Program. By the end of the time period, the household's preprogram arrears will be reduced to \$0.

An arrearage management program component is necessary to help get low-income customers "even" so they have a chance at future success in making payments. It makes no difference to have *current* bills be affordable if the household is subject to service termination for *past due* bills incurred before the program began (known as preprogram arrears). In addition, it makes no sense to have current bills be affordable if the total bill is unaffordable due to payment obligations required to retire past arrears.

 While some utilities simply forgive all arrears brought into a Universal Service Program at the time the program begins, most utilities provide arrearage management over an extended period of time. In the latter situations, the time period over which to provide preprogram arrears credits

needs to stay within the reasonable planning horizon of the customer. ¹⁶ The program design in this report incorporates an arrearage management period of two years. Arrearage credits are earned on a monthly basis. ¹⁷

No prerequisite is proposed for the offer of arrearage management credits. While at first blush, it may seem desirable to make the grant of credits toward preprogram arrears contingent upon full and timely payment of current bills, ¹⁸ there are both policy and operational reasons not to do this.

First, there are the operational issues. To implement such a contingent credit, the local utility would need to develop an information system process that determines, on a monthly basis, not only whether the full bill has been paid, but whether it has been paid on a timely basis. Depending on the answer to those inquiries, different bills will be generated by the utility (either one reflecting an arrears credit or one not reflecting such a credit). Layering a process for "curing" missed payments adds further administrative complexity.

Second, from a policy perspective, program administrators have learned that the best "incentive" for making full and timely payments is to have customers taking service pursuant to the Universal Service Program be subject to the same credit and collection processes as all other customers. In addition, creating layer upon layer of "incentives" for payments clouds the fundamental underlying proposition. That proposition posits that, in recognition of the underlying unaffordable burden posed by utility bills at fully-embedded rates, the low-income customer is allowed to take service under the Universal Service Program. Given that utility response to unaffordability, customers then have the responsibility to make full and timely payment of their bills irrespective of any further "incentive."

Accordingly, nonpayment for service provided under the Universal Service Program will be met by placing the customer into the same collection process as that which would be faced by any other customer. Nonpayment does not result in mere suspension from the program. Nor does it result in mere loss of arrearage management credits. Nonpayment under the Universal Service Program will place the program participant in the collection process.

This program proposal recommends that Universal Service Program participants should make a monthly payment toward preprogram arrears. In this fashion, customers with minimum levels of payment troubles will not receive credits toward their arrears. In addition, in this fashion, universal service customers will bear some responsibility for their preprogram debt.¹⁹

¹⁶ To suggest, for example, that arrears will be reduced to \$0 over a period of four or more years is outside the horizon within which low-income households do their planning.

¹⁷ While arrearage credits are to be <u>earned</u> on a monthly basis, they can be <u>credited</u> to the account (or "posted" to the account) on a quarterly or semi-annual basis. The point at which earned preprogram arrears credits are actually credited is often a matter of billing system programming rather than a program policy question.

¹⁸ When universal service programs were first designed, there was a tendency to think of credits toward preprogram arrearages as an "incentive" for low-income customers to make their current bill payments on a full and timely basis. That belief has been since largely abandoned.

¹⁹ However, some utilities have decided that the cost of developing a billing capacity for the customer copayment is not merited by the amount of revenue produced by the copayment process. These utilities provide credits toward 100% of the preprogram arrears.

The requirement of a customer copayment toward a preprogram arrears, however, should not interfere with the underlying affordability goals of the Universal Service Program. Accordingly, rather than setting a customer copayment at some arbitrary dollar level, this proposal recommends setting the customer copayment level equal to a percentage of income. In this fashion, the payments toward preprogram arrears are explicitly tied to affordability considerations.

The proposed preprogram arrears customer copayment for this program is set equal to one percent (1%) of household income. The operation of such an approach, given assumed different levels of preprogram arrears is demonstrated in the table below. A household with an income of \$10,000 would make a 1% copayment over a two-year period (\$10,000 x 0.01 = \$100/year x 2 years = \$200). Accordingly, if that customer had a pre-program arrears of \$600, the customer would receive an arrearage management credit of \$400 (\$600 arrears - \$200 copayment). A customer with an income of \$25,000 would make a copayment of \$500 over a two-year period. Accordingly, if that customer had a pre-program arrears of \$600, the or she would receive no arrearage management credit. If that customer had a pre-program arrears of \$600, the customer would receive an arrearage management credit of \$100 (\$600 arrears - \$500 copayment).

Operation of a Burden-Based Arrearage Management Customer Copayment							
Income	Copayment			Arrearage Management Credits by Level of Pre-Program Arrears /b/			
	Years of Copayment	Income Pct	Dollar Amt /a/	\$150	\$300	\$600	\$1,200
\$5,000	2	1%	\$100	\$50	\$200	\$500	\$1,100
\$10,000	2	1%	\$200	\$0	\$100	\$400	\$1,000
\$15,000	2	1%	\$300	\$0	\$0	\$300	\$900
\$20,000	2	1%	\$400	\$0	\$0	\$200	\$800
\$25,000	2	1%	\$500	\$0	\$0	\$100	\$700
\$30,000	2	1%	\$600	\$0	\$0	\$0	\$600

NOTES:

/a/ Years of payment x {income x income percent].

/b Level of preprogram arrears minus dollar amount of copayment.

In sum, five critical components of the proposed arrearage management component of a Universal Service Program are proposed above:

Arrears are to be retired over a two-year period;

Customers are to make copayments toward their arrears;

> Copayments are to be set equal to an affordable percentage of income (1% per year);

> No pre-condition is established for the grant of arrearage management credits; and

➤ The appropriate response to nonpayment is to place the program participant in the same collection process as any other residential customer.

PART 3: THE CRISIS INTERVENTION COMPONENT.

The third critical component of a Universal Service Program involves crisis intervention. The need for a crisis intervention program arises from three different attributes of low-income households.

First, one attribute of low-income households is their lack of cash assets to allow them to weather the storm of unexpected expenses or unexpected loss of income. Low-income households do not have the ability to withstand, for example, a significant expense associated with a family emergency, or the loss of income associated with such an emergency. Given such exigencies, there is a likelihood that some proportion of customers taking service under the universal service program will have occasional exigencies that can be met through a crisis intervention program.

Second, one attribute of a low-income household is that low wage workers tend to be hourly wage workers. The overwhelming majority of these workers lack paid leave. The need for either medical leave, or family care leave, in other words, leads directly to lost income when paid leave is not provided. The lack of paid leave time may directly affect the ability of a working poor customer to maintain payments on their monthly utility bill. A person working 35 hours a week on hourly wages may lose three days of work simply due to a sick child missing school and requiring care. If no paid leave time exists for that employee, the sick child translates into permanently lost wages.

Third, low wage workers tend to have lower quality jobs, often marked by considerable income fluctuations due to the number of hours they are called upon to work. The number of lost hours, and thus the amount of lost wages, is referred to as involuntary part-time employment. This fact of unstable income presents no commentary on the working poor individuals themselves. Rather it reflects the nature of work in which the working poor find themselves.

Given these attributes of the target population, the crisis component of the Universal Service Program provides a budget to provide crisis intervention assistance on an as-needed basis.

Crisis intervention assistance should not be based on income eligibility such as that established for the rate affordability assistance. Crisis intervention is as frequently triggered by unusual expenses as by persistently low-income. A senior citizen facing medical expenses, as well as a working poor household facing substantial automobile repair expenses, may be marginally capable of paying their monthly bills but for their unusual expenses. The agency or community-based organization administering crisis interventions should be provided the flexibility to distribute crisis intervention funding on an as-needed basis rather than be bound by income limitations.

Given this, assistance provided through the crisis intervention component should be on a limited-time basis. The crisis intervention is intended to help meet financial exigencies rather than to provide monthly rate affordability assistance to customers.

As a general rule, universal service programs in the United States set their crisis funding component equal to a multiplier of the total rate affordability assistance. Common percentages range from 5% to 6% of the total program budget. This report recommends a crisis fund equal to 5% of the total rate affordability assistance. These funds can best be distributed through the existing provincial crisis assistance program, known as Share the Warmth.

In sum, five critical components of the crisis intervention component of a Universal Service Program are proposed above:

➤ The crisis intervention program component should be set at a multiple of the rate affordability program. The recommended multiple is 0.05.

The crisis intervention component should not be based on income-eligibility;

> The crisis intervention component should provide administering agencies with the flexibility to distribute assistance on an as-needed emergency basis;

> The crisis intervention component should be on a limited-time basis; and

> The crisis funding should be distributed through Share the Warmth, an existing provincial crisis intervention program.

PART 4: THE CONSERVATION AND DEMAND MANAGEMENT COMPONENT.

The fourth critical component to a Universal Service Program involves the delivery of energy efficiency services. Successful implementation of a conservation and demand management program relies on the creation of an ongoing partnership between local community-based organizations (CBOs) and the local utility. The local utility should combine efforts with local CBOs so as to maximize utility investment in cost-effective energy savings measures and maximize total investment in the non-energy savings measures that depress utility benefits.

Unlike the three rate affordability components of the Universal Service Program (rate affordability, arrearage management, crisis intervention), the recommendation here is to set a conservation and demand management budget equal to a designated percentage of total company revenue. That budget would then be applied to the task of delivering conservation and demand management services to the extent that the budget lasts.

 Conceptually, "adequate" funding of the low-income conservation and demand management program means that the utility's low-income conservation and demand management budget should increase until the company exhausts its cost-effective measures. While, in theory, the utility should continue to fund its conservation and demand management programs until the program's marginal costs equal the marginal benefits, in reality, no such "full" funding is ever provided. In light of this, there may seem to be no principled basis upon which to set a low-income conservation and demand management budget. Nonetheless, *one* principle does seem appropriate for regulators to adopt. The extent of low-income conservation and demand management funding should be sufficient to ensure that there are no lost opportunities in any given year.

Lost opportunities arise when the accomplishment of some given task precludes the future accomplishment of additional work at that same dwelling. Some frequent lost opportunities involved with similar utility programs include:

Low-income housing developments: Decisions made by low-income housing developers represent decisions that will hold for the useful life of the measures. Accordingly, if a developer installs a relatively inefficient furnace or hot water heater, or fails to install the most cost-effective level of insulation, it is not likely that a utility will soon revisit that home to install more energy efficient measures. The opportunity to install high efficiency measures is lost at the time of the developer's initial decision.

➤ <u>Unused institutional capacity</u>: Assume the institutional capacity of low-income service providers is 8,000 homes per year in a given utility service territory. These service providers might include local contractors, CBOs involved with delivering conservation and load management services through the Green Communities program, and other forprofit or non-profit institutions. If the combined budget of low-income programs funds only 6,000 homes a year, there is a lost opportunity to increase the conservation and demand management in 2,000 homes. By assumption, the maximum capacity is 8,000 homes per year. That capacity thus cannot be pushed to 10,000 for a year to "make up" the earlier lost opportunity.

Clearly, the two parts of this analysis would need to be combined. There will be unused capacity both in the number of units done per year and in the investment per unit.

As can be seen, one component of a utility low-income conservation and demand management program is a periodic inventory of the institutional capacity to deliver low-income conservation and demand management measures. The inventory should cover the planning period of the utility. If the utility files three-year conservation and demand management plans with regulators, in other words, its inventory should include the existing and projected capacity to deliver low-income services over that three-year period. The budget for low-income conservation and demand management should be sufficient to finance full utilization of the inventoried capacity.

A second component of a utility low-income conservation and demand management program is a periodic inventory of the lost opportunities inherent within the existing delivery of energy and housing services. As with the institutional capacity inventory, if a utility files a three-year conservation and demand management plan with regulators, its inventory of lost opportunities should cover a three-year period.

In sum, the proposed decision rule is that utility funding should be of sufficient magnitude to ensure that there is no unused institutional capacity to deliver cost-effective low-income conservation and demand management service. Stated another way, funding should be adequate such that no lost opportunities occur within the realm of cost-effective low-income conservation and demand management. The local utility's low-income conservation and demand management budget should increase until the company exhausts its cost-effective measures, or until it exhausts the institutional capacity to deliver cost-effective measures, whichever comes first.

The low-income conservation and load management component to the Universal Service Program should deliver a full range of efficiency services. These services would include, but not be limited to:

➤ Energy audits and air sealing services;

➤ Weatherization services;

➤ Heating and cooling systems; and

> Lighting and appliance upgrades.

Jurisdictions such as Pennsylvania have established a funding principle that low-income efficiency improvements should be capped at a certain level. The Pennsylvania cap of 0.20% of total company revenue for that state's Low-Income Usage Reduction Program (LIURP) has generated sufficient funding for low-income efficiency programs and should be adopted in Ontario.

In addition to setting a budget for the conservation and demand management program component, this proposal sets a mission as well. The conservation and demand management program directed toward low-income customers should be explicitly targeted to help advance the resolution of payment troubles and improve the affordability of home energy in addition to simply reducing home energy usage.

Maximizing benefits to all utility customers, whether through reduced traditional energy and capacity costs or through the reduction of costs associated with low-income payment troubles, is dependent upon an appropriate targeting of the low-income program. Two primary alternative decision rules exist to guide targeting a low-income efficiency program:

• To target those with the highest energy usage, believing that these households present the greatest potential for energy savings; or

• To target those with the greatest payment problems, believing: (a) that payment problems and high usage are positively associated; and (b) that these households present the greatest potential for improved energy affordability.

To a certain extent, the difference between the two principles is artificial if one accepts the premise that conservation and demand management can not only generate traditional avoided costs, but can generate avoided costs associated with a reduction in payment troubles as well. It has become well-established over the years that payment-troubles are often associated with higher than average utility consumption. By targeting customers with payment troubles, in other words, a utility implicitly targets its high use customers as well.

The Pennsylvania Public Utility Commission (PUC) has explicitly considered this tie-in between high usage and payment-troubles and the use of each for implementation of the Pennsylvania Low-Income Usage Reduction Program (LIURP). The Pennsylvania PUC found as follows:

the prioritization criteria for the receipt of program services. LIURP eligibility criteria has evolved into a two-part requirement. First, income must be at or below 150% of the federal poverty guidelines. There is an exception to this rule. Up to 20% of the LIURP budget may be spent on customers with an income level in the range 150% to 200% of the federal poverty level. Second, the LIURP experience over the past nine years has shown that high usage is the strongest predictor of high energy savings. Consequently, each of the major electric companies has established company specific minimum usage requirements for each of the three major job types for electric jobs: heating, water heating and baseload. The bottom line is that all income eligible customers do not have a usage profile that warrants the provision of LIURP services.

... we would like to clarify the distinction between LIURP eligibility criteria and

Prioritization for the receipt of program services is as follows. Most importantly, usage is the driver. Once again, we emphasize that in the actual delivery of LIURP services, each electric company has established minimum usage guidelines for each of the three electric job types. It is only after the usage requirement is met that the prioritization scheme is applied. The prioritization process follows two steps. First, among customers meeting the threshold for usage, participation is further prioritized from highest arrearage to no arrearage. Second, a further prioritization is done to further delineate equal usage and equal arrearage candidates. This is done by prioritizing from lowest to highest income.

We have provided this explanation to illustrate that we do not need to specify negative ability-to-pay customers because ability to pay is neither an appropriate eligibility requirement nor a prioritization issue for LIURP. Instead, high usage is the most important eligibility requirement for customers who meet the income guidelines.

* * *

highest users.²⁰

The primary goal of LIURP is to achieve bill reduction through usage reduction. We have elaborated above that high usage is the best indicator for achieving this primary goal of LIURP. Another LIURP goal states that the reduction in energy bills should decrease the incidence and risk of customer payment delinquencies and the attendant utility costs associated with uncollectible accounts expense, collection costs and arrearage carrying costs. In view of this program goal, arrearage prioritization has been appropriately listed as the first prioritization among the

This proposal commends the above-quoted Pennsylvania PUC language for consideration. An identical two-step process (involving: (1) eligibility-setting; and (2) priority setting amongst eligible customers) should be adopted in Ontario.

²⁰ Pennsylvania Public Utility Commission, Re Guidelines for Universal Service and Energy Conservation Programs, No. M-00960890, 178 P.U.R.4 508 (July 11, 1997).

One corollary to the targeting of conservation and demand management to high use, payment-troubled customers involves the benefits derived by a utility that seeks to fully integrate its conservation and demand management functions with other low-income initiatives pursued by the company, itself. This integration may well most commonly fall within the marketing stage of the conservation and demand management program.

The way to operationalize this is to inventory the non-conservation and demand management programs that a utility offers to its low-income (or to its payment-troubled) customers, and then to assess whether targeted conservation and demand management can help make those programs both more effective and more cost-effective.

Again, this process is perhaps best explained by illustration. The issue of a utility's obligation to integrate its offer of conservation and demand management measures with its deferred payment plans for low income households, for example, was raised in a 1991 rate case involving Central Maine Power company (CMP) before the Maine Public Utilities Commission (PUC). In that proceeding, the staff of the PUC submitted testimony concerning CMP's marketing of "energy management services" to low-income customers.

According to information presented in that proceeding, there is a positive correlation between high arrears balances and high usage. The company, according to the PUC staff, "should pursue the implications of the [recent study of payments plans] and undertake a marketing effort that targets high use, low-income customers." The company, according to the staff testimony, was not effective in its marketing.

The state Office of Public Advocate agreed. According to that office, CMP could significantly reduce its write-offs and collection costs by providing energy management services to high usage customers on special payment arrangements. The Public Advocate said that the utility could have saved as much as \$2 million a year "if CMP ha(d) been successful in delivering its Insulation Plus and Bundle Up programs to its special payment arrangement customers."

The Maine PUC acted favorably on the criticisms of the lack of action by Central Maine Power. According to the Commission:

The successful marketing of energy management programs to low-income customers, particularly low-income customers on special payment arrangements, has a clear benefit above and beyond the capacity or energy savings generally associated with demand-side management programs. Low income customers that see a reduction in their bills will be able to manage their bills better. The Company's carrying costs associated with late-paid bills and uncollectibles, which are generally passed on to other ratepayers, should be reduced.

The PUC directed the company to take remedial action.

 In sum, aside from the issue of appropriately targeting its low-income conservation and demand management program, one final question to be pursued in designing a utility-funded low-income conservation and demand management is whether the utility has adequately integrated its low-income conservation and demand management program into all aspects of the company's operation. As illustrated by Maine's special payment arrangements, it is possible for a company

to use low-income conservation and demand management to improve the efficiency and effectiveness of other customer service activities directed toward low-income payment-troubled customers.

Finally, this proposal recommends that the low-income conservation and demand management programs should be piggy-backed with non-utility-funded efficiency programs. The low-income conservation and demand management programs should implement appropriate piggyback initiatives to help increase a program's cost-effectiveness and scope. These piggyback initiatives should involve the existing conservation and demand management programs (to the extent that they exist), as well as affordable housing initiatives.

One approach is to combine utility conservation and demand management dollars with dollars in existing home repair, housing rehab, and first time homebuyer programs to form a single comprehensive program. In this fashion, utility funds can be used on cost-effective energy savings measures. In contrast, the housing dollars will be used as the source of financing for the non-energy savings components of the total program.²¹ The combination of housing programs dollars with utility dollars will eliminate parallel programs by the utility and the government. Instead, a single program will be created serving the combined populations of what the two programs would have served separately. The allocation of particular expenses to the housing program's responsibility or to utility responsibility will be an accounting function of which the low-income household is not aware.

In sum, five critical components of the conservation and demand management program component of a Universal Service Program are proposed above:

➤ Low-income conservation and demand management funding should be funded at the rate of 0.20% of total utility revenues on an annual basis;

➤ Efficiency investments should be targeted on the basis of high usage, but on the existence of payment troubles as well;

➤ A full range of conservation and demand services should be delivered, including but not limited to energy audits and air sealing, weatherization, heating and cooling systems, and lighting and appliance upgrades;

➤ The utility's outreach for the conservation and demand management programs should be tied into other aspects of its customer service operations, including the management of arrears; and

➤ The low-income conservation and demand management investments should be delivered in collaboration and in partnership with existing conservation and demand management and affordable housing programs.

²¹ Non-energy program components would include, for example, outreach and intake, minor non-energy saving housing repairs, health and safety upgrades, and the like.

PART 5: BASIC CONSUMER PROTECTIONS.

This section of the narrative outlines proposed consumer protections to mitigate the disproportionately adverse impacts that certain local utility collection practices impose on low-income customers. The proposed consumer protections do not detract from the effectiveness of local utility collections. The section examines three specific collection practices:

> The imposition of late payment fees;

> The issuance of notices of the disconnection of service for nonpayment; and

> The negotiation of deferred payment plans for arrears.

Each of these will be examined in more detail below.

A. Late Payment Charges

Local utilities in Ontario frequently impose a late payment fee that disproportionately (and adversely) affects low-income customers and which explicitly lacks any cost basis. These late fees disproportionately and adversely affect low-income customers. Not only do higher proportions of low-income customers (compared to all customers) incur arrears (against which a late fee will be charged), but the level of arrears incurred by low-income customers is higher as well. These arrears are largely due to an inability-to-pay rather than to conscious choices to pay other bills prior to paying local utility bills. Increased bills attributable to high prices are associated with increases in low-income payment troubles.

The Level of the Late Fee Relative to Its Purpose

The primary purpose of a utility late payment charge is to compensate the utility for expenses associated with delinquent payments. A customer's delinquent payment of her utility bill can result in two types of expenses to the company. The utility may first experience out-of-pocket collection expenses. A second expense involves the carrying charge associated with delinquent payments. A utility is entitled to compensation for each.

Late payments by utility customers can create out-of-pocket collection expenses for the utility. These expenses might include, for example, the postage associated with delivering reminder notices or shutoff notices, the costs of telephone calls to make "personal contact" prior to a shutoff, and the cost of fuel used in making a premise visit to disconnect service.

A late payment charge designed to compensate a utility for out-of-pocket collection expenses should be based on the decremental cost of collection to the utility. In this fashion, the utility will be compensated for those costs, but only for those costs, that are incurred as a result of the late payment. A decremental cost is the cost that the utility would save should one late payment instead be made in a timely fashion. Use of a decremental cost analysis is necessary to prevent a double compensation to the utility. Without a decremental cost analysis, a utility would collect its costs first through its base rates and then again through the penalty and/or late payment charge.

Local utilities often overcharge their late pyment charges, also, by imposing such charges prematurely. Given the fact that late payment charges are intended only to compensate for out-of-pocket expenses, the imposition of such a charge must be triggered by some event that also triggers the incurrence of the expenses. It is common for a local utility to set a past due date of the 30th day after a bill is rendered, with a penalty and interest charge levied for all unpaid amounts outstanding after that date. With nearly all utilities, however, no collection activity begins at the time the bill first becomes overdue. Customers making payments during that interim period (between the time a bill becomes past due and the time collection activities begin) are paying compensation for collection expenses that were never incurred.

This realization --that payments must be overdue by some time before the utility begins its collection process and thus before the utility begins to incur expenses --is particularly important to ensure that households who pay late, but who do not have collection activities directed against them, are not discriminated against. Discrimination would exist if a late payment fee were imposed on the day after the due date, failing to recognize that collection activity is not initiated until some later date.

In addition to timing, these local utilities effectively have a minimum arrears below which they will not begin any collection activity. Local utility officials generally begin their collection process with the largest bills first. The smaller bills are not made subject to collection interventions. In such an instance, charging the penalty and interest charges immediately after the bill payment due date charges the customer for expenses the local utility has not yet incurred.

The Level of the Late Fee Relative to Costs

A second cost component that a utility is entitled to collect through its late payment fee is the carrying cost of money. There will be a carrying cost irrespective of whether the local utility has to borrow money as a result of the unpaid bills. If the utility borrows money, the interest charge will be necessary to generate dollars to pay the interest expense. Even if there is no borrowing, the failure to pay will generate an opportunity cost for the utility. If the utilities *had* collected the money and not needed to use it immediately to pay expenses, they would have invested that money and received a return on it. The nonpayment thus generates a foregone return.

There are several items that are *not* appropriate to place into an interest rate charged on unpaid bills, however. Administrative overhead costs do not go into the late payment charge. These costs are not caused by the late payment; in addition, they have already been collected through base rates. The late payment charge is not to be a profit center or revenue-raising measure.

In this respect, a comparison of the interest rate to consumer credit interest rates is inappropriate. It is important to recognize that a late payment fee is *not* the equivalent of interest charged in consumer credit transactions. A consumer credit interest rate has cost components that may not be included in a late payment rate. Overhead and depreciation costs, for example, would be included in a commercial interest rate. Those utility costs, on the other hand, are already included in base rates. While an interest rate for consumer credit transactions will include a component for uncollectibles, to the extent that the utility has uncollectibles, those expenses are already included in the bill subject to collection.

The maximum carrying cost of money for a utility will be the short-term borrowing rate incurred by the utility. Utilities do not incur long-term debt to cover unpaid bills by home energy customers. A long-term interest rate would thus be an inappropriate measure for an interest charge.

The annual cost of short-term borrowing is likely to range between 2.1 % to 2.6% in today's environment. The addition of a reasonable premium (calculated in terms of basis points) would provide adequate compensation for out-of-pocket credit and collection expenses. Local utility annual late payment charges above 6% (0.5% per month) are excessive under these circumstances.

What the non-cost-based late fee <u>really</u> does is to generate a stream of revenue by charging low-income customers *more* than it costs to serve them. After charging such a fee, local utilities then take that money and redistribute it to non-low-income customers by using that money to lower rates on a per unit of commodity basis. The revenue generated by the late fee, in other words, simply flows into general revenues. Since there are more non-low-income customers than low-income customers, and since those non-low-income customers have higher consumption than do low-income customers, the dollars that have been disproportionately *contributed* by low-income customers will be primarily *returned* to non-low-income customers in the form of reduced rates.

This redistribution is simply exacerbated by the efforts of local utilities to increasingly isolate specific components of the collection process and to charge a separate fee for each collection activity rather than to have the late fee pay for the costs of the late payment. Low-income customers, therefore, who are disproportionately payment-troubled, thus not only pay the explicitly non-cost-based late fee, but pay the other specific collection fees as well.

The Level of the Late Fee Relative to Incentives

Remember, again, that since low-income customers are substantially more likely to have arrears, and that their arrears are likely to be higher than non-low-income customers, low-income customers pay a disproportionate amount of the late fees. In addition, again, the policy basis for the lack of cost-basis for the late fee rate was to make utility bill late fees competitive with credit card interest rates so that there would be no incentive for customers to pay their credit cards prior to paying their utility bills. Whatever relationship might have once existed between the late payment fee and credit card interest rates, however, no longer exists.

It comes as no surprise that interest rates in today's economy are hitting historical lows. One additional phenomenon that corresponds to this downward plunge in interest rates is the downward trend in credit card interest rates as well. As of late 2005, the average interest rates on credit card debt was less than 13%. As of that date, it was not difficult to obtain annual credit card interest rates at 10% or below. Despite this decrease in the interest rates with which late payment charges were purportedly designed to compete, the non-cost-based late payment charges has remained at their previous levels. Whatever policy basis supported the level of the late fee in the past simply no longer exists.

²² Remember, too, that carrying a credit card balance is not an indicator of payment-troubles.

The Disproportionate Impact on Low-Income Customers

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This late payment fee disproportionately and adversely affects low-income customers. The basis for reaching this conclusion largely rests with information generated in the energy utility industry. While the notion that payment-troubled customers are disproportionately low-income is commonly accepted conventional wisdom, ²³ remarkably little empirical data has been collected to verify or to challenge that conventional wisdom. National data reported by the U.S. Census Bureau indicates that, in the United States, the proportion of households in arrears at any given point in time is substantially higher for the low-income population than for the population as a whole. One 1995 census study, for example, reported that while 9.8% of non-poor families could not pay their utility bills in full, 32.4% of poor families could not do so. According to the Census Bureau, while 1.8% of non-poor families had their electric and/or natural gas service disconnected for nonpayment, 8.5% of poor families suffered this same deprivation.²⁴

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Moreover, late payment fees disproportionately affect low-income customers in that these customers do not gain the incentive provided through high fees. The argument often posited in support of high late payment fees is that such fees are necessary to serve as a disincentive for customers paying their credit card bills prior to paying their utility bills. Even accepting this incentive function as a legitimate policy reason to impose non-cost-based late payment fees, the incentive function bears little relationship to the finances of low-income customers.

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In January 2003, staff of the Federal Reserve Board (FRB) published its analysis of consumer finances based on the FRB's 2001 Survey of Consumer Finances. 25 According to this FRB staff analysis, few low-income customers have credit cards and fewer still carry credit card balances. The FRB reports that while 44.4% of all households hold a credit card balance, only 30.3% of households in the bottom 20% of income (the bottom quintile) do. This stands in sharp contrast to the proportion of households in the second through fourth quintiles of income (between 50% and 60% of whom hold credit card debt). This data simply cannot be reconciled with the impact of late fees on low-income customers. These low-income customers are charged a non-cost-based late fee to have those fees be competitive with credit card debt that they do not hold on credit cards that they do not own.

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Late Fee Proposal

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Late fees should be waived for identified low-income customers. Low-income customers can be identified through the eligibility process discussed in detail above.

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B. Disconnect Notices

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As with any other business, Ontario's public utilities have the right to expect the bills rendered for their services to be paid. However, also as with any other business, these utilities must operate under limits on how they can seek to collect their unpaid bills. Designated credit and collection practices, because of their unfair and/or deceptive nature, have been found to

²³ This is not to say that all low-income customers are payment-troubled, nor that all payment-troubled customers are low-income. It is merely to say that low-income customers are disproportionately payment-troubled. ²⁴ U.S. Census Bureau, *Extended Measures of Well-Being: 1992*, P70-50RV (November 1995).

²⁵ Ana Aizcorbe, et al. (January 2003). "Recent Changes in U.S. Family Finances: Evidence from the 1998 and 2001 Survey of Consumer Finances," Federal Reserve Bulletin (January 2003).

constitute inappropriate collection practices. Placing limits on these practices does not deny either the existence or the legitimacy of the underlying debt. It merely recognizes that the interest of the vendor in collecting its bills is outweighed by the interest of the customer in being free of unfair and oppressive collection tactics.

For Ontario's utilities, the disconnection of service for nonpayment, along with the issuance of notices associated with such service terminations, should be governed by these same principles. The following recommendations flow from this discussion.

Notices with no Present Intent to Disconnect

 Local utilities shall not threaten to terminate service when they have no present intent to terminate service or when actual termination is prohibited. Notice of the intent to terminate shall be used only as a warning that service will in fact be terminated in accordance with the procedures set forth in utility regulations, unless the ratepayer or occupant remedies the situation which gave rise to the enforcement efforts of the utility.

It is common for local utilities to send out shutoff notices when they have no present intent to terminate service. Either the utility does not have the staff to effectuate a service discontinuance for each customer receiving a notice of discontinuance or the utility finds that it is not cost-effective to discontinue service for customers with arrears that are either less than some internally established "treatment amount" or younger than some internally-prescribed threshold.

Aside from the unlawful nature of threatening collection activities when no present intent exists to engage in those activities, the provision of a notice of a service discontinuance when there is no present intent to engage in the discontinuance is counterproductive to the entire purpose of notice with which to begin. One purpose of a notice is to provide a clear and believable warning that a service termination is about to occur. In response to such a notice, the customer must either take the steps necessary to prevent the service termination or take those steps needed to protect himself or herself against the dangers to life, health and property that might result from the loss of service.

It should be noted that providing notice of a pending discontinuance of service, when in fact such discontinuance is not imminent or intended, can be destructive to a customer's life, health and property. This is particularly true for low-income consumers. One study by the Iowa Department of Human Rights, for example, found that, with energy bills, Iowa energy assistance recipients go to extraordinary lengths to pay unaffordable bills.²⁶ The Iowa study found, for example, that:

More than 12% of the more than 3,000 Iowa survey respondents reported going without food for at least one meal a week to try to save enough money to pay their utility bills.

➤ More than 20% reported going without medical care, by either not filling prescriptions, taking prescription medicines in lower than prescribed doses, or by

²⁶ Joyce Mercier, Cletus Mercier and Susan Collins (June 2000). *Iowa's Cold Winters: LIHEAP Recipients' Perspective*, Iowa Department of Human Rights: Des Moines (IA).

skipping or postponing doctor's appointments in order to save money to pay for utility bills.

➤ Nearly 10% reported not making their rent or mortgage payments in order to pay their home heating bills.

 The presence of these responses to threatened loss of service was confirmed by research June 2004 research with respect to Missouri low-income households,²⁷ as well as by national research completed in April 2004 for the National Energy Assistance Directors Association (NEADA).²⁸ Low-income customers should not be forced into making these decisions by threats of non-existent collection actions.

Aside from the social cost of empty collection threats, there is a business cost as well. A study by the New York Public Service Commission staff, for example, reported that:

The effectiveness of Final Termination Notices as a means to encourage payments or to make payment arrangements prior to field action has deteriorated. The rate of customer non-responses to Final Termination Notices has increased from 33% in 1983 to 46% in 1987. This may result in part from customer perception that utilities threaten to terminate service, but rarely do. In 1983, 16% of the customers who did not make arrangements on their arrears in response to a termination notice had their service terminated; in 1987, only 9% of those customers had their service terminated.²⁹

For both these business and social reasons, as well as because it is in violation of consumer credit law in any event, regulators should make clear that sending a notice of a pending service termination when there is no present intent to undertake that termination is prohibited.

Time Limit on Efficacy of Shutoff Notices

A written notice of service termination for nonpayment shall become void if the local utility has not disconnected service within 15 days of the date indicated on the notice for termination. If termination of service is not accomplished within 15 days following the final notice required before a service discontinuance, the utility shall follow the same procedures for providing new notice

As discussed above, a notice of discontinuance serves several different functions. As time passes subsequent to the initial issuance of the notice, the efficacy of the notice deteriorates. This recommendation recognizes that at some point after a final notice of discontinuance is issued, if no action has occurred, the purpose of the notice is no longer served. Under these circumstances, a new notice must be issued. Since the passage of time makes the initial notice void, it is as

²⁷ Roger Colton (June 2004). *Paid but Unaffordable: The Consequences of Energy Poverty in Missouri*, National Low-Income Energy Consortium: Washington D.C.

²⁸ Apprise, Inc. (April 2004). *National Energy Assistance Survey: Final Report*, National Energy Assistance Directors Association: Washington D.C.

²⁹ David Sawyer and Phillip Teumin, *Gas and Power Utility Uncollectibles and Collection Activity*, A Report by the consumers Services Division of the New York State Public Service Commission.

though the initial notice had not been issued in the first place. Accordingly, the new notice must be issued using the same procedures as the initial notice.

Limits on Shutoff Notices Not Acted Upon

 A local utility shall not make a practice of delivering more than two consecutive notices of discontinuance or past due bills without engaging in the collection identified in the notice. Through a shutoff notice, a consumer should be provided with the information she needs to quickly and intelligently take available steps to prevent the threatened termination of service. The notice should meet sufficiently stringent standards so as to protect all customers, given that customers are of various levels of education, experience and resources. The notice should be made at a meaningful time and in a meaningful manner. It should present truthful information.

 To meet these standards, the notice should contain specific information and meet specific standards. In providing information regarding the pending disconnection, the notice should state the reasons for having the utility seek the termination of service. In addition, to fulfill the notion that the notice be "meaningful," it should give a clear and believable warning that termination is about to occur.

The issuance of notices must be read in light of the purpose of a notice. To meet the requirement that the notice be "meaningful," it must give a clear and believable warning that termination is about to occur. The key word in this formulation is that the notice be "believable." One can, for example, consider the United States federal district court case of *Palmer v. Columbia Gas Co.*, where the utility's notice was invalidated when that utility sent out 120,000 to 140,000 shutoff notices each year while actually disconnecting only 6,000 households.³⁰

Like Columbia Gas, Ontario's local utilities, by sending repeated disconnect notices, with no collection follow-up, destroy the message contained by the notice. The recommendation above seeks to prevent this situation.

C. Curing/Renegotiating Deferred Payment Plans for Arrears

This section proposes greater flexibility in renegotiating and allowing for the "cure" of broken payment plans entered into by low-income customers. In negotiating a deferred payment plan for arrears (PPA) with a customer that is unable to pay the bill in full, a local utility should consider, amongst other things, the customer's ability to pay. Having negotiated such a plan, however, a utility has considerable flexibility to make the plan "work" or not if PPA payment terms are breached.

Three recommendations are advanced with respect to the renegotiation of PPAs with low-income customers in the event of a default on the plan.

If a customer's economic or financial circumstances change during the effective period of a deferred payment agreement, and not more than 14 days have elapsed since the customer defaulted on the deferred payment agreement, the utility shall be obliged if the customer so requests, to renegotiate the terms and conditions of the

³⁰ 342 F.Supp. 241, 242 - 243 (N.D.Ohio 1972)

deferred payment agreement, taking into consideration the changed economic and financial circumstances substantiated by the customer. The reinstatement of a previously defaulted deferred payment agreement shall not prevent the renegotiation of a deferred payment agreement.

➤ If a customer defaults on a deferred payment agreement but has not yet had service discontinued by the utility, the utility shall permit such customer to be reinstated on the deferred payment agreement if the customer pays in full the amounts which should have been paid up to that date pursuant to the original payment agreement (including any amounts for current usage which have become past due).

An installment payment plan agreement shall consist of regular monthly installments. The terms shall be extended if, and to the extent necessary, to ensure that average monthly installment payments do not exceed a one-month average bill.

The Basis for the PPA Recommendations

These proposals prevent a local utility from falling into the classic error of equating the term "ability to pay" of a customer with the "income" of a customer. The need to avoid this error was explained in a study performed for the National Fuel Funds Network (NFFN) in 2002.³¹ That study examined reasonable payment plan practices for working poor households in particular.

 That NFFN study reported that standard regulations adopted by utility regulators provide that a utility shall take into account designated factors in deciding what payment plans are "reasonable." These factors include, but are not limited to, "ability to pay." The phrase "ability to pay," however, is often treated as being synonymous with "level of income." If a household's income is sufficiently high, the reasoning goes, the household is deemed to have an ability to pay its home energy bills.

Taking into account the "ability to pay" of the working poor should involve *more* than simply taking into account income level. The *stability* of income is one additional aspect of the ability to pay of the working poor. The negotiation of a deferred payment plan for utility arrears should take into account the potential instability of income amongst the working poor as one aspect of ability to pay. Income for the working poor, in particular, can be erratic and unpredictable. A working poor customer may not *know* in April what his or her income is going to be in July or August, let alone in the following December or January. Periods of unstable wages may make payments that were reasonable in April unreasonable at a later date.

Working poor families tend to find themselves in lower quality hourly wage jobs, often marked by considerable income fluctuations due to the number of hours they are called upon to work. The Urban Institute quantified the types of occupations which characterize the working poor. Even aside from the level of wages, the presence of hourly wages and unpredictable hours mark occupations that are the province of the working poor.³²

Game, at 10 – 11, Urban Institute: Washington D.C.

National Fuel Funds Network (March 2002). A Fragile Income: Deferred Payment Plans and the Ability to Pay of Working Poor Utility Customers, National Fuel Funds Network: Washington D.C.
 Acs, Gregory, Katherin Ross Phillips and Daniel McKenzie (May 2000). Playing by the Rules but Losing the

The NFFN study finally reported that families in the bottom quartile of income are significantly less likely to have access to paid sick leave, paid vacation leave, or flexible work schedules than families with higher incomes. More than three fourths (76 percent) of workers that are in the bottom quartile of family income lack regular sick leave; more than half (58 percent) do not have consistent vacation leave. Families in the bottom income quartile are more likely than other workers to lack *both* sick leave *and* vacation leave.

The lack of paid leave time may directly affect the ability of a working poor customer to maintain payments on a deferred payment arrangement. A person working 35 hours a week on hourly wages may lose three days of work simply due to a sick child missing school and requiring care. If no leave time exists for that employee, the sick child translates into permanently lost wages. Personal illness, too, results in permanently lost wages, whether illness keeps a worker away from his or her job for a day, for two days, or for a week.

One of the primary recommendations of the NFFN report was to avoid the one-strike-you're-out payment plan structures addressed by this recommendations.

Finally, monthly installment payments should be capped at a level equal to a one month average bill. Keeping total bills at an affordable level increases the likelihood that the bill will be paid and the installment payment agreement will be maintained. If an arrears is large enough that its retirement would require a payment in excess of a one month average bill, there has not only been nonpayment by the customer, but non-collection by the utility. The burdens of such non-action on the part of each party to the transaction should be shared in such instances.

PART 6: LOW-INCOME COLLECTIONS REPORTING.

 The final critical component of a Universal Service Program involves imposing specified low-income collections reporting requirements upon the local utility. Reporting requirements should build on the reporting requirements incorporated into a variety of similar programs in the United States, including the New Jersey Universal Service Fund (USF) program. This reporting allows utility regulators, utility staff, community advocates, and other interested parties to track the impact of the Universal Service Program on collection outcomes for participating customers.

 Given this focus on results, in subsequent years, it will be possible to answer the question: "are low-income customers better off today because of this Universal Service Program?" What is accomplished from a reporting perspective is the generation of a set of data that allows regulators, the industry, and the community to review not that "x" amount of money has been spent, or that "y" numbers of low-income customers have been reached, but that certain performance goals have been accomplished.

A list of the elements of a Universal Service Reporting system is provided below.

Data to be Include	led in Collecti	ons Report
For Confirmed	Low-Income (Customers
Report	Frequency /a/	Notes
Number of Universal Service Program participants	Monthly	
Distribution of full retail bills	Monthly	Bill bands to be determined.
Number of accounts	Monthly	Active accounts
Number of discontinuance notices	Monthly	
Number of accounts with pre-program arrears	Monthly	
Number of accounts successfully retiring arrears	Monthly	
Telephone contacts	Monthly	Tracking inbound and outbound calls should occur separately if available.
Number of residential field visits	Monthly	
Number of residential terminations	Monthly	
Number of residential reconnections	Monthly	
Charge-Offs (Gross)	Monthly	Number of accounts and total dollars
New deferred payment arrangements	Monthly	
Distribution of overdue accounts by dollar amount	Monthly	Number of accounts and total dollars (bill bands to be determined).
Distribution of overdue accounts by payment status (i.e., current, 30 days, 60 days, 90 days or more)	Monthly	Number of accounts and total dollars.
NOTES: /a/ Information may be reported on a less frequer identified. Monthly data can be reported on a quarter		s the data is reported for the time periods

PART 7: COST RECOVERY.

The rate affordability program described in this document focuses on a ratepayer-funded rate affordability program. This stands in sharp contrast to programs funded, in whole or part, by state and/or federal tax dollars. The national program in the United States, called the Low-Income Home Energy Assistance Program (LIHEAP), is a federally-funded state block grant program.³³

A January 2006 survey of the 50 states (and the District of Columbia) found that 26 states plus the District provide rate affordability assistance through programs where the costs are recovered, in whole or in part, directly from increased utility charges to other ratepayers.³⁴ The six states with the largest programs include:

➤ California: \$453 million

> Pennsylvania: \$215 million

➤ Ohio: \$200 million

➤ New Jersey: \$160 million

³³ Pursuant to a block grant program, a state is provided with an allocation of money each year to be distributed through a program design largely of its own choosing. Eligible households are neither assured of receiving benefits from the program, nor assured of receiving any particular level of benefits. When the state's allocation is depleted, the distribution of funds stops. In contrast to a "block grant" program are "entitlement" programs. Under an entitlement program, eligible households are entitled to receive federally-prescribed benefited. In essence, the federal government will increase funding of the initial appropriation is insufficient to serve all eligible households that, in fact, apply for benefits.

³⁴ The District of Columbia will henceforth be included within references to "states."

➤ Illinois: \$65 million

➤ Massachusetts: \$48 million.

Each of these six states has a well-developed rate affordability program. In each instance, the costs of the programs are assessed to all customer classes (with the exception of Pennsylvania).³⁵ In California, all customer classes pay a public purpose charge. In Pennsylvania, customers In Ohio, all customer classes are assessed via a rider to support low-income rate assistance. In New Jersey, all customer classes pay into the Universal Service Fund (USF) via a volumetric charge on all electric and natural gas bills. In Illinois, the program (SLEAF: Supplemental Low-Income Energy Assistance Fund) is funded by a flat fee on all residential account, with a higher flat fee from commercial and industrial customers. In Massachusetts, the costs of low-income programs are recovered from all of the state's electric and natural gas distribution customers. In all 27 states, the programs are funded with ratepayer dollars (rather than government dollars).

In these 26 states, there is a substantive split between states where the cost recovery mechanism was created by legislation and where the cost recovery was authorized under the generic regulatory authority exercised by state utility commissions over natural gas and electric utilities. Within the six largest state programs, for example, Pennsylvania, Ohio and Massachusetts were all authorized by state regulatory authority without explicit legislative approval. In contrast, California, New Jersey and Illinois all implemented programs in response to a legislative directive to do so.³⁶

PART 8: BENEFITS OF LOW-INCOME AFFORDABILITY PROGRAM

There can be little question today but that low-income universal service programs not only can, but do, provide tangible benefits to the investors and nonparticipating customers of the companies that operate them. The discussion below separately considers the advantages of low-income rate assistance, as well as conservation and demand management, programs.

A. Low-Income Conservation and Load Management Programs.

The existence of indirect financial benefits to utilities arising from conservation and load management programs targeted specifically to low-income households was first postulated in 1987. In that analysis, low-income advocates stated that targeted conservation and load management programs had advantages that went beyond the traditional energy and capacity savings associated with conservation and load management measures:

The cost-effective reduction of system costs is relevant and important in every part of the business operations of the utility, not simply to the power supply function. Accordingly, a utility should be concerned with the problem of nonpayment, overdue payment, and partial payment of utility bills. Bad debt³⁷ arises when

³⁵ The Pennsylvania PUC is reconsidering this policy in a pending proceeding. Docket M-00051923.

³⁶ In each of these instances, the state legislation not merely authorized the program, but mandated it.

³⁷ "Bad debt" was specifically defined in the article as the costs associated with delinquent payments. "The term 'bad debt' in this article, therefore, is to be distinguished from its general usage as synonymous with 'uncollectibles.'

ratepayers demand power from the system and then do not pay for it on a timely basis.* **[A] new conservation program [can be proposed] that is justified on an avoided cost basis. The proposal rejects the historical view that avoided costs include only an energy and a capacity component. Instead, it introduces the notion of avoided bad debt. As long as the conservation program costs less than the bad debt it will avoid, the program is cost-justified.³⁸

The theory gained credence when two researchers in Minnesota and Wisconsin began to empirically find such savings associated with delinquent payments. According to Quaid and Pigg, traditionally, impact evaluations of low-income weatherization programs had focused on measuring energy savings, and had neglected quantification of other potential benefits.

One such benefit relates to the financial aspect of reducing energy use. Low-income households often get behind in paying their bills. Reducing energy consumption in these households may set off a chain of impacts: lower, more affordable utility bills; fewer unpaid utility bills; lower past-due bills (arrearages); and ultimately, lower utility costs to process past-due accounts, and lower utility write-offs from uncollectible debts.³⁹

The benefits identified are far from conceptual. Some utilities are beginning to capitalize on this recognition of the expanded avoided costs associated with conservation programs targeted to payment troubled households. The discussion below will set forth some of the research that has been done, or is being done, by various utilities in furtherance of this concept.

Columbia Gas Company of Pennsylvania

Columbia Gas of Pennsylvania has performed perhaps the most sophisticated analysis of arrears reduction associated with conservation and load management strategies directed toward low-income households. Columbia Gas began its evaluation with the proposition that:

the realization that fuel savings often lead to reduced billings warrants the study of secondary and tertiary non-energy impacts. If reduced customer billings result from energy conservation programs, then it is reasonable to suggest that the utility has made its service more affordable for program participants. 40

 In its evaluation of the company's usage reduction efforts, evaluators introduced two measures: utility shortfall and customer billing deficit.⁴¹ Utility shortfall is the difference between the billings and the total amounts applied to the account. Customer billing deficit is the difference between the billings and the amount paid directly by the customer (as opposed to being paid by public assistance and the like).

³⁸ Colton, R. and Sheehan, M. "A New Basis for Conservation Programs for the Poor: Expanding the Concept of Avoided Costs," 21 *Clearinghouse Review* 135, 139 (1987).

³⁹ Quaid, M. and Pigg, S. (1991). *Measuring the Effects of Low-Income Energy Services on Utility Customer Payments*, Washington State Energy Office: Olympia, WA.

⁴⁰ Monte de Ramos, K., *et al.*, "An Assessment of Energy and Non-Energy Impacts Resulting from the 1990 Columbia Gas Low-Income Usage-Reduction Program," *Proceedings of the 1993 Energy Program Evaluation Conference*, at 771, Energy Program Evaluation Conference: Chicago. ⁴¹ *Id.*, at 775.

We found that both utility shortfall and customer billing deficit were improved as a result of the 1990 LIURP. The control group had an average monthly utility shortfall equal to 3% of the average monthly billing during the pre-program period; this rose to a 10% surplus during post-program period. A similar change occurred for program participants, who went from a 3% utility shortfall to a surplus of 15% in the post-program period. This represents a control-adjusted improvement of 5%, which proved to be statistically significant.⁴²

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The *actual* expected improvement should be even more, Columbia Gas noted.

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Given that the average utility bill for program participants in the post-program period was \$62, the expected total payments for the month would be \$65 (\$62 + 5%). We feel this amount could be improved. The LIURP participants lost significant amounts of state and federal [fuel] assistance relative to the control population. Since the change in assistance amounts is unexplained, it is possible to hypothesize that the levels of public assistance could remain constant between the pre- and post-program period. If that were the case, the expected monthly payment would have been \$79--a surplus of \$17 per month per participant.⁴³

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25 26 In addition to the utility shortfall, Columbia Gas had its second measure of payment improvement: the customer billing deficit. The utility found that this deficit was improved by 14 percent of the average monthly billing when compared to the control group. Participants of LIURP paid 58 percent of the average monthly billing in the pre-program period, while in the post-program period, LIURP participants paid 75 percent of the average monthly billing. This compared with the control group, which went from paying 64 percent of the average billing to 67 percent of the average billing. While the reduced billing deficit was statistically significant for the program participants, the control group change was not.⁴⁴

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We found the levels of customer payment remained significantly constant for both the study group and control population through the pre- and post-program periods. As a result of LIURP, monthly billings were reduced for the program participants while the monthly billings remained constant for the control group. This allows the participants' payments, which remained constant, to represent a higher portion of the overall bill. This suggests that Columbia Gas of Pennsylvania improved the affordability of service for LIURP participants without substantive changes in customer payment behavior.⁴⁵

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Wisconsin Gas

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Wisconsin Gas Company has implemented a pilot program explicitly designed to use conservation measures as a means to reduce the costs associated with delinquent payments and bad debt. The purpose of the study, Wisconsin Gas said, was "to examine the effects of Wisconsin Gas

⁴² *Id.*, at 775.

⁴³ *Id*

⁴⁴ *Id*.

⁴⁵ *Id*.

Company's Weatherization Program on the arrearages of low-income customers."⁴⁶ Wisconsin Gas divided its study homes into two groups: (a) single family homes; and (b) two-family homes.⁴⁷

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For single family homes, Wisconsin Gas experienced an overall therm savings of 23.4 percent.⁴⁸ Moreover, therm savings based on heat load were computed. The company produced "an overall single family heat load savings rate of 30.7 percent* * *."⁴⁹ Two-family homes generated similar results.50

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12 13 Wisconsin Gas found that not only did the program reduce arrears for households, but the company recognized significant savings from the program as well. According to the company, the program reduced the customers with \$100 of annual arrears by nearly 300 percent.⁵¹ Moreover, Wisconsin Gas found that it received a 20 percent return on its weatherization investment, strictly from the reduced nonpayment, and before considering traditional avoided costs, in the first year of the program.

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In sum, Wisconsin Gas concluded from its study:

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The study indicates that single family dwellings generated on average \$353 less annual arrears after weatherization. For the two family group, weatherization reduced arrears \$502 annually. Taken a step further, for 1,300 dwellings weatherized annually and split evenly between single and two-family jobs, over \$550,000 in billed arrears or approximately \$360,000 in gas cost would have been avoided.⁵²

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Finally, Wisconsin Gas concluded, "within the parameters of this study, 20 percent of the study group would have generated \$0 or less annual arrears with weatherization as compared to 5 percent without. This reflects favorably on weatherization potential as an arrears eliminator."53

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Connecticut Light and Power Company

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The use of DSM as an "arrears avoidance" technique is not limited to utilities that may have high uncollectibles. Consider Connecticut Light and Power (CL&P), a Connecticut investor-owned electric subsidiary of Northeast Utilities (NU). CL&P was a utility that had a bad debt ratio of less than one percent (0.67%). In NU's December 1991 evaluation of the CL&P low-income DSM program, the utility found:

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Overall, the data indicated an improvement in the average *monthly* change in arrearage of \$9.73 for the 1989 participants and \$18.77 in 1990.* * *(One plan)⁵⁴

⁴⁶See, Weatherization Arrears Savings, Wisconsin Gas Company (April 1988).

⁴⁷ The company stated, however, that "due to the integrated nature of two-family energy use and weatherization measures, two-family accounts were treated as one dwelling unit." Id., at 1.

⁴⁸ While the savings ranged widely between units, the company noted that 64 percent of the single family homes fell in the 10 percent to 35 percent savings range. *Id.*, at 2.

⁴⁹ *Id.* Again, while the savings ranged widely between units, 60.2 percent of the single family homes fell in a range of 25 percent to 50 percent savings ⁵⁰ *Id.*, at 5. Over 70 percent of the dwellings fell in the 10 percent to 35 percent savings range.

⁵¹ *Id.*, at 2.

⁵² *Id.*, at 6.

⁵³ *Id*.

was specifically targeted to payment-troubled customers, with the express purpose of reducing arrearages.* * *(This plan) was highly successful in this regard. The average (monthly) improvement in arrearages among plan E4 participants was approximately \$40.00 for 1989 and \$28.00 for 1990. 55

The Northeast Utilities effort, begun in 1989 in conjunction with other interested parties in Connecticut, implemented a pilot weatherization program directed at low-income payment-troubled customers. The program, called Plan E4, provided for a maximum investment in conservation and load management of \$1500. Participants must have annual income at or below 200 percent of the Federal Poverty Level and the customer's account must be "seriously delinquent." An account having \$200 or more in arrears qualified.

Niagara Mohawk Power Company

In a different program, participants in an energy education program offered by Niagara Mohawk Power Company, an investor-owned electric utility, in conjunction with its company-financed weatherization program improved their payment patterns in two ways, according to Niagara Mohawk's evaluation.⁵⁷ "First," the utility's report said, "through the affordable payment plan -- which guaranteed that their utilities would not be shut off as long as they made a mutually agreed-upon payment amount-- they increased the frequency of their monthly utility payments to almost 100 percent. In contrast, Groups 1 and 2 participants made their monthly utility payments about 50 percent of the time." Second, although the monthly payment amount was as low as \$10 per month for participants with very low incomes (and as high as \$190), Education participants "increased the average amount of total dollars paid to the utility over the pre-treatment period." Second in the percentage of the utility over the pre-treatment period."

According to the company's evaluation, while all low-income households incurred new arrears, those who had received the weatherization services had fewer new arrears than those who did not. Moreover, the company found, the new arrears for the weatherized households likely arose because the provision of weatherization services was matched with a decrease in fuel assistance. "If those [fuel assistance] dollars had been received at the previous level, it is probable that [the weatherized] households would on average *not* have built up new arrears."

Commonwealth Electric Company

Similar results can be obtained for electric companies. One investor-owned *electric* company in Massachusetts, for example, has considered an arrears control program using conservation as the mechanism. COM/Electric found that "from the analysis, a Bad Debt Program appears to be not only theoretically sound, but also empirically supported for electrically heated homes and for homes having electric water heaters. It also appears beneficial to offer the program to 'other'

⁵⁴ This plan was called Plan E4.

⁵⁵ ICF Resources (1991). *Program Evaluation: Weatherization Residential Assistance Partnership (WRAP) Program: Volume I, Final Report*, Northeast Utilities: Berlin, CT.

⁵⁶ Other programs were implemented at the same time directed toward other populations.

⁵⁷ Harrigan, M. (1992). Evaluating the Benefits of Comprehensive Energy Management for Low-Income, Payment-Troubled Customers Alliance to Save Energy: Washington D.C.

 $^{^{58}}$ *Id.*, at 2, 47 - 61.

⁵⁹ *Id*. ⁶⁰ *Id*.

⁶¹ Id. (emphasis added).

homes in the Commonwealth service territory."⁶² According to SRC, "the main source of economic value to COM/Electric is the reduced carrying costs for late payments."⁶³

SRC found for COM/Electric that the Bad Debt Conservation program had, from a system perspective (*i.e.*, based upon system "avoided cost" savings), a benefit-cost ratio of 1.857 (for electrically heated homes), of 2.290 (for homes with electric hot water but not electric heat), and 1.944 (for all "other" --non-electric heat, non-electric hot water-- homes) of pretreatment consumption.

Detroit Edison

 In early 1991, the Detroit Edison Company, an investor-owned electric utility, began a concerted marketing and energy management effort to improve the payment practices of the company's low-income customers. The company decided to concentrate attention on addressing issues involving, among other things, the effect of usage reductions on payment behavior. The company had identified high electric use and high arrearages amongst low-income customers as a substantial problem for the utility.

While these problems were by no means new, the unfolding of the Michigan state budget process made action to address them particularly urgent. In the proposed budget, income support grants to families who received Aid to Families with Dependent Children (AFDC) were to be decreased, as were categorical grants (CAP payments) available to AFDC recipients to pay electric bills.⁶⁵

The need for the corrective action by Detroit Edison was made apparent by internal company analyses showing that "positive billing customers," which involved most of the company's AFDC customers, represented roughly three percent of all residential customers, but accounted for 29 percent of all residential arrears over 30 days old. 66

Detroit Edison responded by offering an extensive energy management program --called Energy Options-- directed toward these high use, high arrears, customers. As part of the program, Detroit Edison said:

Energy Options participants received reports with each bill, comparing usage for the month with usage for the same month a year ago. Furthermore, outstanding arrearages were reduced by \$0.10 for each kWh of usage reduction(;) the reduction was doubled if the customer paid his or her bill on time.⁶⁷

Detroit Edison's evaluation found significant problems with data collection as to payment and collection histories. According to their evaluators:

⁶² Synergic Resources Corporation (1988). *Evaluation of the Cost-Effectiveness of a Bad Debt Conservation Program: Final Report*, Northeast Utilities Co.: Berlin, CT.

⁶³ SRC did not study collection costs.

⁶⁴ Rosenberg, M. and Feblowitz, J. (1993), "The Detroit Edison Low-Income Customer Service Program: Evaluation in Action," *Proceedings of the 1993 Energy Program Evaluation Conference*, at 764, Energy Program Evaluation Conference: Chicago.

⁶⁵ *Id.*, at 764.

⁶⁶ *Id*.

⁶⁷ *Id.*, at 766 - 767.

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Most of the analyses of the effects of energy efficiency programs on customers' payment patterns have run into the same kinds of data problems we experienced. In our case, the published experience of other investigators enabled us to anticipate what some of those problems might be, but we ran afoul of them nonetheless. For example, we dutifully examined the record layout for the Shop File and conferred with Detroit Edison's analysts on the availability of payment information. All of us thought that we had identified fields that contained historical payment records, but it turned out these fields recorded something else entirely. Moreover, due to the sheer volume of transaction details recorded for each customer, the [data processing system] holds only a few months of historical information. We gather the situation is similar at other utilities.⁶⁸

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Despite these data problems, Detroit Edison concluded that on average, program participants reduced the amount of their account balance by \$150 over the period from July 7, 1992 to December 12, 1992.⁶⁹ Moreover, the evaluators found, "concentrating on high-use households will maximize energy savings and cost-effectiveness. Given the demonstrated relationship between high bills and payment problems, targeting high-use customers will also pay off in terms of reduced financial stress."⁷⁰

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B. Rate Affordability Benefits.

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That rate schedules, themselves, can in fact improve collections and generate a range of savings to the utility offering the rate has been confirmed by impact evaluations of other rates. For example, the impact evaluation of the Columbia Gas Company (Pennsylvania) Customer Assistance Program (CAP) -- Pennsylvania's low-income rates are generally referred to as CAP -- found that the company's CAP customers had 61% fewer disputes, 53% fewer new payment agreements, and 67% fewer credit hold requests. In addition, the Columbia Gas impact evaluation found further that, for CAP customers, cancellation of payment plans was reduced by 69%, termination notices declined by 48%, and shutoff orders were printed 74% less often.⁷¹

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Equitable Gas Company

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Equitable Gas (Pennsylvania), an investor-owned gas company, found the same thing with respect to its Energy Affordability Program (EAP). The Equitable Gas evaluation found that there is a net administrative *cost* to the low-income rate of \$15.13 after one year of operation.⁷² Like many initiatives, however, with higher administrative costs in earlier years, the evaluation found further that the participants who stayed on the rate for a second year (70% of the participants) return a \$12.87 savings in Year 2. By the end of Year 3, the total savings had completely paid off the costs from the first year and yielded a total net advantage of \$10.61 per customer.⁷³ The Equitable Gas evaluation found that, based on administrative costs alone:

⁶⁸ *Id.*, at 769 - 770.

⁶⁹ *Id.*, at 769.

 $^{^{70}}$ *Id*

⁷¹ Final Pilot Evaluation, Columbia Gas (PA) Customer Assistance Program (CAP), at 13, A&C Enercom Inc. (November 1996).

Impact Assessment of the Equitable Gas Company Energy Assistance Program. H.Gil Peach and Associates (September 1996)

Equitable Gas, at 96.

...for each 100 customers entering EAP, the 65% retained for three years would return \$689.65 in net administrative cost reduction (65 x \$10.61). For those who remain in EAP, these savings would increment over future years.⁷⁴

The Equitable Gas evaluation found additional *total* benefits (not just administrative savings) to nonparticipating ratepayers as well through application of a "net back" analysis. Net back recognizes that the revenue gained by a utility through its credit and collection efforts is only the total revenue collected *minus* the costs of collection. Hence, if a utility collects \$100, but spends \$40 in the process of collection, the utility's "net back" is only \$60 (for a net back rate of 0.60).

 The Equitable Gas evaluation found that that utility experienced a net back ratio (NBR)⁷⁵ of 0.91 for low-income customers without the Equitable Gas rate affordability program. The evaluation then found that:those who fully participate in one year of EAP show an NBR of 1.41. Those with two full years of EAP show essentially the same performance, with an NBR of 1.37. Both of these results are quite favorable compared to the 1989 Reference Group with its NBR of 0.91.⁷⁶ The evaluation then translated these ratios into "dollars returned" (to other ratepayers). Without the program, the evaluation found, "a customer who would have been billed \$1368 at the standard residential rate would have created a shortfall of \$684 from the standard residential rate, not including the increased cost of collection." The evaluation then found that EAP succeeds in recovering (in the sum of customer payments plus grants) dollars which would otherwise not have been received by the utility:

For those in EAP for one full year, this amount is \$262. For those who remain in EAP for a second year there is an additional \$206. These added to a total of \$468 for each customer who is retained in the program for two full years.⁷⁸

The evaluation concludes: "This means that EAP is not only revenue neutral, but revenue positive in relation to the comparison situation for which it was designed."⁷⁹

Niagara-Mohawk Power Company

Niagara-Mohawk Power Company (New York) also offered its low-income customers an affordable rate. ⁸⁰ The Niagara-Mohawk initiative involves conservation and load management services and a negotiated bill payment, which can be below the "cost of energy" (what Equitable Gas referred to as the "standard rate"). Niagara-Mohawk tested four different groups. Group 3 and Group 4 had an affordable payment plan as a component of the services delivered.

⁷⁴ Equitable Gas, at 96.

⁷⁵ A net back rate of greater than 1.0 means that the company is not only collecting all of its current bill, but is collecting part of the arrears owed by the customer as well. Hence, the company is collecting *more* than its bill for current usage. A net back rate of less than 1.0 means the customer is never paying his or her bill for current usage and is, as a result, falling further and further into arrears.

⁷⁶ Equitable Gas, at 115 – 116.

⁷⁷ Equitable Gas, at 112.

⁷⁸ Equitable Gas, at 116.

⁷⁹ Equitable Gas, at 116.

⁸⁰ Merillee Harrigan (1992) Evaluating the Benefits of Comprehensive Energy Management for Low-Income, Payment-Troubled Customers, Alliance to Save Energy: Washington D.C.

According to the evaluation of the Niagara-Mohawk initiative: "Group 3 and 4 participants almost doubled the total number of payments to the utility during the post-treatment period compared to the pre-treatment period (from 426 to 849 payments for Group 3; from 368 to 792 payments for group 4). In contrast, Group 1 actually decreased the number of payments made and Group 2 increased the total number slightly (from 404 to 446 payments)." Neither Group 1 nor Group 2 had an affordable payment plan. The Niagara-Mohawk evaluation found further that the Company benefited from these increased payments. The evaluation found:

Corresponding to the average dollars per month, the total customer dollars paid to the utility also increased for the three treatment groups. Again, Group 2 payments increased slightly from \$844 to \$895. Group 3 on the average increased its payment from \$883 to \$1174 and Group 4 increased from \$968 to \$1188.

Unfortunately, Niagara-Mohawk undertook its efforts during a time when fuel assistance dollars were being substantially cut back and fuel assistance dollars dropped for the program participants. Nonetheless, despite this drop in fuel assistance funding, the evaluation found:

The increase in amount of customer dollars, despite the drop in receipt of assistance dollars, resulted in an increase in total dollars paid to the utility of \$31 for Group 3 and \$91 for Group 4, compared with *decreases* in total dollars of \$26 for Group 1 and \$102 for Group 2.⁸³ (emphasis added).

National Fuel Gas Distribution Company

 National Fuel Gas Distribution Company (New York) operates what it calls its Low-Income Rate Assistance (LIRA) program.⁸⁴ The impact evaluation of the NFG program developed a mathematical model for calculating whether the program was cost-beneficial to the company (and thus to nonparticipants). The impact evaluation refers to the fact that "the cost effectiveness model measured cash in-flows and out-flows with and without the LIRA program over time." The impact evaluation stated further that: "cash flows were computed using collected revenue, billed revenue, collection expenses, and carrying charges for both the participants and the nonparticipants."

Part of this model recognized that only \$939 of each \$1,276 bill is paid before LIRA. Under LIRA, however, the impact evaluation found, low-income customers pay \$772 of each \$811 bill. According to the National Fuel Gas evaluation: "Several indices were selected as robust measures of the impact of the program. These included change in the number of payments made, change in the percentage of bill paid, change in the amount paid, change in the number of disconnections, and change in the amount of outside aid received by participants. . .The program has been successful in moving most of the indices in the *right* direction." (emphasis in original). The impact evaluation reported the following "list of changes in the right direction".

 $^{^{81}}$ Niagara-Mohawk, at 47 - 48.

Niagara-Mohawk, at 48.

Niagara-Mohawk, at 49.

⁸⁴ National Fuel Gas (PA) Low-Income Rate Assistance (LIRA) program. Barakat & Chamberlin (March 1999).

⁸⁵ National Fuel Gas, at 23.

⁸⁶ National Fuel Gas, at 23.

⁸⁷ National Fuel Gas, at 23.

⁸⁸ National Fuel Gas, at 23.

1 2	>	The number of payments made by the participants increased by 30% (an average of 2.2 payments per participant);
3	>	The percentage of the bill paid per participant increased by 10%;
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6	>	The number of service disconnections decreased by "slightly over 80%."
7	The Netice	nal Eval Cas immost avalvation namental that
8 9	The Nation	nal Fuel Gas impact evaluation reported that:
9 10	tho	[net present value] of the participant's pre-program cash flow was computed at
11		3,805,936). This means that, had the program not existed (pre conditions
12	`	nained the same), NFG would have been expected to under collect over \$3.8
13		llion (present valued over the next five years). Based on the post program
		· · · · · · · · · · · · · · · · · · ·
14		nditions, NFG is still expected to under collect, but only by approximately \$2.3
15	1111	llion. In other words, the program's gross impact is an improvement in collections
16 17	01	\$1.5 million (nearly a 40% improvement over the next five years). 89
18	The imped	et evaluation concluded that "this indicates a cost-effective endeavor." 90
19	The impac	t evaluation concluded that this indicates a cost-effective endeavor.
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21		SUMMARY AND CONCLUSIONS
22		SUMMARI AND CONCLUSIONS
23	The Unive	ersal Service Program proposed above consists of five major program components.
24 25	Each prog	ram component has multiple major policy decisions to be made. The proposal above ne following program recommendations:
26 27	1. Rate a	ffordability program component
28 29 30	>	Eligibility is set at the Low-Income Cutoff (LICO);
31	>	Enrollment should be, to the maximum extent feasible, implemented through an
32		automated data exchange with social assistance agencies;
33		automated data exchange with social assistance agencies,
34	>	Rate affordability benefits are to be delivered through a fixed credit approach;
35		rate arroradomity benefits are to be derivered arrough a fixed creat approach,
36	>	The level of "affordability" should be set at 6% of household income, split evenly
37		between home heating and baseload electric usage.
38		between nome nearing and baseroad electric asage.
39	2 Arragi	rage management program component
40	2. Alltai	age management program component
41	>	Arrears are to be retired over a two-year period;
42		Through are to be retried over a two year period,
43	\rightarrow	Customers are to make copayments toward their arrears;
44		Castomors are to make copayments toward their arrears,
45	>	Copayments are to be set equal to an affordable percentage of income (1% per year).

National Fuel Gas, at 20.National Fuel Gas, at 20.

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- No pre-condition is established for the grant of arrearage management credits.
- > The appropriate response to nonpayment is to place the program participant in the same collection process as any other residential customer.

3. Crisis Intervention program component

- The crisis intervention program component should be set at a multiple of the rate affordability program. The recommended multiple is 0.05.
- > The crisis intervention component should not be based on income-eligibility;
- > The crisis intervention component should provide administering agencies with the flexibility to distribute assistance on an as-needed emergency basis; and
- The crisis intervention component should be on a limited-time basis.

4. Conservation and demand management program component

- Low-income conservation and demand management funding should be funded at the rate of 0.20% of total utility revenues on an annual basis;
- > Efficiency investments should be targeted on the basis of high usage, but on the existence of payment troubles as well; and
- > The utility's outreach for the conservation and demand management programs should be tied into other aspects of its customer service operations, including the management of arrears; and
- The low-income conservation and demand management investments should be delivered in collaboration and in partnership with existing conservation and demand management and affordable housing programs.

5. Basic Consumer Protections

- Late payment fees should be waived for low-income customers, as qualified in the manner identified for the rate assistance program;
- > Ontario utilities should be prohibited from issuing disconnect notices when they lack a present intent to actually effectuate a disconnection of service;
- > The disconnect notices of Ontario utilities should have a 15-day efficacy period. In the event that service is not disconnected within that time frame, the notice period should be reinitiated:
- > Ontario utilities should be prohibited from issuing disconnect notices in more than two consecutive months in which a disconnection of service is not actually effectuated;

and

bill.

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In addition to the program components described above, Ontario utilities should be required to adopt mandatory collection and reporting of specified data elements to be used in outcome evaluations of the program

> Ontario utilities should be required to renegotiate deferred payment plans for arrears

➤ Ontario utilities should be required to accept payments that "cure" defaulted payment

> Ontario utilities should be required to offer payment plans of sufficient length that the

plans, and to reinstate those defaulted payment plans, so long as the customer has not yet

experienced a service disconnection based on the arrears underlying that payment plan;

average monthly installment payment for arrears does not exceed a one-month average

(PPAs) in the event the customer can demonstrate changed circumstances;