

**A REGULAR MEETING**

Of The

**TRAVERSE CITY LIGHT AND POWER BOARD**

Will Be Held On

**TUESDAY, October 25, 2011**

At

**5:15 p.m.**

In The

**COMMISSION CHAMBERS**  
(2<sup>nd</sup> floor, Governmental Center)  
400 Boardman Avenue

Traverse City Light and Power will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting, to individuals with disabilities at the meeting/hearing upon notice to Traverse City Light and Power. Individuals with disabilities requiring auxiliary aids or services should contact the Light and Power Department by writing or calling the following.

Jessica Wheaton  
Marketing/Community Relations Coordinator  
1131 Hastings Street  
Traverse City, MI 49686  
(231) 932-4574

Traverse City Light and Power  
1131 Hastings Street  
Traverse City, MI 49686  
(231) 922-4940

Posting Date: 10-21-11  
4:00 p.m.

## AGENDA

### Pledge of Allegiance

#### 1. Roll Call

#### 2. Consent Calendar

*The purpose of the consent calendar is to expedite business by grouping non-controversial items together to be dealt with by one Board motion without discussion. Any member of the Board, staff or the public may ask that any item on the consent calendar be removed therefrom and placed elsewhere on the agenda for full discussion. Such requests will be automatically respected. If an item is not removed from the consent calendar, the action noted in parentheses on the agenda is approved by a single Board action adopting the consent calendar.*

- a. Consideration of approving minutes of the Regular Meeting of September 13, 2011.

#### 3. Old Business

None.

#### 4. New Business

- a. Consideration of approving a Michigan Electric Cooperative Association (MECA) Safety Program Agreement. (Rice/Solak)

#### 5. Appointments

None.

#### 6. Reports and Communications

- a. From Legal Counsel.
- b. From Staff.
  1. Review of Michigan's Electric Power Utilities - Rate Comparison Study. (Rice/Arends)
  2. Verbal update re: City application for Transportation Investment Generating Economic Recovery (TIGER) grant. (Rice)
  3. Verbal update re: TCL&P Open House held October 8, 2011. (Wheaton)
  4. Verbal update re: North Traverse Heights and Slabtown Neighborhood Association meetings of September 29 and October 11, 2011. (Rice)
  5. Verbal update re: Partnership with DDA/DTCA for Annual Tree Lighting on December 2, 2011. (Wheaton)
- c. From Board.

#### 7. Public Comment

**TRAVERSE CITY  
LIGHT AND POWER BOARD**

Minutes of Regular Meeting  
Held at 5:15 p.m., Commission Chambers, Governmental Center  
Tuesday, September 13, 2011

**Board Members -**

Present: Jim Carruthers, John Snodgrass, Ralph Soffredine, John Taylor, Linda Johnson, Mike Coco, Michael Estes

Absent: None

**Ex Officio Member -**

Present: R. Ben Bifoss

**Others:** Ed Rice, W. Peter Doren, Tim Arends, Jessica Wheaton, Jim Cooper, Karen Feahr

The meeting was called to order at 5:15 p.m. by Chairman Coco.

**Item 2 on the Agenda being Consent Calendar**

Moved by Soffredine, seconded by Johnson, that the following actions, as recommended on the Consent Calendar portion of the Agenda, be approved:

- a. Minutes of the Regular Meeting of August 23, 2011.

CARRIED unanimously.

**Item 3 on the Agenda being Old Business**

None.

**Item 4 on the Agenda being New Business**

- 3(a). Consideration of a Resolution pertaining to the CT Bonding.

Moved by Soffredine, seconded by Johnson, that the Board adopts a resolution to approve and authorize the execution and delivery of a continuing disclosure certificate in connection with the issuance of the Combustion Turbine No. 1 Project refunding revenue bonds, 2011 series A.

The following individuals addressed the Board:

- Dave Walters, General Manager, Michigan Public Power Agency
- Warren Creamer, Baird & Co.

CARRIED unanimously.

**3(b).** Discussion of Energy Optimization Plan for years 2012-2015

The following individuals addressed the Board:

- Ed Rice, Executive Director, Traverse City Light & Power
- Jim Cooper, Manager of Communications & Energy Services, Traverse City Light & Power

**3(c).** Public Comments on Energy Optimization Plan for years 2012-2015.

No one from the public commented.

**Item 5 on the Agenda being Appointments**

None.

**Item 6 on the Agenda being Reports and Communications**

A. From Legal Counsel.

None.

B. From Staff.

1. Jessica Wheaton spoke re: 3<sup>rd</sup> Annual Energy Smart Open House
2. Ed Rice spoke re: Bay Street Undergrounding Project.

C. From Board.

1. Ralph Soffredine requested an update re: the rate analysis project staff is working on.

**Item 7 on the Agenda being Public Comment**

No one from the public commented.

There being no objection, Chairman Coco declared the meeting adjourned at 6:36 p.m.

/jw

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Edward E. Rice, Secretary  
LIGHT AND POWER BOARD



**TRAVERSE CITY  
LIGHT & POWER**

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**To:** Light and Power Board  
**From:** Ed Rice, Executive Director  
**Date:** October 20, 2011  
**Subject:** MECA Safety Program Agreement

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Ed Rice

Enclosed in your packet is a proposed agreement between Traverse City Light & Power Department and Michigan Electric Cooperative Association (MECA) for your consideration. While the annual cost is within the Executive Director's spending authority, the agreement is a multi-year agreement and requires board approval.

MECA has provided safety training for Light & Power employees and other municipal and cooperative utilities throughout the state for many years. Due to some internal restructuring, the agency planned to eliminate the training programs. At the urging of the affected utilities, a new program was developed that requires multi-year commitments for the beneficiaries of the training to keep the program sustainable for MECA.

Approval of this agreement will enable Light & Power to continue benefiting from this invaluable training. By joining with the other 20 member municipal utilities and the electric cooperatives, this training is more cost effective than Light & Power seeking this training on its own, while providing consistent training to many utilities throughout the state.

If the Board is in agreement with Staff's recommendation to enter into this agreement, the following motion would be appropriate:

**MOVED BY \_\_\_\_\_, SECONDED BY \_\_\_\_\_,**

**THAT THE LIGHT & POWER BOARD AUTHORIZES THE EXECUTIVE DIRECTOR TO ENTER INTO AN AGREEMENT WITH THE MICHIGAN ELECTRIC COOPERATIVE ASSOCIATION FOR EMPLOYEE SAFETY TRAINING.**

## Michigan Electric Cooperative Association

### SAFETY PROGRAM AGREEMENT

The undersigned municipal utility ("Utility") hereby subscribes to participate in the Employee Safety Program described below (the "Program") and provided by the Michigan Electric Cooperative Association ("MECA").

The Utility and MECA hereby agree as follows:

#### 1. The Program.

MECA shall provide the Program services to the Utility as more particularly set forth on Exhibit "A" attached to this Agreement and incorporated herein by reference.

The Program will be provided at a time scheduled by MECA in a single location within the Utility's service territory or in reasonably close proximity. MECA provides the Program services to multiple utilities and, for efficiency, reserves the right to combine the Utility's Program services with other utilities' participation at a more central location.

#### 2. Term.

The initial term of this Agreement is three (3) years beginning January 1, 2012. The Agreement shall thereafter automatically renew for successive three (3) year renewal terms unless either party provides written notice of non-renewal to the other party not less than six (6) months prior to the expiration of the initial term or any renewal term. MECA may change the fees for the Program services for any subsequent renewal term by providing written notice to the Utility not less than eight (8) months prior to the expiration of the then-current term of this Agreement.

The Agreement may be earlier terminated by either party at any time (i) upon a default of the other party after written notice of the default and failure to cure the default within 30 days after receipt of the notice; or (ii) MECA ceasing to provide the Program services.

Upon an early termination based upon MECA ceasing to provide the Program, all pre-paid

Program services shall be provided or the annual payment shall be refunded to the Utility.

#### 3. Fees.

The annual fee for the Program shall be \$20,000, payable in advance to MECA by December 1 of each preceding calendar year during the term of this Agreement. The annual fee is subject to change for each renewal term by written notice to the Utility as provided in Section 2.

#### 4. Liability.

The Utility remains responsible for its compliance with all applicable safety requirements and recommendations. Nothing in this Agreement or in the provision of the Program services to the Utility and its employees shall cause MECA to assume any responsibility or any liability to any third party or to the Utility or its employees for the Utility's compliance with any applicable federal, state, local or industry standards or requirements.

The Utility hereby agrees to indemnify and hold MECA, and its directors, members, employees, contractors and agents, harmless from and against any claims made against MECA for any injury, death or damages, including all costs of defense against any such claim, arising out of or made in connection with the Utility's or its employees' failure to properly comply with any applicable safety standard or requirement.

Neither party shall be liable to the other party for any indirect, incidental or consequential damages related to either party's performance or non-performance of their obligations under this Agreement.

#### 5. Assignment.

This Agreement shall be binding upon the parties hereto and their respective successors and permitted assigns; provided, however, that this Agreement may not be assigned by the Utility to any

unaffiliated person without the prior written consent of MECA.

**6. Notices.**

Any notice required or permitted to be given under this Agreement shall be in writing and shall be sent by first class mail, postage prepaid, to the addresses set forth below. Notice shall be deemed to be given upon mailing.

**7. No Agency.**

By entering into this Agreement and performing its obligations hereunder, MECA is acting solely as an independent contractor and shall not be, and shall not be deemed to be, an agent of the Utility for any purpose.

The undersigned parties have caused this Agreement to be executed by their duly authorized officers or representatives as of the date accepted and executed by MECA below.

**8. Entire Agreement.**

This Agreement contains the entire agreement of the parties with respect to the provision of the Program services and supersedes all prior correspondence, conversations and negotiations with respect thereto. Except as otherwise provided herein, this Agreement may be changed or otherwise modified only in writing and signed by both parties hereto.

**9. Governing Law.**

This Agreement shall be governed by and interpreted in accordance with the laws of the State of Michigan.

**TRAVERSE CITY LIGHT & POWER**

By: \_\_\_\_\_

Its: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Accepted \_\_\_\_\_, 2011

**MICHIGAN ELECTRIC COOPERATIVE ASSOCIATION**

By: \_\_\_\_\_

Craig Borr, President and CEO

Address: 2859 W. Jolly Road  
Okemos, MI 48864



EXHIBIT "A"  
Description of Employee Safety Program Services

<p><b>SEGMENT PARTICIPANTS:</b></p> <p><b>Traverse City L&amp;P</b> Annual Program Investment: <b>\$20,000</b></p>	<p><b>INCLUDED PROGRAM DELIVERABLES:</b></p> <ul style="list-style-type: none"> <li>• <b>Eight (8) Traditional Safety Meetings</b> All safety meetings to be delivered at designated host location, topics to be selected from an approved list of available programs. Up to two (2) meetings can be substituted for equal number of Block Training or Crew Observation a la carte items.</li> <li>• <b>Four (4) Safety Workshops</b> Attendance for up to two (2) utility employees per workshop per year. Pricing for additional participants to be determined. To be held jointly with other safety program participants. Workshop topics include: <ul style="list-style-type: none"> <li>• <b>Accident Investigation Workshop</b></li> <li>• <b>National Electric Safety Code (NESC) Workshop</b></li> <li>• <b>Chainsaw Workshop</b></li> <li>• <b>Safety Coordinators Workshop</b></li> </ul> </li> <li>• <b>Continued Participant Advantages</b> <ul style="list-style-type: none"> <li>• <b>Mutual Aid Support</b></li> <li>• <b>Accident Investigation</b></li> <li>• <b>Accident and Near-Miss Review and Discussion</b></li> </ul> </li> <li>• <b>Reliable Public Power Provider (RP3) Support and Assistance</b></li> </ul>	<p><b>A LA CARTE OPTIONS:</b> Annual safety investment amount DOES NOT include the following a la carte items; available upon request:</p> <ul style="list-style-type: none"> <li>• <b>Block Training</b> Hourly Rate: <b>(TBD)</b></li> <li>• <b>Crew Observations</b> Hourly Rate: <b>(TBD)</b></li> <li>• <b>Additional Workshop Participants</b> Cost Per Additional Participant: <b>(TBD)</b></li> </ul>
<p><b>Proposed Host Location:</b></p> <p><b>Traverse City, MI</b></p>		
<p><b>Term:</b></p> <p><b>2012 - 2014</b></p>		

Program pricing calculated as follows: **\$12,500** site location fee divided equally among all segment participants, plus a utility fee of **\$7,500** (large utility) or **\$3,500** (small utility).





TRAVERSE CITY  
LIGHT & POWER

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**To:** Light and Power Board  
**From:** Tim Arends, Controller  
**Date:** October 21, 2011  
**Subject:** Electric Rate Survey

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A handwritten signature in dark ink, appearing to be 'Tim Arends', written in a cursive style.

In December 2006, a rate study was commissioned by L&P management to compare L&P rates with other utilities in the state that included cooperatives, investor owned utilities and municipal utilities. The study included an increase in L&P rates that occurred earlier that year. Attached for your review and information is an update to that survey.

Recently, Board Member Snodgrass provided management with a list of power companies and their power cost recovery (PCR) rate component. That list showed L&P with the highest rate, which caused Mr. Snodgrass concerns that L&P's rates were too high, comparatively. When making any comparison of utility rates, looking at only one component of a rate structure does not paint the entire picture and can be misleading.

For all rate classes in the updated survey I included L&P with a capped and an uncapped PCR rate. This allows the Board to see where L&P would likely rank when the PCR expires, and it depicts the actual difference in cost to the customer due to the capping of the PCR. As you will see, while the PCR capping did save customers some money on their monthly bills, L&P will still be among the leaders in the state as it relates to low customer rates when those caps expire.

Utilities typically reset their PCR base rate whenever they approve a rate adjustment/increase. Since L&P has not increased or adjusted its rates in 5 years the actual PCR adjustment is going to be higher than other utilities that likely have raised rates at some point over the past 5 years; however, the other utilities generally will have higher PCR base rates than L&P. I thought it would be best to demonstrate this point by updating the 2006 survey and include the actual rate components. The survey shows that while L&P's "uncapped" PCR rate is ranked 21 of the 26 utilities surveyed, or one of the highest, the actual cost or "total rate" to the customer has L&P ranked 6, one of the lowest in the state.

Following are statistical conclusions drawn from the survey, by rate class:

**RESIDENTIAL:**

Light & Power has approximately 8,670 residential customers. In 2010, the average monthly use was 530 kWh with an average total cost of just under \$50/month. This rate

## FOR THE LIGHT & POWER BOARD MEETING OF OCTOBER 25, 2011

class represents 74% of L&P's customer base and contributes nearly 20% of the utility's revenues.

- The survey in 2006 ranked L&P 12<sup>th</sup> at 500 kWh and 17<sup>th</sup> at 1,000 kWh. In the updated survey L&P is now ranked 3<sup>rd</sup> at 500 kWh (with PCR cap in place) and 5<sup>th</sup>, at 1,000 kWh. This represents a significant move in a relatively short period of time. L&P residential rates increase with increased use because the first 16kWh/day are billed at a lower rate.
- L&P is one of only two utilities in the study not charging its customers for PA 295 compliance as allowed by the state.
- L&P's monthly customer charge is 3<sup>rd</sup> lowest in the field surveyed.

### **SMALL COMMERCIAL:**

Light & Power has approximately 3,000 commercial customers of which 2,200 are billed as small commercial. In 2010, the average monthly use for small commercial was 1,250 kWh with an average total cost of \$490/month.

- In 2006, L&P ranked 21<sup>st</sup> of 30 utilities surveyed. Today L&P is ranked 12<sup>th</sup> among the peer group.
- The PCR cap saves customers about \$2/month but doesn't impact the total bill enough to change the rankings.
- The minimum monthly charge is among the lowest in the survey at #6.

### **LARGE COMMERCIAL:**

Light & Power has 750 large commercial customers with an average use of approximately 12,000 kWh/month. This class is billed an average of \$1,000/month. While only representing 6.5% of the utility's customer base, this customer class provides 15% of the utility's revenues.

- In 2006, L&P ranked 12<sup>th</sup> of 30 utilities surveyed. Today L&P is ranked 3<sup>rd</sup>. The monthly dollar amount from rank 3 to 12 is approximately \$100/month. The significance of this would be that if L&P increased its rates at the rate of other utilities, this class of customer would be billed approximately \$1,200 more per year.
- L&P's monthly minimum charge is second lowest among those that charge a fee.
- Capping the PCR saved customers in this class approximately \$15/month but had little impact on the ranking.

## FOR THE LIGHT & POWER BOARD MEETING OF OCTOBER 25, 2011

In summary, I believe it is important for utilities to know where they rank regarding customer rates from time-to-time with other utilities. When making that comparison it is important to compare not only the different rate components, but the entire utility bill as well to get an accurate picture. When planning for a rate increase/adjustment, utilities typically readjust their base for power cost adjustment purposes, along with minimum monthly charges, etc.

Utility rates across the state and country have been on the rise for a variety of reasons, and L&P is not immune to these increases as previously reported to you on several occasions. However, as indicated on the updated survey and by the fact that L&P has not increased rates in 5 years, its customers can take comfort in the fact that the utility has a healthy fund balance and has positioned itself well to weather the economic troubles of the past two years and did not have to increase rates on its customers when they could least afford it.

**Traverse City Light & Power**  
Michigan Electric Rate Survey - August 2011

1,000 KWH

500 KWH

		Energy		PA 295	PSCR	Availability	Tax	Total	Rank	1,000 KWH		500 KWH		Total	Rank	Energy Rate	PA 295 Rate	PSCR Rate	Availability	
m	Zealand BPW	\$ 34.05	\$ 0.90	\$ 2.66	\$ 6.50	\$ 1.76	\$ 45.87	\$ 84.05	1	\$ 84.05	\$ 0.06810	\$ 0.90	\$ 0.00531	\$ 6.50						
i	American Electric Power (Indiana/Mi)	\$ 39.28	\$ 0.43	\$ (1.35)	\$ 7.25	\$ 1.82	\$ 47.43	\$ 87.32	2	\$ 87.32	\$ 0.07857	\$ 0.00085	\$ (0.00270)	\$ 7.25						
m	Traverse City Light & Power (PCR Cap)	\$ 39.23	N/A	\$ 3.41	\$ 4.75	\$ 1.90	\$ 49.28	\$ 99.36	5	\$ 99.36	\$ 0.07846	N/A	\$ 0.00681	\$ 4.75						
m	Chelsea Light & Power	\$ 36.25	\$ 1.93	\$ 3.65	\$ 5.89	\$ 1.91	\$ 49.63	\$ 91.12	3	\$ 91.12	\$ 0.07250	\$ 1.93000	\$ 0.00730	\$ 5.89						
m	Charlevoix	\$ 39.25	\$ 1.83	\$ 4.59	\$ 4.25	\$ 2.00	\$ 51.92	\$ 97.51	4	\$ 97.51	\$ 0.07850	\$ 1.83000	\$ 0.00918	\$ 4.25						
m	Traverse City Light & Power (No PCR Cap)	\$ 39.23	N/A	\$ 6.66	\$ 4.75	\$ 2.03	\$ 52.66	\$ 106.12	10	\$ 106.12	\$ 0.07846	N/A	\$ 0.01331	\$ 4.75						
c	Cloverland Electric Cooperative	\$ 46.56	\$ 0.58	\$ 1.08	\$ 3.40	\$ 2.06	\$ 53.68	\$ 103.83	9	\$ 103.83	\$ 0.09311	\$ 0.00117	\$ 0.00216	\$ 3.40						
m	Marquette Light & Power	\$ 37.20	\$ 0.55	\$ 9.34	\$ 5.50	\$ 2.10	\$ 54.69	\$ 103.66	8	\$ 103.66	\$ 0.07440	\$ 0.00109	\$ 0.01868	\$ 5.50						
m	Lowell Light & Power	\$ 41.50	\$ 0.58	\$ 1.58	\$ 10.80	\$ 2.18	\$ 56.63	\$ 102.03	6	\$ 102.03	\$ 0.08300	\$ 0.00116	\$ 0.00315	\$ 10.80						
m	Bay City Electric L&P	\$ 44.85	\$ 0.73	\$ 1.20	\$ 7.90	\$ 2.19	\$ 56.87	\$ 111.05	13	\$ 111.05	\$ 0.08970	\$ 0.00146	\$ 0.00240	\$ 7.90						
m	Niles Utilities Department	\$ 44.00	\$ 0.54	\$ (0.97)	\$ 11.75	\$ 2.21	\$ 57.53	\$ 102.83	7	\$ 102.83	\$ 0.08800	\$ 0.00107	\$ (0.00194)	\$ 11.75						
m	Crystal Falls	\$ 47.10	\$ 0.73	N/A	\$ 9.50	\$ 2.29	\$ 59.62	\$ 109.37	11	\$ 109.37	\$ 0.09420	\$ 0.00146	N/A	\$ 9.50						
m	Holland Board of Public Works	\$ 47.70	\$ 0.74	N/A	\$ 8.99	\$ 2.30	\$ 59.73	\$ 110.11	12	\$ 110.11	\$ 0.09540	\$ 0.00148	N/A	\$ 8.99						
m	Hillsdale Board of Public Works	\$ 45.95	\$ 0.82	\$ 6.25	\$ 6.75	\$ 2.39	\$ 62.16	\$ 117.30	14	\$ 117.30	\$ 0.09190	\$ 0.00164	\$ 0.01250	\$ 6.75						
m	Marshall	\$ 53.00	N/A	\$ 1.10	\$ 7.00	\$ 2.44	\$ 63.54	\$ 119.71	17	\$ 119.71	\$ 0.10600	N/A	\$ 0.02220	\$ 7.00						
m	Lansing Board of Water & Light	\$ 41.85	\$ 3.43	\$ 8.55	\$ 7.50	\$ 2.45	\$ 63.78	\$ 119.71	16	\$ 119.71	\$ 0.08370	\$ 0.00185	\$ 0.01710	\$ 7.50						
m	Sturgis	\$ 49.60	\$ 0.71	\$ 1.00	\$ 10.50	\$ 2.47	\$ 64.28	\$ 117.49	15	\$ 117.49	\$ 0.09920	\$ 0.00112	\$ 0.00200	\$ 10.50						
m	Coldwater Board of Public Utilities	\$ 49.75	\$ 1.26	\$ 3.57	\$ 7.50	\$ 2.48	\$ 64.57	\$ 121.33	18	\$ 121.33	\$ 0.09950	\$ 0.00252	\$ 0.00714	\$ 7.50						
i	Consumers Energy	\$ 54.45	\$ 1.68	\$ 0.81	\$ 6.00	\$ 2.52	\$ 65.45	\$ 154.47	25	\$ 154.47	\$ 0.10890	\$ 0.00205	\$ 0.00161	\$ 6.00						
m	Grand Haven Board of Light & Power	\$ 54.45	\$ 0.89	\$ 4.61	\$ 6.00	\$ 2.64	\$ 68.59	\$ 156.11	26	\$ 156.11	\$ 0.10890	\$ 0.00178	\$ 0.00923	\$ 6.00						
i	Detroit Edison Company	\$ 54.61	\$ 4.27	\$ 1.45	\$ 6.00	\$ 2.65	\$ 68.98	\$ 136.61	23	\$ 136.61	\$ 0.10921	\$ 0.00254	\$ 0.00290	\$ 6.00						
c	Midwest Energy Cooperative	\$ 41.02	\$ 0.65	\$ 11.00	\$ 15.00	\$ 2.71	\$ 70.37	\$ 125.14	19	\$ 125.14	\$ 0.08204	\$ 0.00130	\$ 0.02199	\$ 15.00						
i	Great Lakes Energy	\$ 47.95	\$ 0.00	\$ 5.72	\$ 15.00	\$ 2.75	\$ 71.42	\$ 127.24	20	\$ 127.24	\$ 0.09590	\$ 0.00158	\$ 0.01144	\$ 15.00						
c	Cherryland Electric Cooperative	\$ 54.90	\$ 0.30	\$ -	\$ 15.00	\$ 2.81	\$ 73.01	\$ 130.42	21	\$ 130.42	\$ 0.10980	\$ 0.00060	\$ -	\$ 15.00						
c	Homeworks/Portland	\$ 56.75	\$ 0.75	\$ 1.30	\$ 12.00	\$ 2.83	\$ 73.63	\$ 134.77	22	\$ 134.77	\$ 0.11350	\$ 0.00149	\$ 0.00260	\$ 12.00						
i	Alpena Power Company	\$ 59.11	\$ 3.93	\$ 2.88	\$ 5.00	\$ 2.84	\$ 73.75	\$ 139.18	24	\$ 139.18	\$ 0.11821	\$ 0.00186	\$ 0.00576	\$ 5.00						
m	Norway	\$ 61.10	\$ 0.82	\$ 9.50	\$ 12.00	\$ 3.34	\$ 86.76	\$ 161.03	27	\$ 161.03	\$ 0.12220	\$ 0.00164	\$ 0.01900	\$ 12.00						

Note: Prepared by T&L&P for internal use only. Rate information obtained from utility websites and telephone calls/e-mails to respective billing departments. Some rate information may contain estimates.

c	Cooperatives
m	Municipals
i	Investor Owned

# Traverse City Light & Power

Michigan Electric Rate Survey - August 2011

1,500 KWH

SMALL COMMERCIAL		Energy	PA 295	PSCR	Availability	Tax	Total	Rank	Energy Rate	PA 295 Rate	PSCR	Availability
m	Marshall	\$ 96.00	N/A	\$ 3.30	\$ 15.00	\$ 6.86	\$ 121.16	1	\$ 0.06400	N/A	\$ 0.00220	\$ 15.00
m	Zeeland BPW	\$ 122.10	\$ 5.00	\$ 7.97	\$ 14.50	\$ 8.97	\$ 158.55	2	\$ 0.08140	\$ 5.00	\$ 0.00531	\$ 14.50
m	Hillsdale Board of Public Works	\$ 130.65	\$ 5.00	\$ 18.75	\$ 9.58	\$ 9.84	\$ 173.82	3	\$ 0.08710	\$ 5.00	\$ 0.01250	\$ 9.58
m	Charlevoix	\$ 130.80	\$ 10.14	\$ 13.77	\$ 10.50	\$ 9.91	\$ 175.12	4	\$ 0.08720	\$ 10.14	\$ 0.00918	\$ 10.50
m	Crystal Falls	\$ 150.00	\$ 3.99	N/A	\$ 14.90	\$ 10.13	\$ 179.02	5	\$ 0.10000	\$ 3.99	N/A	\$ 14.90
m	Chelsea Light & Power	\$ 134.10	\$ 10.69	\$ 10.95	\$ 16.57	\$ 10.34	\$ 182.65	6	\$ 0.08940	\$ 10.69	\$ 0.00730	\$ 16.57
c	Cloverland Electric Cooperative	\$ 159.17	\$ 3.40	\$ 3.24	\$ 7.40	\$ 10.39	\$ 183.60	7	\$ 0.10611	\$ 3.40	\$ 0.00216	\$ 7.40
c	Midwest Energy Cooperative	\$ 122.97	\$ 1.34	\$ 32.99	\$ 16.00	\$ 10.40	\$ 183.69	8	\$ 0.08198	\$ 1.34	\$ 0.02199	\$ 16.00
c	Cherryland Electric Cooperative	\$ 156.05	\$ 1.05	-	\$ 17.50	\$ 10.48	\$ 185.07	9	\$ 0.10403	\$ 1.05	-	\$ 17.50
m	Marquette Light & Power	\$ 132.00	\$ 1.20	\$ 28.02	\$ 13.80	\$ 10.50	\$ 185.52	10	\$ 0.08800	\$ 0.0008	\$ 0.01868	\$ 13.80
m	Bay City Electric L&P	\$ 153.00	\$ 4.28	\$ 3.60	\$ 19.50	\$ 10.82	\$ 191.20	11	\$ 0.10200	\$ 4.28	\$ 0.00240	\$ 19.50
m	<b>Traverse City Light &amp; Power (PCR Cap)</b>	\$ 155.25	-	\$ 18.00	\$ 10.25	\$ 11.01	\$ 194.51	12	\$ 0.10350	-	\$ 0.01200	\$ 10.25
m	<b>Traverse City Light &amp; Power (No PCR Cap)</b>	\$ 155.25	-	\$ 19.97	\$ 10.25	\$ 11.13	\$ 196.59	13	\$ 0.10350	-	\$ 0.01331	\$ 10.25
m	Niles Utilities Department	\$ 168.00	\$ 4.34	\$ (2.91)	\$ 17.00	\$ 11.19	\$ 197.61	14	\$ 0.11200	\$ 4.34	\$ (0.00194)	\$ 17.00
i	Detroit Edison Company	\$ 161.85	\$ 12.28	\$ 4.35	\$ 8.78	\$ 11.24	\$ 198.50	15	\$ 0.10790	\$ 0.28	\$ 0.00290	\$ 8.78
m	Lowell Light & Power	\$ 157.50	\$ 4.30	\$ 5.36	\$ 21.75	\$ 11.33	\$ 200.24	16	\$ 0.10500	\$ 4.30	\$ 0.00357	\$ 21.75
c	Homeworks/Portland	\$ 165.84	\$ 1.29	\$ 3.90	\$ 20.00	\$ 11.46	\$ 202.49	17	\$ 0.11056	\$ 1.29	\$ 0.00260	\$ 20.00
i	Great Lakes Energy	\$ 144.00	\$ 14.85	\$ 17.16	\$ 18.00	\$ 11.64	\$ 205.65	18	\$ 0.09600	\$ 2.85	\$ 0.01144	\$ 18.00
i	American Electric Power (Indiana/MI)	\$ 192.84	\$ 2.68	\$ (4.05)	\$ 6.50	\$ 11.88	\$ 209.85	19	\$ 0.12856	\$ 2.68	\$ (0.00270)	\$ 6.50
m	Lansing Board of Water & Light	\$ 144.60	\$ 11.08	\$ 25.66	\$ 17.98	\$ 11.96	\$ 211.27	20	\$ 0.09640	\$ 11.08	\$ 0.01710	\$ 17.98
m	Coldwater Board of Public Utilities	\$ 177.45	\$ 3.76	\$ 10.72	\$ 11.00	\$ 12.18	\$ 215.10	21	\$ 0.11830	\$ 3.76	\$ 0.00714	\$ 11.00
i	Alpena Power Company	\$ 178.98	\$ 11.03	\$ 8.64	\$ 7.00	\$ 12.34	\$ 217.99	22	\$ 0.11932	\$ 11.03	\$ 0.00576	\$ 7.00
m	Holland Board of Public Works	\$ 165.90	\$ 6.22	N/A	\$ 35.10	\$ 12.43	\$ 219.65	23	\$ 0.11060	\$ 6.22	N/A	\$ 35.10
m	Consumers Energy	\$ 197.60	\$ 11.08	\$ 2.42	\$ 15.00	\$ 13.57	\$ 239.66	24	\$ 0.13174	\$ 11.08	\$ 0.00161	\$ 15.00
m	Sturgis	\$ 194.70	\$ 5.21	\$ 3.00	\$ 28.00	\$ 13.85	\$ 244.76	25	\$ 0.12980	\$ 5.21	\$ 0.00200	\$ 28.00
m	Grand Haven Board of Light & Power	\$ 203.70	\$ 3.27	\$ 13.84	\$ 15.00	\$ 14.15	\$ 249.96	26	\$ 0.13580	\$ 3.27	\$ 0.00923	\$ 15.00
m	Norway	\$ 183.30	\$ 5.63	\$ 28.50	\$ 35.00	\$ 15.15	\$ 267.58	27	\$ 0.12220	\$ 5.63	\$ 0.01900	\$ 35.00

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c	Cooperatives
m	Municipals
i	Investor Owned

Traverse City Light & Power  
Michigan Electric Rate Survey

30 KW  
10,500 KWH

LARGE COMMERCIAL

	Energy	Demand	PA 295	PSCR	Availability	Tax	Total	Rank	Energy Rate	Demand	PA 295 Rate	PCR Rate	Availability
m	\$ 491.40	\$ 387.00	\$ 4.34	\$ (20.39)	\$ -	\$ 51.74	\$ 914.10	1	\$ 0.0468	\$ 12.90	\$ 4.34	\$ (0.00194)	\$ -
m	\$ 452.55	\$ 330.00	\$ 50.00	\$ 55.80	\$ -	\$ 53.30	\$ 941.65	2	\$ 0.0431	\$ 11.00	\$ 50.00	\$ 0.00531	\$ -
m	\$ 451.50	\$ 376.50	\$ -	\$ 126.00	\$ 10.00	\$ 57.84	\$ 1,021.84	3	\$ 0.0430	\$ 12.55	\$ -	\$ 0.01200	\$ 10.00
m	\$ 828.73	\$ 149.40	\$ 2.68	\$ (28.35)	\$ 16.65	\$ 58.15	\$ 1,027.26	4	\$ 0.0789	\$ 4.98	\$ 2.68	\$ (0.00270)	\$ 16.65
m	\$ 451.50	\$ 376.50	\$ -	\$ 139.76	\$ 10.00	\$ 58.67	\$ 1,036.42	5	\$ 0.0430	\$ 12.55	\$ -	\$ 0.01331	\$ 10.00
m	\$ 530.25	\$ 315.00	\$ 10.14	\$ 96.39	\$ 42.00	\$ 59.63	\$ 1,053.41	6	\$ 0.0505	\$ 10.50	\$ 10.14	\$ 0.00918	\$ 42.00
m	\$ 475.84	\$ 330.00	\$ 5.00	\$ 131.25	\$ 60.00	\$ 60.13	\$ 1,062.21	7	\$ 0.0453	\$ 11.00	\$ 5.00	\$ 0.01250	\$ 60.00
m	\$ 456.75	\$ 429.00	\$ 4.30	\$ 37.49	\$ 75.00	\$ 60.15	\$ 1,062.69	8	\$ 0.0435	\$ 14.30	\$ 4.30	\$ 0.00357	\$ 75.00
m	\$ 519.23	\$ 400.50	\$ 3.99	N/A	\$ 80.00	\$ 60.22	\$ 1,063.94	9	\$ 0.0495	\$ 13.35	\$ 3.99	N/A	\$ 80.00
m	\$ 672.00	\$ 310.50	N/A	\$ 23.10	\$ -	\$ 60.34	\$ 1,065.94	10	\$ 0.0640	\$ 10.35	N/A	\$ 0.00220	\$ -
m	\$ 525.00	\$ 423.00	\$ 4.28	\$ 25.20	\$ 36.00	\$ 60.81	\$ 1,074.29	11	\$ 0.0500	\$ 14.10	\$ 4.28	\$ 0.00240	\$ 36.00
c	\$ 502.74	\$ 258.90	\$ 31.39	\$ 230.90	\$ -	\$ 61.44	\$ 1,085.36	12	\$ 0.0479	\$ 8.63	\$ 31.39	\$ 0.02199	\$ -
m	\$ 937.25	\$ -	\$ 10.93	\$ 76.65	\$ 30.38	\$ 63.31	\$ 1,118.52	13	\$ 0.0893	\$ -	\$ 10.93	\$ 0.00730	\$ 30.38
i	\$ 627.90	\$ 210.00	\$ 19.43	\$ 120.12	\$ 80.00	\$ 63.45	\$ 1,120.90	14	\$ 0.0598	\$ 7.00	\$ 2.85	\$ 0.01144	\$ 80.00
m	\$ 561.75	\$ 277.50	\$ 8.40	\$ 196.14	\$ 13.80	\$ 63.46	\$ 1,121.05	15	\$ 0.0535	\$ 9.25	\$ 0.0008	\$ 0.01868	\$ 13.80
m	\$ 564.90	\$ 390.00	\$ 27.44	\$ 77.27	\$ 18.00	\$ 64.66	\$ 1,142.26	16	\$ 0.0538	\$ 13.00	\$ 27.44	\$ 0.00736	\$ 18.00
c	\$ 699.51	\$ 307.50	\$ 16.87	\$ -	\$ 69.00	\$ 65.57	\$ 1,158.45	17	\$ 0.0666	\$ 10.25	\$ 16.87	\$ -	\$ 69.00
c	\$ 1,114.16	\$ -	\$ 3.40	\$ 22.68	\$ 7.40	\$ 68.86	\$ 1,216.49	18	\$ 0.1061	\$ -	\$ 3.40	\$ 0.00216	\$ 7.40
m	\$ 605.01	\$ 412.50	\$ 5.21	\$ 21.00	\$ 140.00	\$ 71.02	\$ 1,254.74	19	\$ 0.0576	\$ 13.75	\$ 5.21	\$ 0.00200	\$ 140.00
c	\$ 799.05	\$ 261.60	\$ 30.21	\$ 27.30	\$ 75.00	\$ 71.59	\$ 1,264.75	20	\$ 0.0761	\$ 8.72	\$ 30.21	\$ 0.00260	\$ 75.00
m	\$ 590.10	\$ 305.70	\$ 80.78	\$ 179.59	\$ 38.35	\$ 71.67	\$ 1,266.19	21	\$ 0.0562	\$ 10.19	\$ 80.78	\$ 0.01710	\$ 38.35
i	\$ 472.29	\$ 648.30	\$ 38.01	\$ 30.48	\$ 13.67	\$ 72.17	\$ 1,274.92	22	\$ 0.0450	\$ 21.61	\$ 21.43	\$ 0.00290	\$ 13.67
m	\$ 712.95	\$ 450.00	\$ 17.46	\$ 96.88	\$ 25.00	\$ 78.14	\$ 1,380.43	23	\$ 0.0679	\$ 15.00	\$ 17.46	\$ 0.00923	\$ 25.00
i	\$ 808.89	\$ 397.20	\$ 87.50	\$ 16.91	\$ 30.00	\$ 80.13	\$ 1,415.62	24	\$ 0.0770	\$ 13.24	\$ 87.50	\$ 0.00161	\$ 30.00
i	\$ 763.83	\$ 309.00	\$ 235.88	\$ 60.48	\$ 30.00	\$ 83.95	\$ 1,483.14	25	\$ 0.0727	\$ 10.30	\$ 235.88	\$ 0.00576	\$ 30.00
m	\$ 1,161.30	\$ -	\$ 12.44	N/A	\$ 281.59	\$ 87.32	\$ 1,542.65	26	\$ 0.1106	\$ -	\$ 12.44	N/A	\$ 281.59
m	\$ 913.50	\$ 337.50	\$ 5.63	\$ 199.59	\$ 80.85	\$ 92.22	\$ 1,629.20	27	\$ 0.0870	\$ 11.25	\$ 5.63	\$ 0.01900	\$ 80.85

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