April 26, 2017

Chairman Daniel Hall
Missouri Public Service Commission
200 Madison Street
Governor Office Building
Jefferson City, MO 65101

Re: MEEA’s Comments on Proposed Missouri Energy Efficiency Investment Act Rules

Dear Chairman Hall and Commissioners of the Missouri Public Service Commission:

The Midwest Energy Efficiency Alliance (MEEA) submits the following comments on the proposed Missouri Energy Efficiency Investment Act (MEEIA) rules, Case No. EX-2016-0334.

MEEA is a non-profit, membership association working across a 13-state region in the Midwest. Our members include utilities (investor-owned, municipal, and cooperatives), energy efficiency technology and service providers, manufacturers, state and local governments, and research and advocacy organizations. We are the Midwest’s key proponent and resource for energy efficiency policy, helping to educate and advise a diverse range of stakeholders on ways to pursue a cost-effective, energy-efficient agenda. The Missouri Division of Energy, Kansas City Power & Light, City Utilities of Springfield, Columbia Water & Gas, Missouri Energy Initiative, Missouri Botanical Garden’s EarthwaysCenter, Lockheed Martin, Renovate America, and Inova Energy Group are among our members advancing energy efficiency in Missouri.

As the region’s leading voice for energy efficiency, MEEA is pleased to see the Missouri Public Service Commission (the commission) examine the MEEIA rules and propose many changes that will serve the state’s residential, commercial, and institutional utility customers. Since 2013, annual incremental energy savings have oscillated between 400 – 600 GWh. We recognize that MEEIA is one part of a larger regulatory process to assess the optimal mix of energy resources for Missouri and identify the most cost-effective and achievable investment in energy efficiency.
The opportunity to comment on the proposed MEEIA rules is a chance to create a regulatory framework to increase investment in cost-effective energy efficiency. We submit recommendations in the following areas:

- True-ups to support accurate throughput disincentive components of the demand-side investment mechanism (DSIM);
- Metrics to include in impact evaluations of demand-side energy savings programs;
- Clarification of the annual incremental energy savings targets;
- Design of the energy efficiency market potential study;
- Requirements for customers seeking to opt-out of utility-provided demand-side energy savings programs;
- Characteristics of an impactful statewide collaborative; and
- Clarifications and use of a statewide technical reference manual.

4 CSR 240-20.093 (2)(H) Throughput Disincentive

In order for energy efficiency to be treated as an energy resource, it must be seen as a good financial, or at least financially neutral, investment from the utility’s perspective. While there are numerous ways to achieve this goal, one way is through what is commonly termed the three-legged stool: cost recovery, performance incentives, and

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1 Utilities such as Commonwealth Edison, Ameren Illinois, and AEP Ohio all have decoupling or decoupling pilots. Decoupling separates utilities’ revenues from volume of sales. See Illinois General Assembly Public Act 099-0906 and Case Nos. 11-351-EL-AIR, 11-352-EL-AIR, 11-353-EL-ATA, 11-354-EL-ATA, 11-356-EL-AAM, 11-358-EL-AAM before The Public Utilities Commission of Ohio.
lost revenue recovery. The proposed MEEIA rules contain all three. The proposed rules refer to lost revenue recovery as the throughput disincentive component of the DSIM. For both cost recovery and lost revenue recovery mechanisms, annual true-ups are a means of ensuring that ratepayers are only paying for the actual cost of the programs and lost revenue and that the utilities are recovering an appropriate amount.

The following language illustrates how Public Service of New Mexico (PNM, a utility) may treat lost revenue recovery (lost contributions to fixed costs, or LCFC):

“The Lost Fixed Cost Amount is trued up each year to account for the difference between the amount recovered versus that amount that should have been collected based on measured and verified savings. If measured and verified savings were actually lower than projected, PNM will issue credits to customer through the LCFC mechanism.”

As proposed in the MEEIA rules, it is not clear if the throughput disincentive component of the DSIM will be subject to annual true-ups and how discrepancies in predicted and actual lost revenue are to be treated. Clarification on this issue will help promote transparency and accountability around demand-side energy savings programs.

4 CSR 240-20.093 (7)D(1)B Impact Evaluations
The MEEIA proposed rules call for the following metrics to be included in impact evaluations: lifetime and annual gross and net demand savings and energy savings, program cost-effectiveness test scores according to five named cost-benefit tests, and the portfolio and program benefits as calculated using the Utility Cost Test.

While demand and energy savings as well as cost-effectiveness scores are standard metrics to include in an impact evaluation, additional non-energy impacts may be included in these reports. Non-energy impacts to consider include avoided emissions, reductions in water consumption, job creation, trainees participating in training programs, market shares of new products for market transformation programs, reduced utility customer disconnects, and reduced or increased operations and maintenance costs.3,4

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4 CSR 240-20.094 (1)(A) Annual Incremental Goals

MEEA supports the inclusion of incremental annual demand-side energy savings goals in the MEEIA rules.

We request clarification as to whether “total annual energy” refers to the energy load served by a utility before or after the customer opt-out, as defined in 4 CSR 240-20.094 (4) – is calculated. In 2013, commercial and industrial electricity consumption in Missouri accounted for 57.7% of total electricity consumption in the state. Much of this load, however, is eligible to opt-out of utility-provided demand-side savings programs under the existing and proposed MEEIA rules. For this reason, the annual incremental goals would represent differing absolute numbers of kilowatt hours if applied to the total load before or after the opt-out is taken into consideration. The effect of opt-outs and the impact on energy savings goals and reporting of goals can be seen in Appendix A: Opt-Out Impact in Indiana.

Another area for consideration is the market potential studies, which serve as the basis for demand-side savings programs. Market potential studies traditionally include four categorizations of potential energy savings, as illustrated in Table 1.

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<table>
<thead>
<tr>
<th>Type of Potential</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical</td>
<td>The theoretical maximum amount of energy use that could be displaced by efficiency, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end-users to adopt the efficiency measures.</td>
</tr>
<tr>
<td>Economic</td>
<td>The subset of the technical potential that is economically cost-effective as compared to conventional supply-side energy resources.</td>
</tr>
<tr>
<td>Maximum Achievable</td>
<td>The amount of energy use that efficiency can realistically be expected to displace assuming the most aggressive program scenario possible. Achievable potential takes into account real-world barriers to convincing end-users to adopt efficiency measures, the non-measure costs of delivering programs (for administration, marketing, tracking systems, monitoring and evaluation, etc.), and the capability of programs and administrators to ramp up program activity over time.</td>
</tr>
<tr>
<td>Program/Realistic</td>
<td>The efficiency potential possible given specific program funding levels and designs. In effect, they estimate the achievable potential from a given set of programs and funding. Program potential studies can consider scenarios ranging from a single program to a full portfolio of programs. A typical potential study may report a range of results based on different program funding levels.</td>
</tr>
</tbody>
</table>

Table 1: Categories of Energy Efficiency Potential.

Under MEEIA the aim is for an electric utility’s demand-side program to “achieve a goal of all cost-effective demand-side savings”. Designing energy efficiency programs based only on realistic achievable potential could eliminate some cost-effective energy savings, while focusing on the maximum achievable potential savings could be overly inclusive. There is value considering both estimates so that maximum investment in cost-effective energy efficiency is achieved without an undue burden on ratepayers.

4 CSR 240-20.094 (3)(A)(4)
MEEA offers the following recommendations to ensure that low-income energy efficiency potential is adequately captured in the market potential study. First, using data from sources beyond the state’s new TRM is important as there may be some measures frequently used in low-income programs in other states that have not yet

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been added to Missouri’s TRM. The Illinois Technical Reference Manual\(^8\) and the Michigan Energy Measures Database\(^9\) are two recommended sources. The Energy Efficiency for All initiative’s potential study is another source.\(^{10}\)

Second, as low-income energy efficiency programs are not required to pass cost-effectiveness tests in Missouri, the market potential study should not exclude energy efficiency measures targeted at low-income communities based on any minimum cost-effectiveness scores.

\textbf{4 CSR 240-20.094 (3)(B)(4)}

While it is not uncommon for utilities to conduct their own market potential studies to inform their demand-side savings programs, MEEA would like to call the commission’s attention to the recently passed legislation in Michigan. Enrolled Senate Bill No. 437 authorizes the Michigan Public Service Commission to conduct a statewide energy waste reduction (energy efficiency) potential study as well as “establish the modeling scenarios and assumptions each electric utility should include in developing its integrated resource plan...”\(^{11}\) The new law brings significant transparency to the previously opaque integrated resource planning process and encourages significant stakeholder involvement. Add line about IRP

\textbf{4 CSR 240-20.094 (7)(A)(3)}

MEEA supports the language added to this section to ensure that customers qualifying to opt-out have documented energy efficiency plans. However, the following language proposed in the MEEIA rules requires additional clarification:

1. “…and the customer has a comprehensive demand-side or energy efficiency program and can demonstrate an achievement of savings at least equal to those expected from utility-provided demand-side programs.”

What level of savings is required? Is there an assumption that utility demand-side programs would have achieved a certain percentage reduction in energy use?

http://www.ilsag.info/il_trm_version_6.html

http://www.michigan.gov/mpsc/0,4639,7-159-52495_55129---,00.html


Or, must the customer reduce their energy use following the savings schedule established in 4 CSR 240-20.094 (1)(A)?

2. “...sufficient documentation to demonstrate compliance with these criteria, including the amount of energy savings.”

The only way to demonstrate that the energy savings have been achieved is for the customer to conduct, and submit to the commission, an EM&V report that adheres to the same guidelines and level of rigor required of utility-provided demand-side energy savings programs as set forth in the MEEIA rules.

Michigan and Wisconsin are two states with self-direct programs that may provide useful guidance as the commission considers the requirements for certain customers to qualify under the opt-out provision. Michigan’s self-direct program may serve as a valuable guide to the commission as it finalizes the components of the energy efficiency plans that opt-out customers must submit. Wisconsin’s large customer energy efficiency self-direct program calls for the Wisconsin Public Service Commission to establish energy savings tracking and reporting requirements for participating customers. This level of oversight by the utility regulatory commission helps ensure that savings from customers that have opt-out of the utility’s energy efficiency programs are realized.

4 CSR 240-20.094 (9)(B)

MEEA supports the establishment of a statewide collaborative in Missouri. Illinois and Michigan have well-established statewide collaboratives that bring stakeholders together outside of a regulatory proceeding to explore innovative ideas, oversee working groups that annually update net-to-gross values and each state’s TRM, serve as a platform for input to utility energy efficiency program design as well as tracking achievements throughout the program year, and foster greater collaboration among the utilities, evaluators, implementers, consumer advocates, environmental advocates, and representatives of key customer groups, among others.

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Based on the success of these collaboratives, MEEA makes the following recommendations:

1. Meetings are open to the public. The current language identifies “electric utilities and their stakeholders” as the participants. Explicitly denoting that meetings are open to the public may encourage engagement by new actors.

2. Gas utilities are encouraged to attend state collaborative meetings to foster greater gas-electric program delivery coordination.

3. Meetings are facilitated by an independent facilitator selected by the commission (Illinois) or facilitated by commission staff (Michigan).

4. Meetings are held, at a minimum, quarterly.

5. Meetings have in-person and remote access capability.

6. Meeting agenda, notes, presentations, evaluation reports, and other work products presented to or developed by the statewide collaborative are made publicly available (Illinois).

MEEA applauds the commission’s desire to adopt a statewide framework for conducting EM&V. In both Michigan and Illinois, the development of annual EM&V reports is overseen by the statewide collaborative. In 2015, MEEA authored the report, Considerations for a Statewide Evaluation, Measurement, and Verification Framework for Energy Efficiency in Kentucky, as part of a two-year project with the Kentucky Department of Energy Development and Independence.\(^\text{16}\) MEEA provides this report as a reference for the commission as the MEEIA rules are finalized. In particular, we would like to direct the commission’s attention Appendix C: Example of an EM&V Timeline. The appendix describes the timeline used in Illinois to produce annual utility evaluation reports, including processes for updating the state’s technical reference manual and net-to-gross values each year.

4 CSR 240-20.094 (10)
In addition to Missouri, four states in the Midwest – Illinois, Michigan, Minnesota, and Iowa – have developed and regularly updated a state-specific TRM. While the utilities in each of these states retain the ability to submit measure values and algorithms that differ from their statewide TRM, we would like to offer the language adopted in Iowa for consideration by the commission:

“The Board approves of the TRM and its implementation and update processes developed and recommended by the parties in the Motion for Approval with

supporting documentation. By doing so, the Board accepts the use of the standard formulas contained in the TRM, as prepared by the TRM developer and reviewed by the TRM Oversight Committee, as the basis for determining savings and cost-effectiveness of energy efficiency programs."

Additionally, MEEA recommends that the commission consider including in the MEEIA rules direction as to whether TRM measure values are applied retrospectively or prospectively to inform demand-side energy savings program planning and cost recovery purposes.

To the extent that it may provide assistance, MEEA also offers the commission a reference to the Kentucky TRM Roadmap, which was developed as part of the aforementioned project with the Kentucky Division for Energy Development and Independence.

4 CSR 240-20.094 (10)(D)

MEEA supports the suggestion for including an examination of a percentage adder for non-energy benefits into the work of the stakeholder collaborative. The Illinois Energy Efficiency Stakeholder Collaborative has taken on this topic at various points in time in their work as well, although the discussion has focused more on quantification of specific non-energy benefits. The recently passed Future Energy Jobs Act, requires Illinois electric utilities to include water savings and operations and maintenance cost reductions in energy efficiency cost-effectiveness tests. Research by Skumatz Economic Research Associates has quantified the value of numerous non-energy benefits to support the notion that an adder is an appropriate way to recognize that non-energy benefits exist and have a value more than zero in cost-effectiveness tests. Table 2 illustrates which states are using adders in cost-effectiveness calculations.

21 Illinois General Assembly Public Act 099-0906.
Adders for Energy Efficiency Programs | Adders for Low-Income Program
---|---
Colorado | Colorado
Vermont | Vermont
Iowa | California
Oregon | Oregon
Washington | Washington
New York | New York
District of Columbia | Utah
New Hampshire | Wyoming
Connecticut | Idaho

Table 2: States Using Adders To Account For Non-Energy Benefits

Thank you for the opportunity to comment on EX-2016-0334 and we look forward to continuing to engage in the work of the commission to advance energy efficiency in Missouri. Please contact Julia Friedman, Senior Policy Manager, at 312-784-7265 or jfriedman@mwalliance.org with any questions.

Sincerely,

Stacey Paradis
Executive Director
Midwest Energy Efficiency Alliance

Appendix A: Opt-Out Impacts in Indiana

This table illustrates the impact that Indiana’s opt-out policy has on total energy savings. In Northern Indiana Public Service Company, Vectren, and Duke’s territories, the opted-load represents a significant amount of the total retail energy sales.

<table>
<thead>
<tr>
<th>Utility</th>
<th>Annual Savings as a Percentage of Total Load After Opt-Out</th>
<th>Annual Savings as a Percentage of Total Load After Opt-Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duke</td>
<td>0.68%</td>
<td>1.02%</td>
</tr>
<tr>
<td>Indiana Michigan Power</td>
<td>0.78%</td>
<td>0.92%</td>
</tr>
<tr>
<td>Indianapolis Power &amp; Light</td>
<td>0.87%</td>
<td>0.92%</td>
</tr>
<tr>
<td>Northern Indiana Public Service Company</td>
<td>0.65%</td>
<td>1.52%</td>
</tr>
<tr>
<td>Vectren</td>
<td>0.71%</td>
<td>1.17%</td>
</tr>
</tbody>
</table>

Source: Indiana utility EE plans & integrated resource plans. Note: Where data was not directly given in utility plans, values were estimated from available data.