



2020 Midwest Energy Efficiency Spotlight Data Notes

Slide 1: MWh of Electricity Saved

These numbers come from two sources. The energy efficiency savings come from MEEA's energy efficiency tracking database, which tracks portfolio-level savings and spending from the region's utilities. The data comes mostly from docketed plans and reports, supplemented with energy efficiency data from the US Energy Information Administration (Form EIA-861), personal communication with utilities and regulatory staff, and assorted other sources. The total retail sales data used to calculate the top savers for percent of sales also comes out of the EIA's Form-861 data.

- Form EIA-861 data: <https://www.eia.gov/electricity/data/eia861/>

Slide 2: Therms of Natural Gas Saved

As with the electricity slide, the primary source was MEEA's EE tracking database. Unlike the electric side, there is no national-level tracking of natural gas EE like we see in EIA-861. The data for retail sales of natural gas for the top savers block comes from Form EIA-176 reporting on final disposition of natural gas.

- Form EIA-176 data (via the Natural Gas Annual Respondent Query System):
<https://www.eia.gov/naturalgas/nggs/#?year1=2014&year2=2018&company=Name>

Slide 3: Municipal & Cooperative Utility Highlights

The data used in this slide comes directly from utility reporting on Form EIA-861. There is some variations in how co-ops & munis report EE on EIA-861, so in some cases the raw data represents multiple small utilities reporting in aggregate via a larger entity (like the distribution members of a generation & transmission coop reporting through the G&T rather than individually) while in other cases it is individual utilities reporting (for example members of a municipal power association reporting as individual municipalities instead of as the group). To attempt to balance this issue, we used lists of members of co-ops, joint action agencies, and municipal power associations to aggregate all of their members to a similar group level, rather than trying to disaggregate the group reporting which could not be done accurately..

- Form EIA-861 data: <https://www.eia.gov/electricity/data/eia861/>

Slide 4: Statewide Policy Collaboratives

This comes from MEEA's tracking of state energy efficiency policies and participation in these collaboratives and workgroups.

Slide 6: Top Savers from Energy Codes

The top 5 energy code savers by state come from an analysis MEEA conducted to determine the cumulative total energy impact from updated energy codes in the Midwest from 2009 to 2018. MEEA then took the total cumulative energy savings per state for residential and commercial energy codes over this time period and divided those savings by the total amount of new residential units (MMBTU/Unit) and new commercial square footage (Kbtu/sq. ft) per

state. This enabled us to adjust for total new construction by state and create an equal comparison of energy savings attributed to improved energy codes by state. To calculate the total new residential units, we used data from the US Census Residential Building Permits Survey and to calculate the total new commercial square footage built we used data from the Commercial Construction Market. The model was updated for 2019 to include new data and savings.

- Building Energy Code Impacts in the Midwest: http://www.mwalliance.org/sites/default/files/meea-research/impact_of_ec_in_mw_2009-2018.pdf?current=/taxonomy/term/11
- US Census Residential Building Permits Survey: <https://www.census.gov/construction/bps/>
- Commercial Construction Market (CMD) Data: <https://www.cmdgroup.com/>

Slide 7: Energy Code Compliance Collaboratives

This information comes from MEEA's internal tracking of Statewide Energy Code Compliance Collaboratives in the Midwest. MEEA is also heavily involved with all these collaboratives. Information about these collaboratives can be found in their respective state energy code pages on our website.

- MEEA's Building Energy Code Website: <http://www.mwalliance.org/initiatives/policy/building-energy-codes>

Slide 8: MWh Generated via Combined Heat and Power

The data on CHP generation of electricity comes again from the Energy Information Administration, this time from Form EIA-923 annual generation data.

- Form EIA-923 data: <https://www.eia.gov/electricity/data/eia923/>

Slide 9: New ENERGY STAR Certified Homes

The data on Home Performance with ENERGY STAR homes comes from internal tracking by the EPA's HPwES program. Additional information about ENERGY STAR Certified new homes is available on the EPA ENERGY STAR data team's Tableau Public page.

- ENERGY STAR Certified Homes at Tableau Public: <https://public.tableau.com/profile/energystarhomes#!/>

Slide 10: Building Operator Certification Graduates

This data comes from MEEA's internal tracking for the Building Operator Certification (BOC) program, which we have been implementing for our region since 2003.

- Building Operator Certification: <http://www.boccentral.org>

Slide 11: Manufacturers of Energy Efficient Products

The data we used for this map comes from a few different sources. First is our own CRM database, which includes some manufacturers who we have contact with – members, subscribers, event participants and such. The ENERGY STAR partners list also played a big part in the data for this map. Other locations come from membership lists from product manufacturing



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associations – such as NAIMA and PIMA that represent different types of insulation manufacturers.

- ENERGY STAR Partners List:
https://www.energystar.gov/index.cfm?fuseaction=estar_partner_list.showpartnersearch

Slide 12: Energy Efficiency Jobs

The data on energy efficiency jobs in the Midwest states comes from E4 the Future's *Energy Efficiency Jobs in America(2019)* report, which shows EE jobs at the national, state, metro area and congressional district.

- E4 the Future – Energy Efficiency Jobs in America: <https://e4thefuture.org/how-we-help/faces-of-ee/faces-of-ee-nuts-and-bolts/>

Slide 13: Energy Efficiency Financing

The data on PACE financing availability and investment in MEEA's region comes from PACENation, an organization that tracks PACE around the country. The on-bill financing information comes from MEEA's own tracking of financing options in the region.

- PACENation: <https://pacenation.org/pace-programs/#>!
- MEEA EE Financing factsheet: <http://www.mwalliance.org/sites/default/files/meea-research/on-bill-fact-sheet-11.5.18.pdf>