



# **Benchmarking Energy Use Using the ENERGY STAR Portfolio Manager Tool**



# Why focus on buildings and plants?

**U.S. CO2 Emissions**

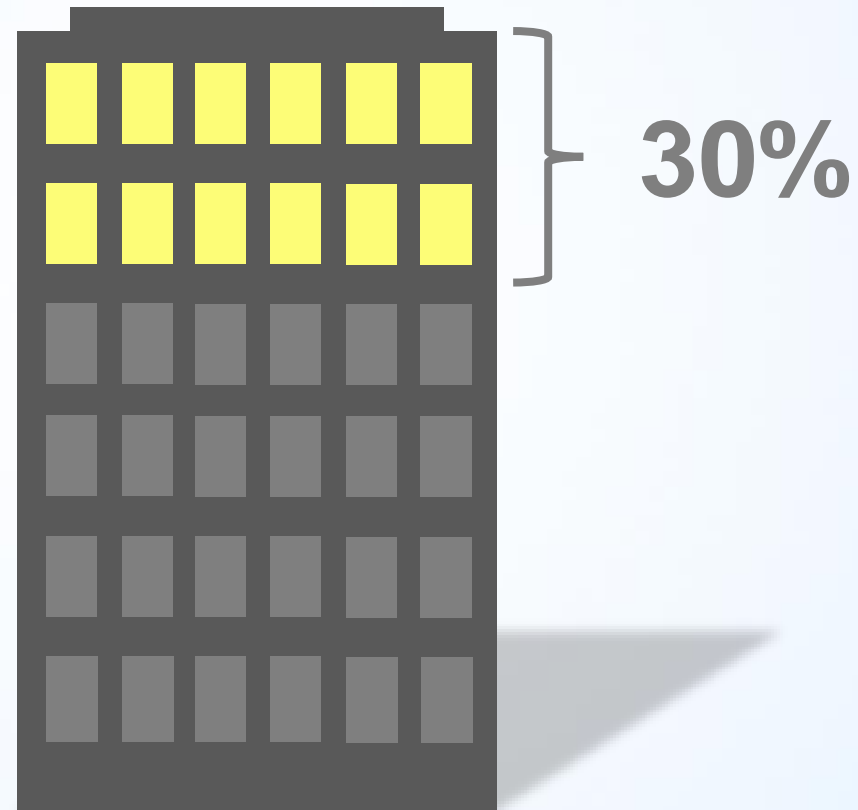


Commercial buildings & industrial plants

Category	Percentage
Commercial buildings & industrial plants	~25%
Other sectors	~75%

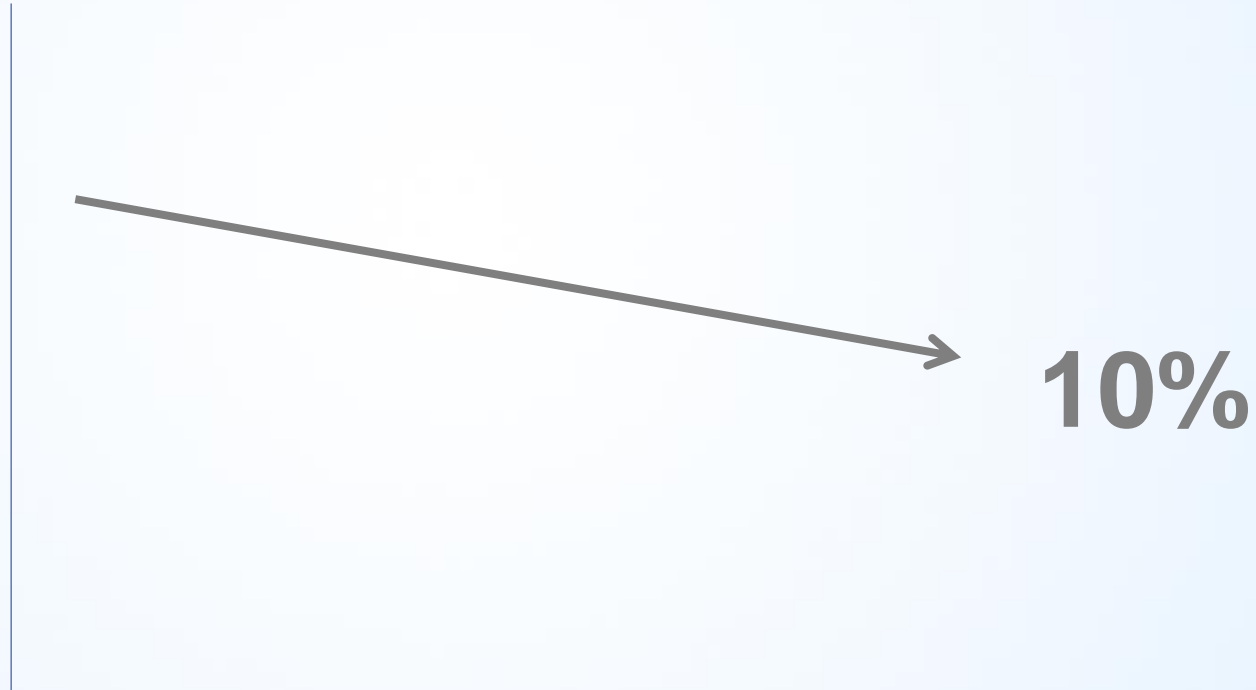
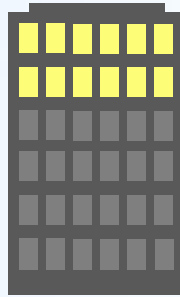
# Why focus on buildings and plants?

Energy waste in buildings – including worship facilities



# Why focus on buildings and plants?

Low- to no-cost reduction potential



# Benchmark your Energy Use

*Benchmarking allows you to:*



Compare your building to a **national sample** of similar buildings



Compare your buildings of a similar type to **each other**



**Identify underperformers** in your portfolio and set priorities for the use of limited staff time and/or investment capital

**ANY building can be benchmarked.**



# ENERGY STAR® PortfolioManager®





## Management Tool



Assess whole building energy and water consumption, plus waste



Track green power purchase



Share/report data with others



Track changes in energy, water, greenhouse gas emissions, and cost over time



Create custom reports



Apply for ENERGY STAR certification

## Hundreds of metrics, including:



**Energy use**  
Source, site,  
weather  
normalized,  
demand



**Water use**  
Water use  
intensity,  
Water Score  
(for Multifamily)



**Waste &  
Materials**  
Waste intensity,  
diversion rate



**1-100  
ENERGY  
STAR score**

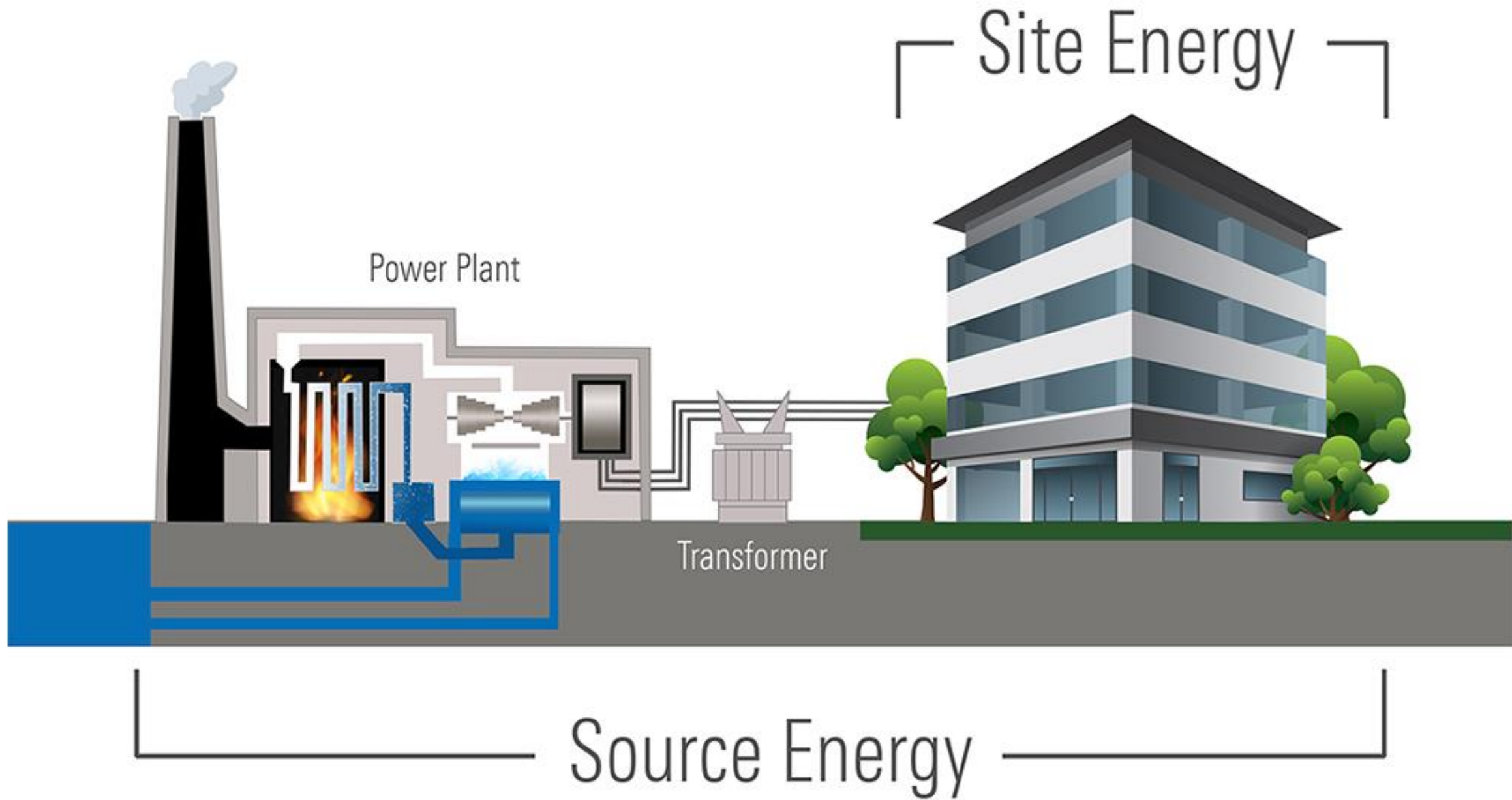


**GHG  
emissions**  
Indirect,  
direct, total,  
avoided



# Setting Up an Account and Property in Portfolio Manager

1. Set up a user account in Portfolio Manager;  
[www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)
2. Use the data collection worksheet to gather information;  
<https://portfoliomanager.energystar.gov/pm/dataCollectionWorksheet>
3. Set up the property in Portfolio Manager;  
[www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)
4. Look at property trends and understand energy (and water) use



# The 1-100 ENERGY STAR Score



One simple number  
understood by ALL stakeholders

# ENERGY STAR Certified Worship Facilities

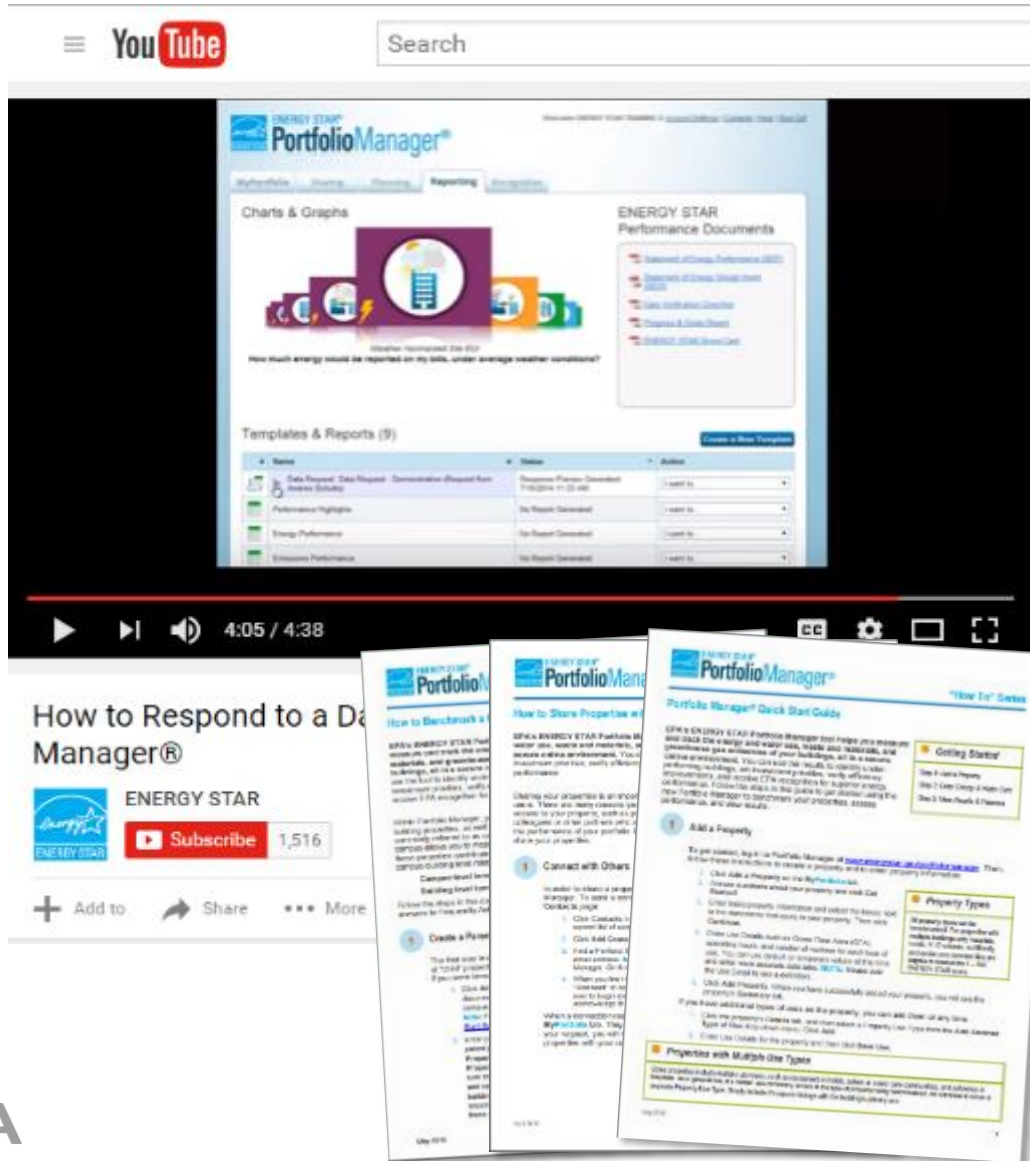
- **136** worship facilities have earned the ENERGY STAR
- **59** certified worship facilities located in **Michigan**—highlights dedicated outreach and technical support of Michigan IPL
- At this time, 3 worship facilities have earned ENERGY STAR certification in **Virginia**
- 8 certifications from **Unitarian** churches across the country





# Portfolio Manager Training

[energystar.gov/buildings/training](http://energystar.gov/buildings/training)



- Weekly live webinars; recorded for “24/7” access
- 3 – 7 minute training videos on YouTube
- Step-by-step training guides, fact sheets, FAQs, and technical reference documents
- Link to the highly rated ENERGY STAR Help Desk

# ENERGY STAR Help Desk

[energystar.gov/buildingshelp](http://energystar.gov/buildingshelp)

## Portfolio Manager Help



### [Learn More about Portfolio Manager](#)

Get fact sheets, quick reference guides and other information about how the tools works.



### [Search the Knowledge Base](#)

Browse or search our Frequently Asked Questions.



### [Check the Glossary](#)

Look up terms used throughout Portfolio Manager.



### [Take or View a Training](#)

Sign up for a session or view a recording on a wide variety of topics.



### [Ask a Question](#)

Send a question or comment to our staff.




### [Web Service Documentation](#)

If you exchange data via web services, check out the documentation or get email updates.


## Technical References

Are you into the math of it all? Learn more about how Portfolio Manager calculates metrics.


 [Source Energy](#)

 [Greenhouse Gas Emissions](#)

 [ENERGY STAR Scale](#)

 For more information on specific property types, like office and school, visit the [ENERGY STAR website](#). These are available in English only.

 [National Median Values](#)

 [Accounting for Climate & Weather](#)

 [Thermal Conversion Factors](#)

[Get more documentation on the ENERGY STAR website.](#)

Don't forget, we're out there with you! Network with us and other folks who are using Portfolio Manager.



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**[www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)**



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