



**Portfolio Manager & GRITS:
Announcing a new initiative to better track
energy efficiency projects**

Hosted by:
Sustainable Endowments Institute

Presenters

- Brendan Hall, Public Sector Program Manager, ENERGY STAR Buildings
- Mark Orlowski, Executive Director, Sustainable Endowments Institute
- Daniel Edson, State Energy Program Manager, Department of Buildings & General Services, State of Vermont

GRITS Overview

- An intuitive project-management platform used to calculate, manage and share the energy, financial, water, waste and carbon savings data from resource-efficiency projects.
- GRITS is a subscription-based platform but thanks to SEI becoming an Energy Star Partner, Portfolio Manager users at city/county/state governments, universities, K-12 schools and healthcare institutions receive free basic GRITS access.



GRITS Vision

- Through better project tracking, GRITS helps institutions accelerate investment in energy efficiency and other sustainability projects resulting in lower carbon emissions and resource consumption.
- GRITS allows users to easily demonstrate the financial and environmental benefits of sustainability projects to internal and external stakeholders.
- GRITS creates a community of institutions sharing completed project data. It provides a library of projects for new project inspiration and benchmarking.





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Brendan Hall

Public Sector Program Manager

ENERGY STAR Buildings



Make energy management less MUSHy by benchmarking in Portfolio Manager

Brendan Hall

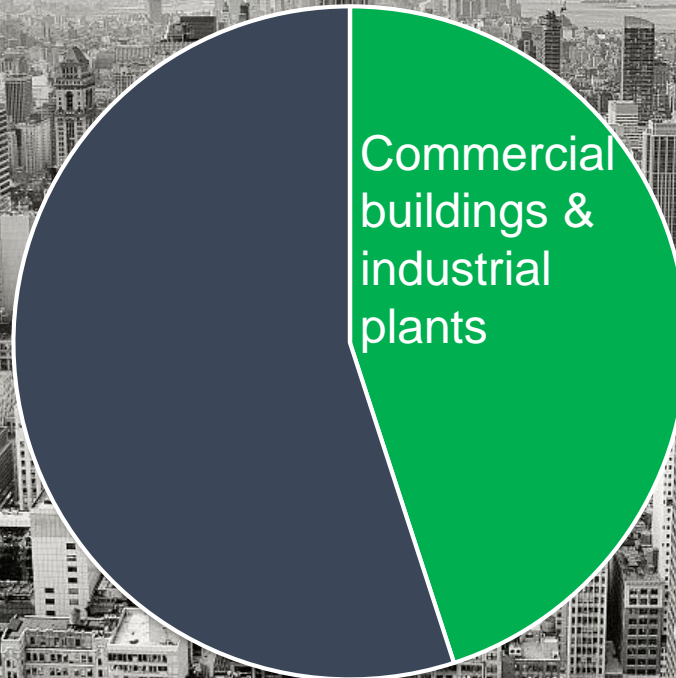
Public Sector Program Manager

ENERGY STAR Buildings



Why focus on buildings and plants?

U.S. CO₂ Emissions



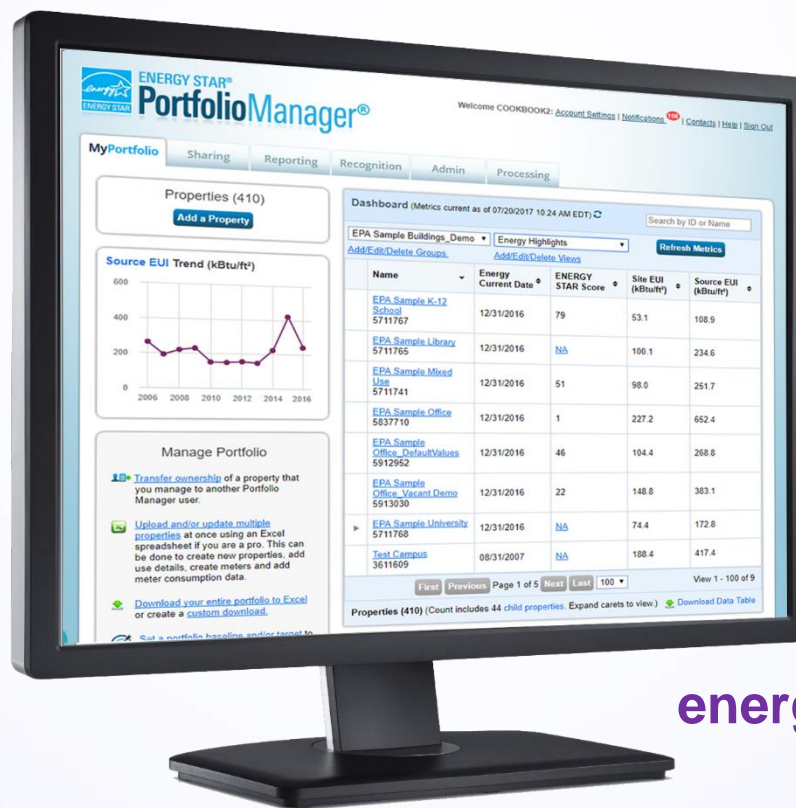
To date, the ENERGY STAR program has helped Americans:

- Save **\$450 billion**
- Save **3.5 trillion kWh** of electricity
- Avoid **3.1 billion metric tons** of GHG emissions





ENERGY STAR® PortfolioManager®



energystar.gov/benchmark



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



Track green power purchase



Create custom reports



Share/report data with others



Apply for ENERGY STAR certification



ENERGY STAR® PortfolioManager®

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



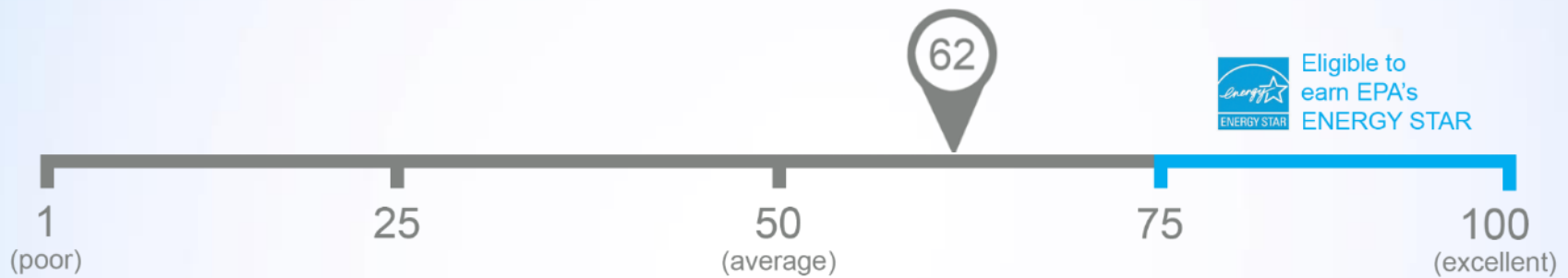
GHG emissions

Indirect,
direct, total,
avoided

The 1-100 ENERGY STAR Score

Percent cooled Number of staffed hospital beds Cooking facilities
Occupancy
Number of residential living units Energy usage data Percent heated
Weekly operating hours Heating degree days
Gross floor area Cooling degree days
Number of MRI machines Number of workers on main shift
Number of walk-in refrigerators Number of computers
Number of commercial washing machines Maximum resident capacity
Number of cash registers

The 1-100 ENERGY STAR Score



One simple number
understood by ALL stakeholders.

Property types with 1-100 ENERGY STAR scores

energystar.gov/EligiblePropertyTypes

Score based on CBECs data



Bank Branch



Barracks*



Courthouses



Distribution Centers



Financial Offices



Hotels



K-12 Schools



Office Buildings



Medical Offices*



Residence Hall/Dormitory*



Retail Stores



Supermarkets



Warehouses



Wholesale club/
Supercenters



Worship Facilities

Score based on other survey data



Data Centers



Hospitals



Multifamily Housing



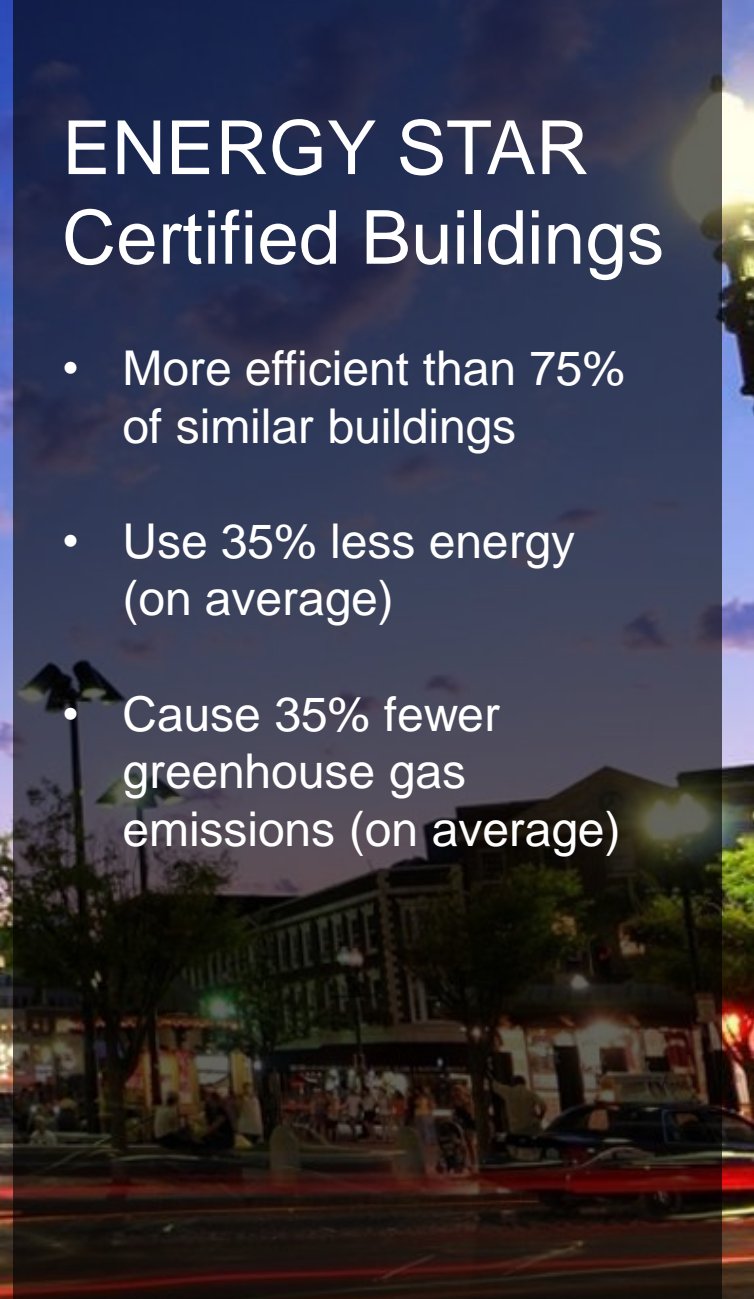
Senior Care Communities



Wastewater Treatment Plants*

ENERGY STAR Certified Buildings

- More efficient than 75% of similar buildings
- Use 35% less energy (on average)
- Cause 35% fewer greenhouse gas emissions (on average)



Find Utilities that Provide Energy Data for Benchmarking

FIND UTILITIES THAT PROVIDE ENERGY DATA FOR BENCHMARKING

Click on the map or search to quickly determine if your utility provides the energy data you need to benchmark in ENERGY STAR® Portfolio Manager®

Please enter your zip code below to show coverage in your area:

98126 **SEARCH** **RESET**

Utility Name: Puget Sound Energy
Fuel Type: Electric, Gas
Data Type: 1: Web Services
Aggregate Whole-Building Data: 1: Yes(5)
Multifamily Included: 1: Yes
Contact Info:
Email: MyData@pse.com
Web Address: Click [here](#) for more information.

Utility Name: Seattle City Light
Fuel Type: Electric
Data Type: 1: Web Services
Aggregate Whole-Building Data: 1: Yes(2)
Multifamily Included: 1: Yes
Contact Info:
Email: scl_portfolio_manager@seattle.gov
Web Address: Click [here](#) for more information.

Google

Utilities Providing Energy Data for Benchmarking in ENERGY STAR® Portfolio Manager®

Map data ©2016 Google Terms of Use

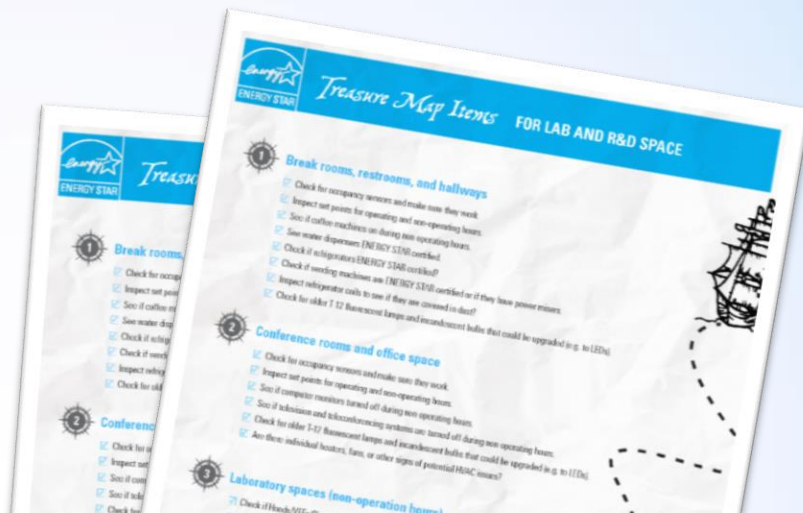
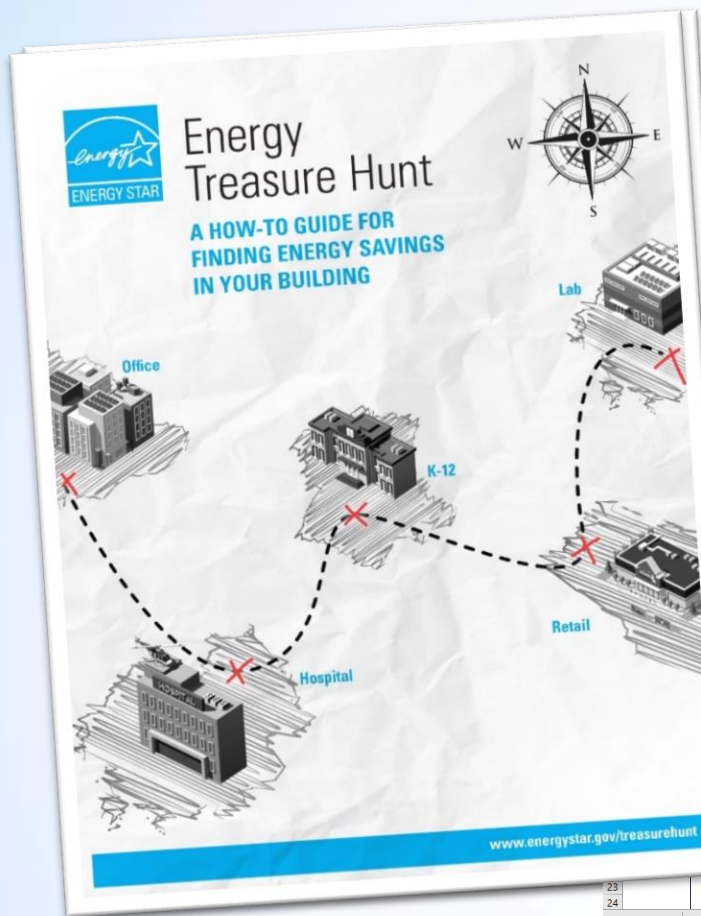
energystar.gov/utilitydata

200+ Providers Exchange Data with Portfolio Manager

energystar.gov/DataExchangeMostActive



Treasure Hunt Kit



Insert Page Layout Formulas Data Review View ACROBAT Tell me what you want to do

Project Details

Opportunity Short Title

Insert text describing the project area within the building.

Opportunity Type: ☐ Operational ☐ Equipment Modification ☐ Equipment Upgrade ☒ Other Originator(s):

Background: Insert text describing the background.

Opportunity: Insert text description of opportunity.

Equipment Name:	Current Situation (before Opportunity)		Equipment Name	Projected Situation (after Opportunity)	
	Business Hours	Non-Business Hours		Business Hours	Non-Business Hours
Running: Hours/Day			Running: Hours/Day		
Days/Month			Days/Month		
Months			Months		
Set point			Set point		
Other			Other		

Utility Use	Current Situation (before Opportunity)		Utility Use	Projected Situation (after Opportunity)	
	Business Hours	Non-Business Hours		Business Hours	Non-Business Hours
Electricity			Electricity		
Natural Gas			Natural Gas		
District Steam			District Steam		

Quick Converter Opportunity Summary Project Details 1 Project Details 2 Project Details 3

energystar.gov/TreasureHunt

Questions & contact info

Brendan Hall

Hall.Brendan@epa.gov

202-343-9939

- How-to's and trainings on Portfolio Manager: energystar.gov/buildings/training
- FAQs and help desk: energystar.gov/buildingshelp



Portfolio Manager & GRITS: Announcing a new initiative to better track energy efficiency projects

Mark Orłowski

Executive Director

Sustainable Endowments Institute

GRITS Tour....

To watch the screenshare tour of GRITS that occurred during this webinar please view the video recording of the webinar starting at the 22:45 mark available here:

<http://webinar-recording.gogrits.org>

Why Use GRITS?

- Designed to replace spreadsheets.
- Simplicity:
 - Even non-technical users can be trained to use GRITS in about 30 minutes
 - A user can enter their first project entered in 5 minutes or less.
- Manage projects from initial identification phase through end of life.
- Provides an easy and elegant business case analysis including environmental metrics.
- Share and demonstrate project impacts through the GRITS Library, Public Dashboard and shareable project links.



GRITS Users

- Airports
- City Governments
- Colleges / Universities
- Corporations
- County Governments
- Cultural Institutions / Museums
- Foundations
- Healthcare Institutions
- K-12 Schools / School Districts
- State Governments
- Utilities
- Water Utilities

Nearly 800 institutions use GRITS
across all 50 U.S. states, Canada,
Australia and New Zealand.



GRITS Impact



2,662,541

Carbon savings to date (MTCO₂e)



23,608,079

Energy savings to date (MMBTU)



392,221,966

Financial savings to date (USD)



3,153

Completed Projects

Free Access to PM and GRITS

If you don't already have access to Portfolio Manager or GRITS, you can sign up for free to access both tools:

Free Portfolio Manager sign up

portfoliomanager.energystar.gov/pm/signup

Free GRITS sign up

portfoliomanager.gogrits.org



GRITS & Portfolio Manager: Comparison Chart

Feature	GRITS	Portfolio Manager
Benchmarking: Building-level		✓
Benchmarking: Project-level	✓	
Business case analysis	✓	
Data sharing: Buildings		✓
Data sharing: Projects	✓	
Evaluate and prioritize potential projects	✓	
Import: Building data		✓
Import: Project data	✓	
Link utility data		✓
Metrics: Building-level		✓
Metrics: Project-level	✓	
Project Library	✓	
Public Dashboard	✓	
Recognition (ENERGY STAR)		✓
Reports	✓	✓

GRITS Features

Features	Portfolio Manager - Free	Unlimited
Number of projects entered	Unlimited	Unlimited
Number of saved projects	5	Unlimited
Number of users	Unlimited	Unlimited
Dashboard	✓	✓
Projects overview	✓	✓
Project details	✓	✓
Project PDF export	✓	✓
Sharing features	✓	✓
Project library	Partial access	✓
Project data import / export (XLS)		✓
Reporting feature (graphs & charts)		✓
Subscription	Free	Monthly or annual fee (\$)



Portfolio Manager & GRITS: Announcing a new initiative to better track energy efficiency projects

Daniel Edson

State Energy Program Manager

Department of Buildings & General Services, State of Vermont

Daniel Edson
State Energy Program Manager
BGS Energy Office
June 10, 2019

Why GRITS & Energy
Star Portfolio Manager
Can Drive Success in
the MUSH Sector

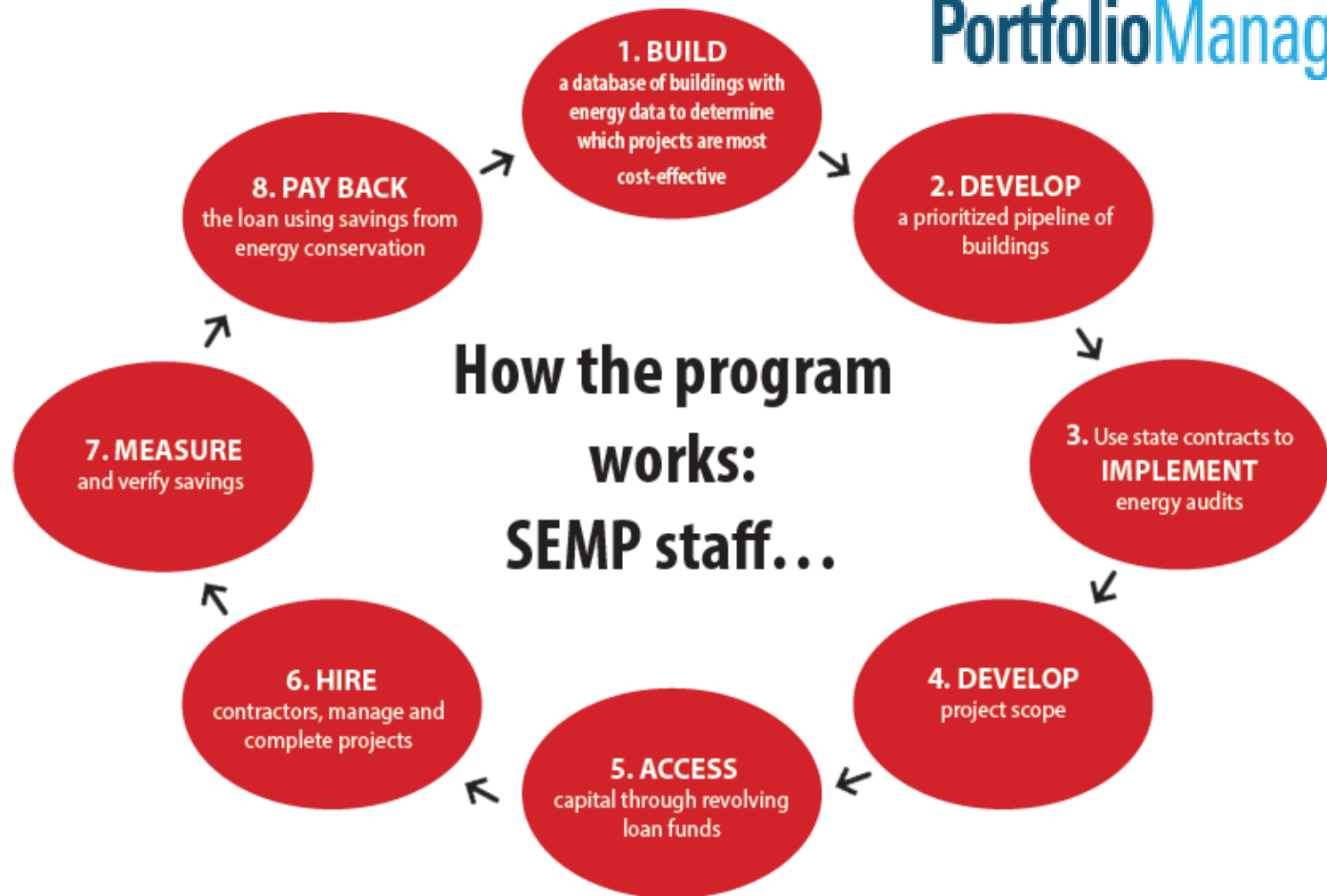
State Energy Management Program

History and Background

- Vermont General Assembly Established \$9.5 million Green Revolving Loan Fund.
- State Government Partnered with Efficiency Vermont to internalize Energy Savings Performance Contracting.

Our Process

ENERGY STAR®
PortfolioManager®

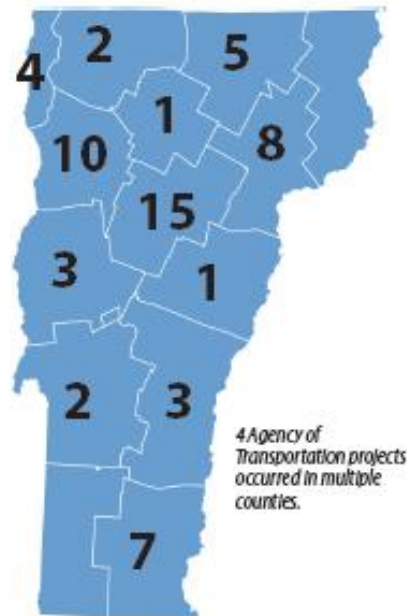


Results

Savings From SEMP Program

50 Completed Projects in
12 Vermont Counties;
15 In Process = 65 Total

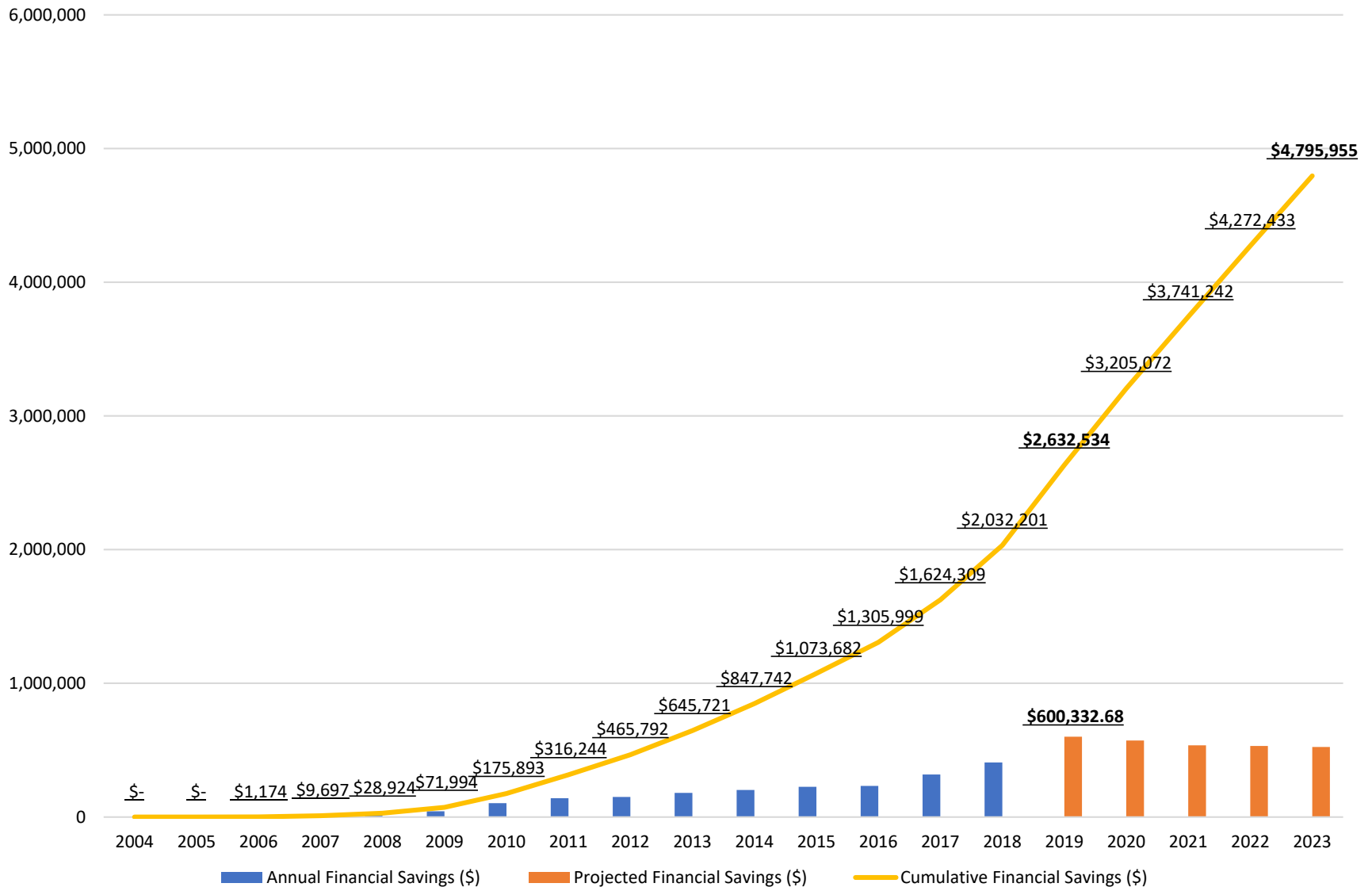
Proposed Cost	\$8.6 million
Ave. Annual Savings	\$1.1 million
Lifetime Savings	\$16.6 million



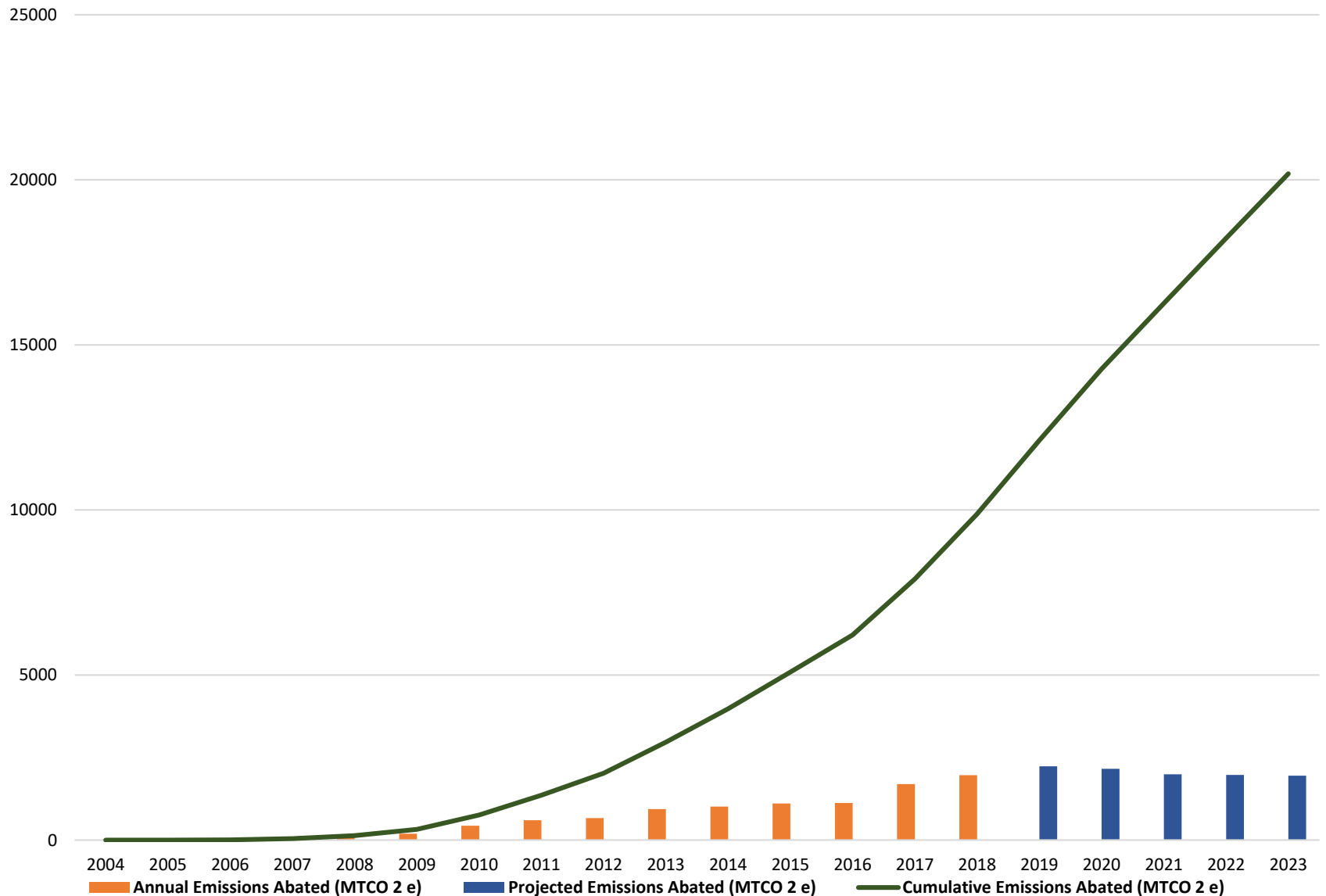
An example of savings generated from the SEMP program is the LED lighting upgrade of spotlights that illuminate the State House. This project saves the State about \$7,500 annually.

Revolving Loan Funds Financial Savings Over Time

Generated Using GRITS

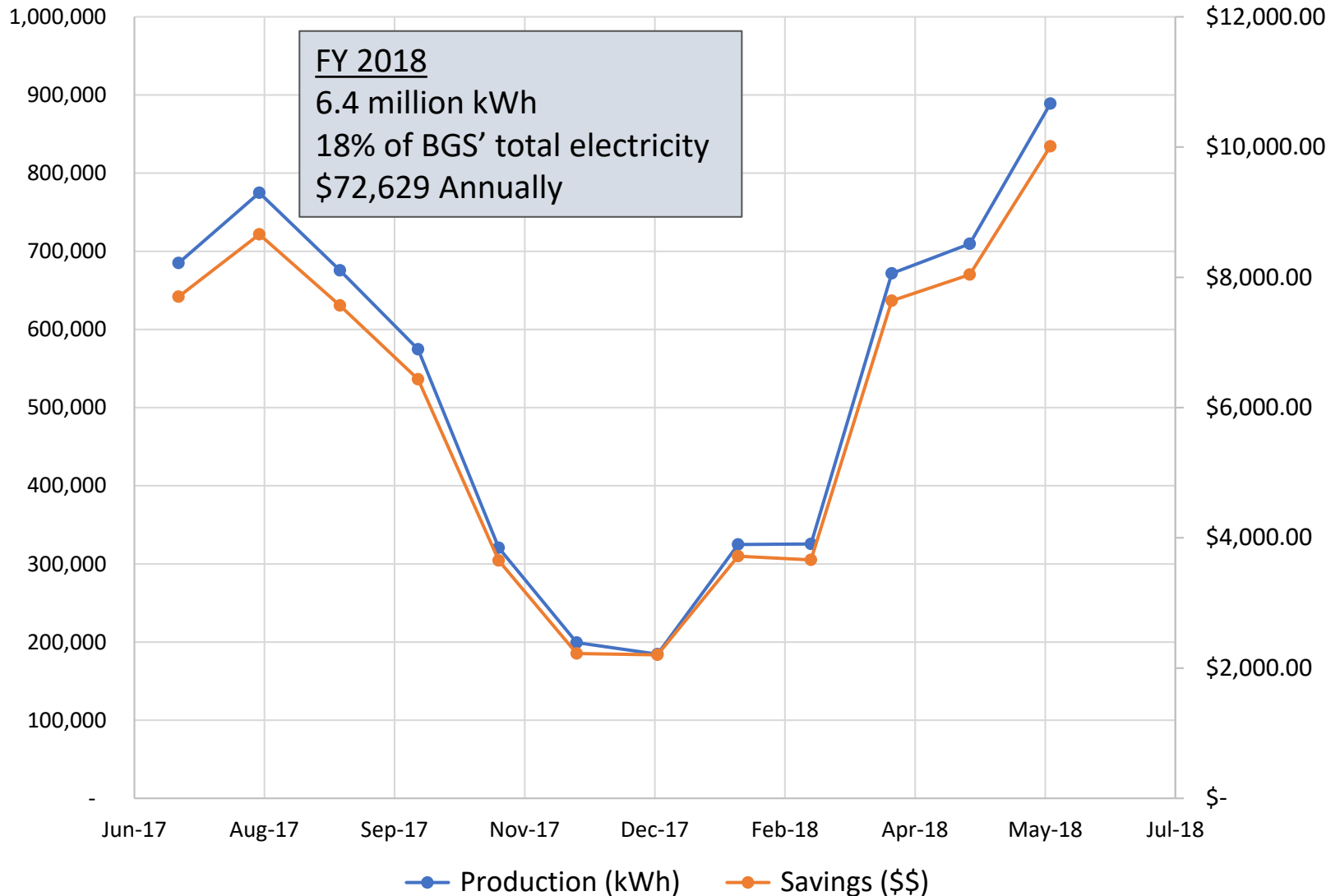


Revolving Loan Funds Carbon Emissions Reduced Over Time Generated Using GRITS



Solar Power Generation and Savings

20,110,986 solar kWh Generated



Keys To Success



Thank You

Portfolio Manager Sign-Up

portfoliomanager.energystar.gov/pm/signup

GRITS Questions and to Sign-Up for Free GRITS Access:

portfoliomanager.gogrits.org or info@gogrits.org

Contact

- Brendan Hall (hall.brendan@epa.gov)
- Mark Orłowski (mark@gogrits.org)
- Daniel Edson (Daniel.Edson@vermont.gov)

