Introduction to B3 Benchmarking

SE CERTs: Capturing Savings from Public Building Energy Efficiency

November 1, 2018

Cheri Schneider

THE WEIDT GROUP®

the energy practice of EYP Inc.

© 2017 The Weidt Group

Have you ever been asked..."How do your buildings compare?"

B3 Benchmarking allows you to compare buildings from four major benchmarking perspectives:

B3 BENCHMARK

An engineering model using DOE-2 simulations and B3 energy standards to compare a building's actual use to expected use.

PEER COMPARISON

56

An evaluation of a building to our database of buildings with similar space usage and geographic location provides true peer comparison.

ENERGY STAR®

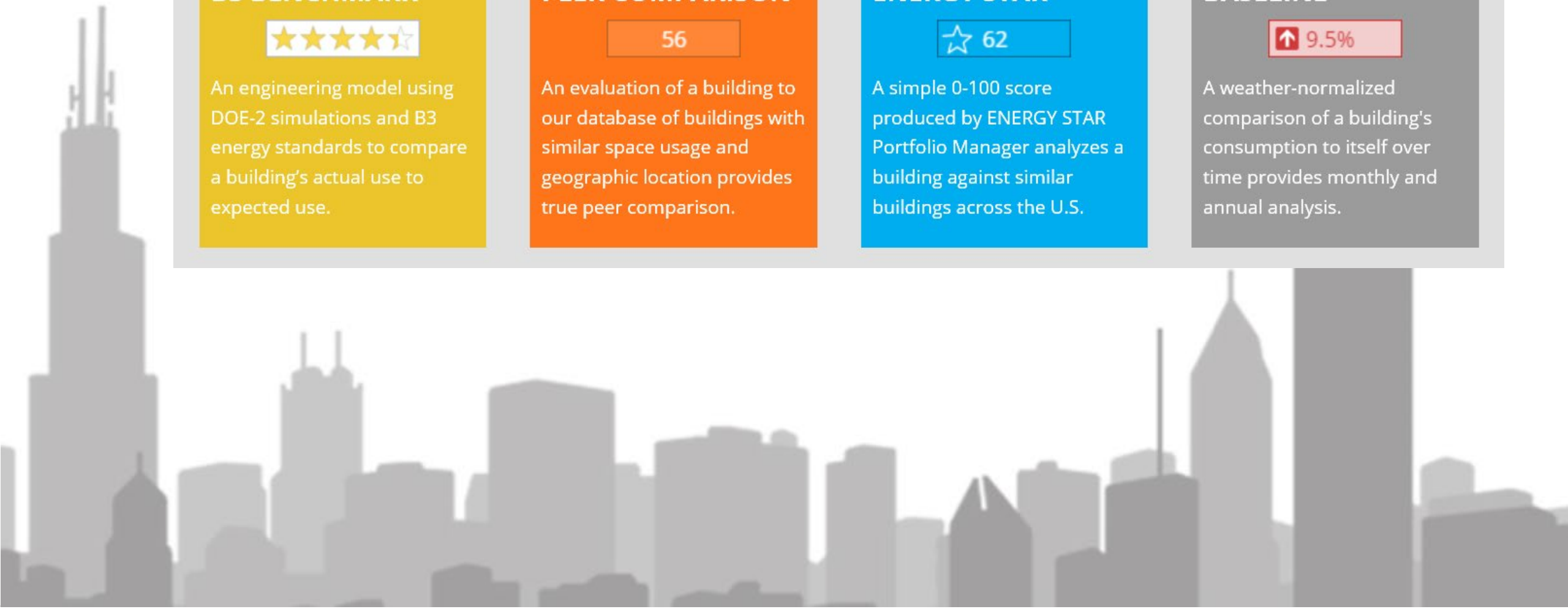
62

A simple 0-100 score produced by ENERGY STAR Portfolio Manager analyzes a building against similar buildings across the U.S.

BASELINE

9.5%

A weather-normalized comparison of a building's consumption to itself over time provides monthly and annual analysis.



B3 History:

- 2001 State legislation passed
- 2004 MNBenchmarking.com established for public buildings

Today:

- B3 Benchmarking currently has more than 527 million square feet contained in over 12,000 buildings
- Benchmark 50+ building types containing 60+ space types

MINNESOTA B3 BUILDINGS, BENCHMARKS & BEYOND

Tools and Programs for Sustainable Buildings in Minnesota

Design of New Buildings and Renovations

B3 GUIDELINES

Use **B3 Guidelines** on new buildings or renovations to meet sustainability goals for site, water, energy, indoor environment, materials and waste.

SB 2030 ENERGY STANDARD

Use the **SB 2030 Energy Standard** to meet energy use goals only. If the B3 Guidelines are used, the SB 2030 Energy Standard is automatically included in the process.

Operation of Existing Buildings

B3 BENCHMARKING

Use **B3 Benchmarking** to track and compare energy use on existing buildings.The B3 Guidelines and SB 2030 Energy Standard direct the user to the B3 Benchmarking tool.

B3 ENERGY EFFICIENT OPERATIONS

Use **B3 Energy Efficient Operations** to minimize energy use during building operations. This program can be applied to any existing building.

B3 POST-OCCUPANCY EVALUATION

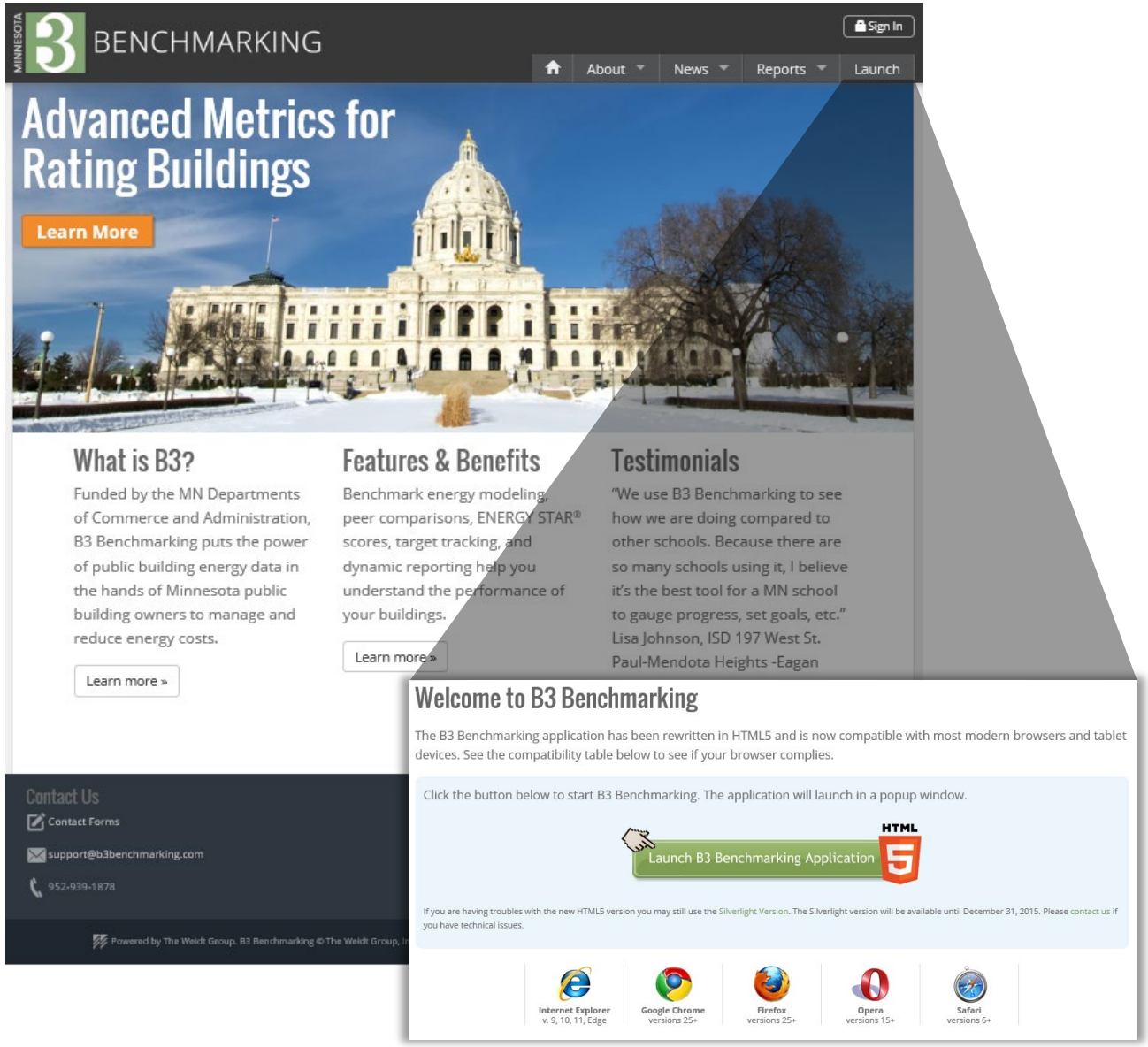
Use **B3 Post Occupancy Evaluation (POE)** to determine occupants' perceptions of the buildings' indoor environmental quality. The POE survey is required for B3 buildings.

© 2017 The Weidt Group

MN.B3Benchmarking.com

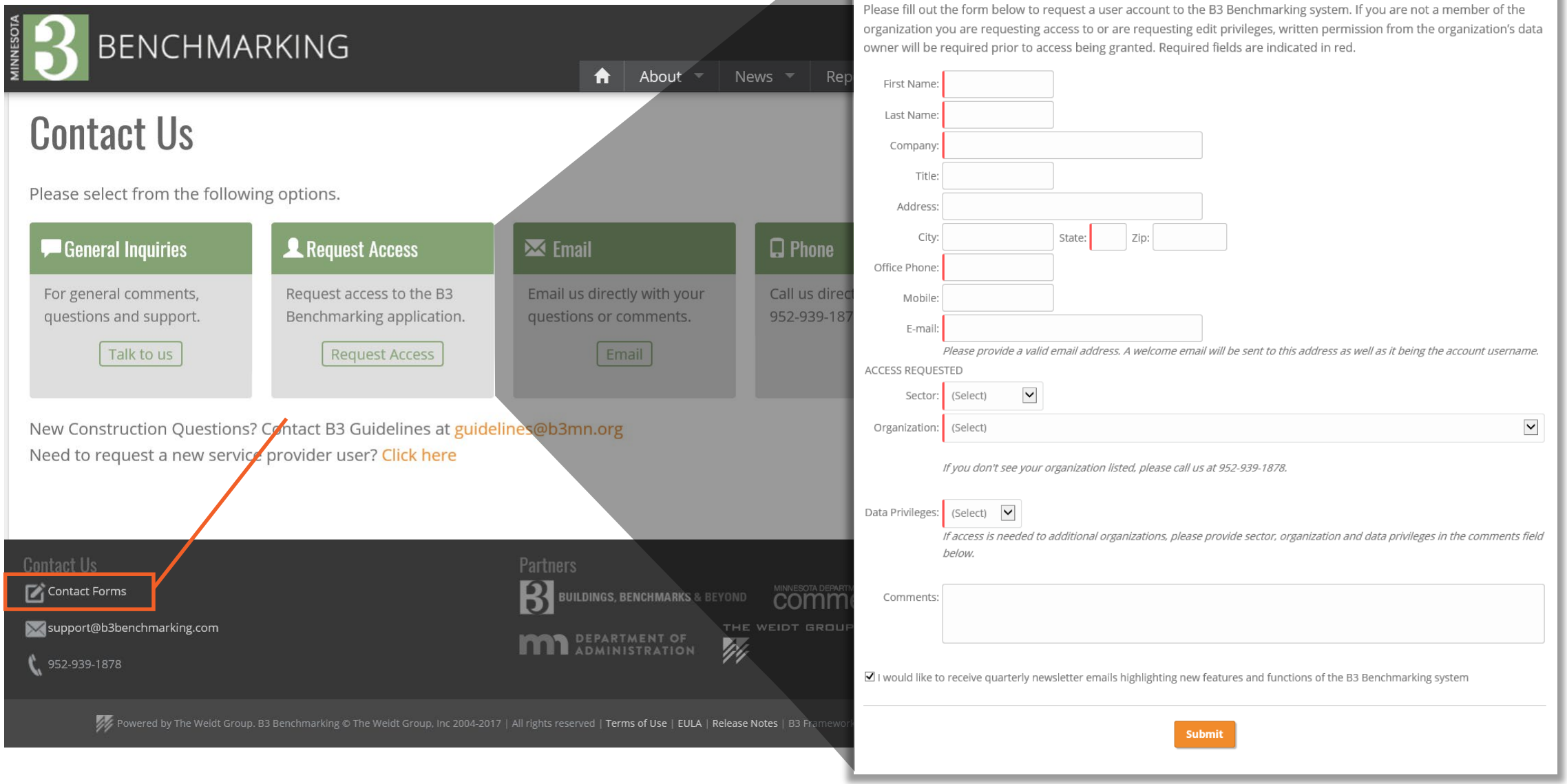
1. Public Sections
   - Home
   - About
     - Webinars
     - Support Videos
   - News
   - Reports
     - Public summary of data

2. Secure Section
   - Launch
     - Once signed in,
       button to launch application

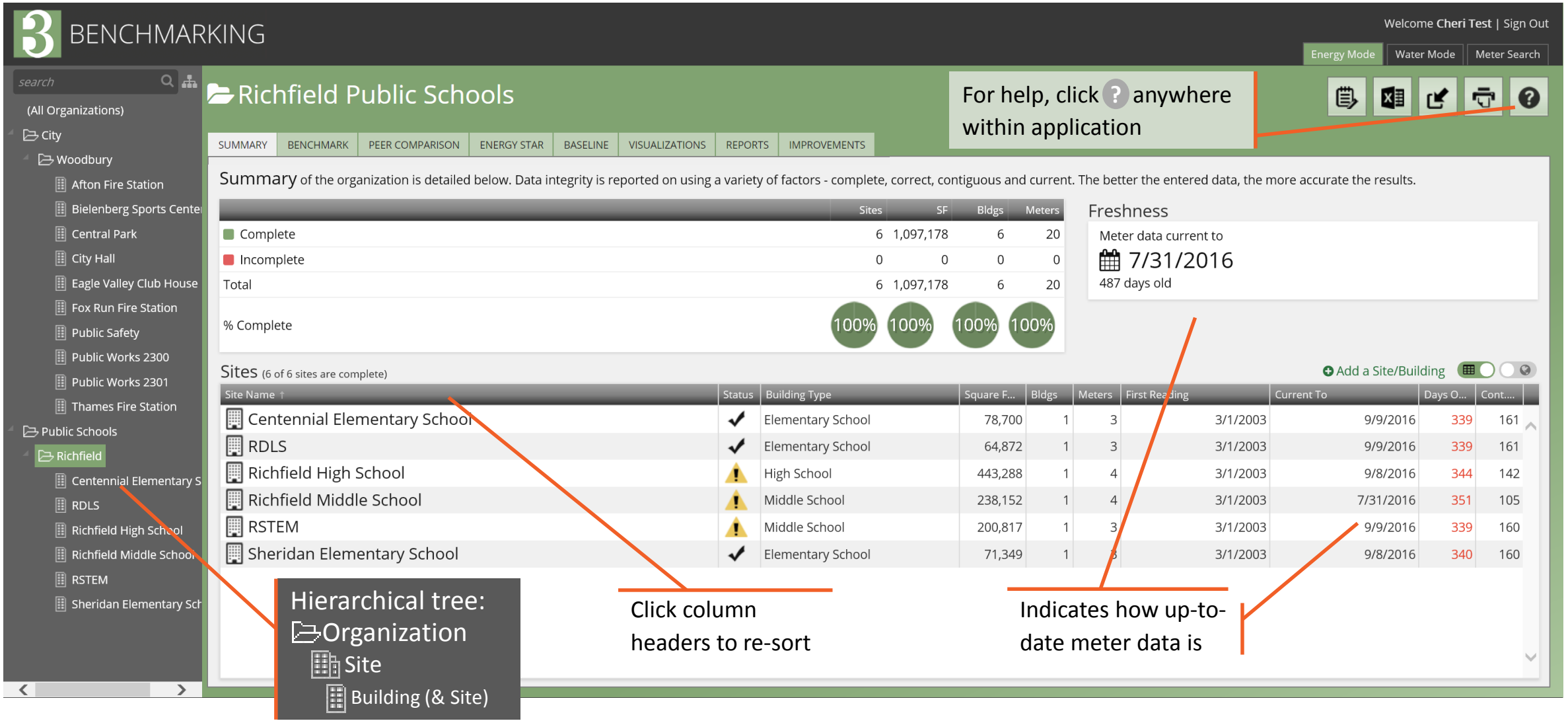


© 2017 The Weidt Group

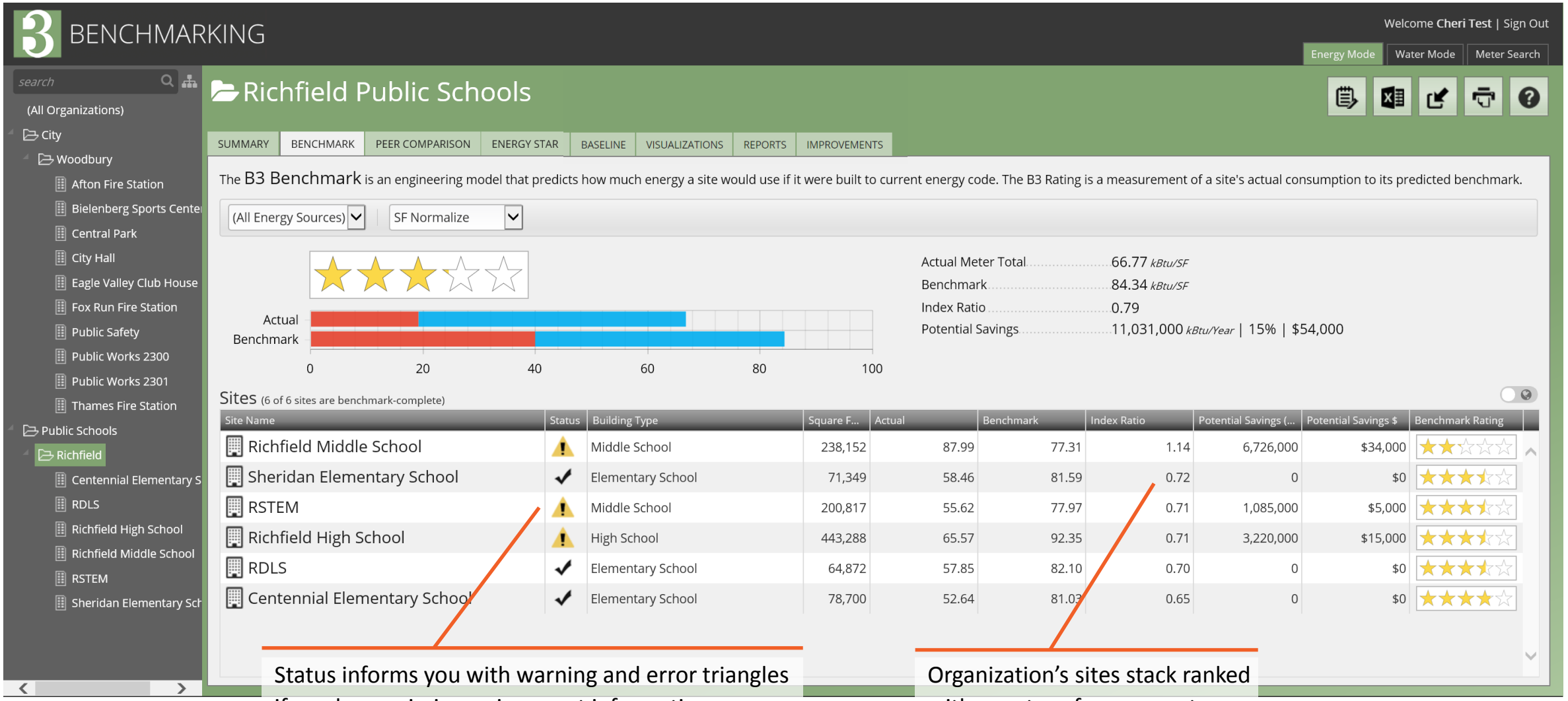
Contact Us


MINNESOTA B3 BENCHMARKING
About
News
Contact Us
Please select from the following options.
General Inquiries
For general comments, questions and support.
Talk to us
Request Access
Request access to the B3 Benchmarking application.
Request Access
Email
Email us directly with your questions or comments.
Email
Phone
Call us direct
952-939-187
New Construction Questions? Contact B3 Guidelines at guidelines@b3mn.org
Need to request a new service provider user? Click here
Contact Us
Contact Forms
support@b3benchmarking.com
952-939-1878
Partners
BUILDINGS, BENCHMARKS & BEYOND
DEPARTMENT OF ADMINISTRATION
THE WEIDT GROUP
Powered by The Weidt Group. B3 Benchmarking © The Weidt Group, Inc 2004-2017 | All rights reserved | Terms of Use | EULA | Release Notes | B3 Framework
Request Access
Please fill out the form below to request a user account to the B3 Benchmarking system. If you are not a member of the organization you are requesting access to or are requesting edit privileges, written permission from the organization's data owner will be required prior to access being granted. Required fields are indicated in red.
First Name:
Last Name:
Company:
Title:
Address:
City:
State:
Zip:
Office Phone:
Mobile:
E-mail:
Please provide a valid email address. A welcome email will be sent to this address as well as it being the account username.
ACCESS REQUESTED
Sector: (Select)
Organization: (Select)
If you don't see your organization listed, please call us at 952-939-1878.
Data Privileges: (Select)
If access is needed to additional organizations, please provide sector, organization and data privileges in the comments field below.
Comments:
I would like to receive quarterly newsletter emails highlighting new features and functions of the B3 Benchmarking system
Submit

Organization Summary



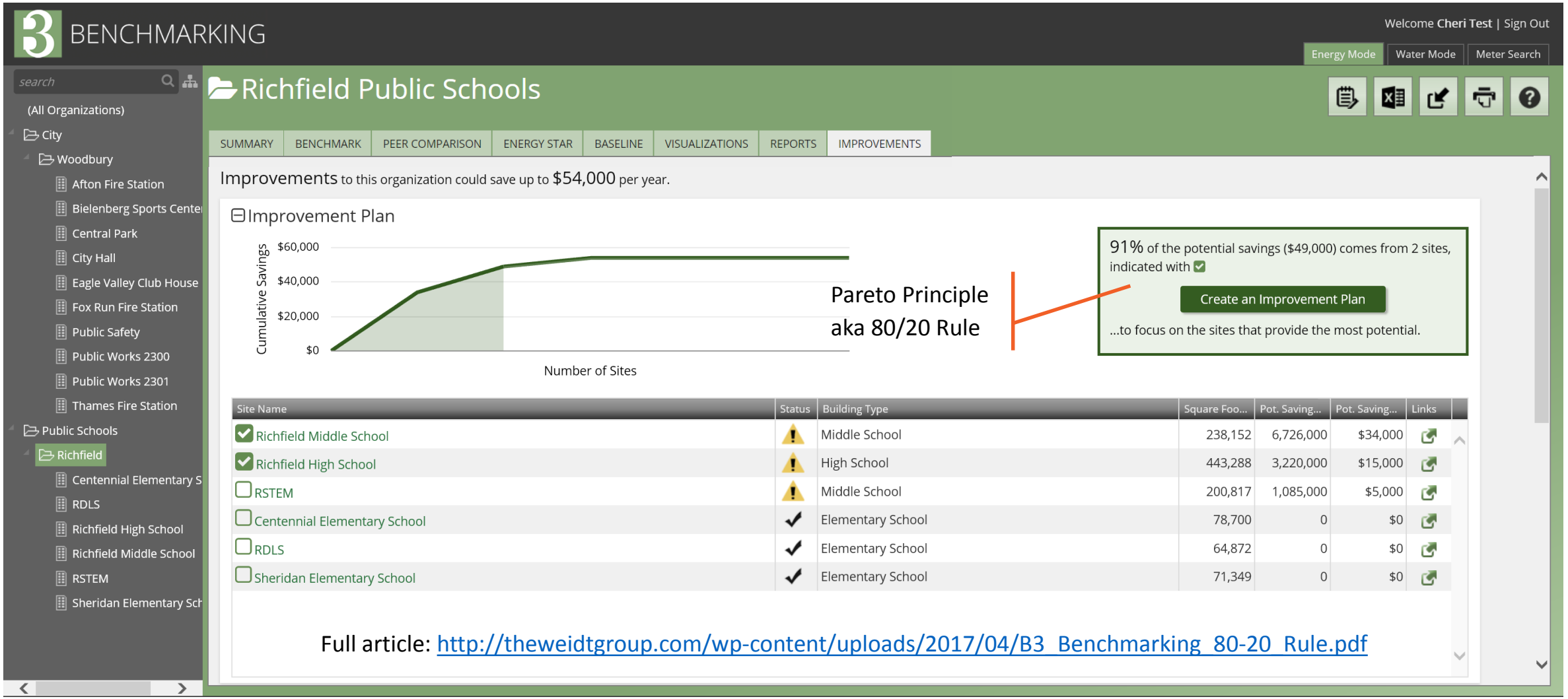
Organization Benchmark



Status informs you with warning and error triangles if you have missing or incorrect information

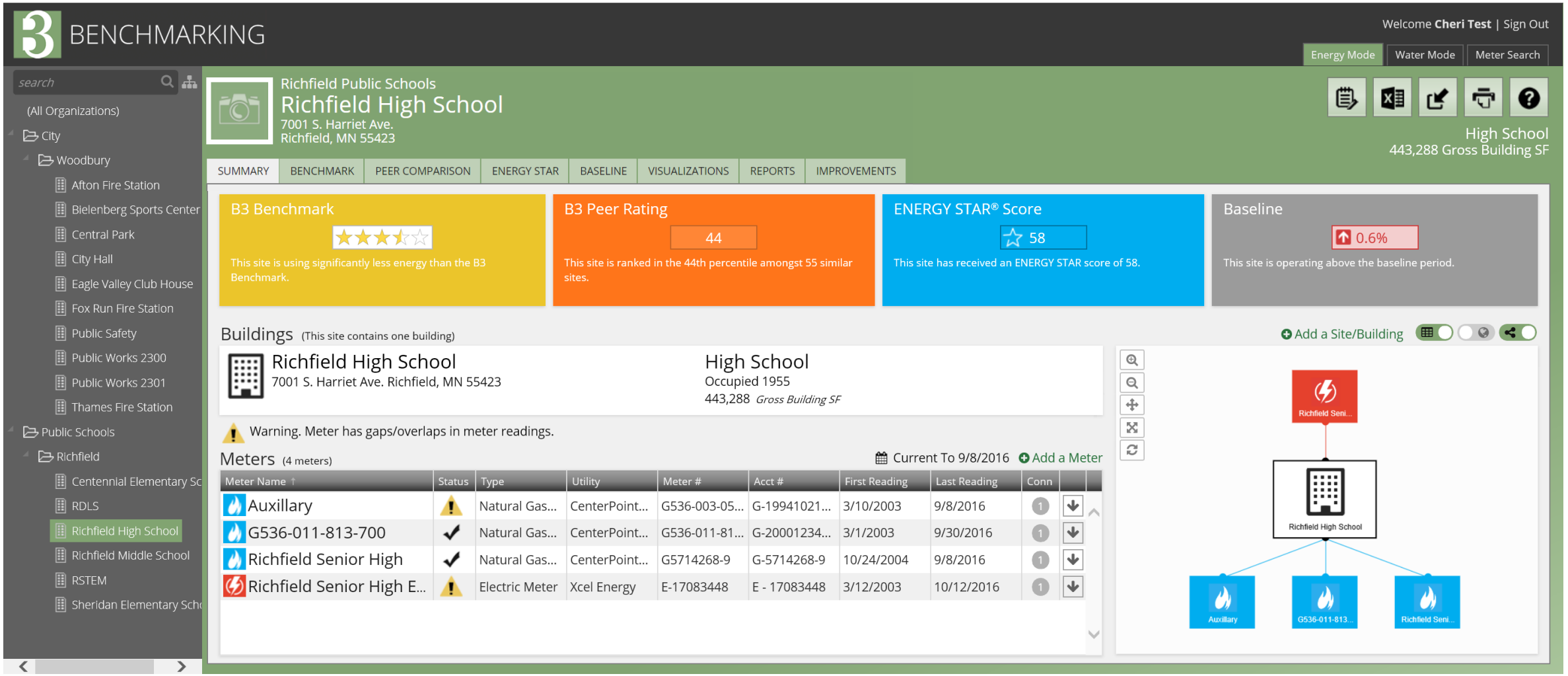
Organization's sites stack ranked with worst performers on top

Organization Improvements

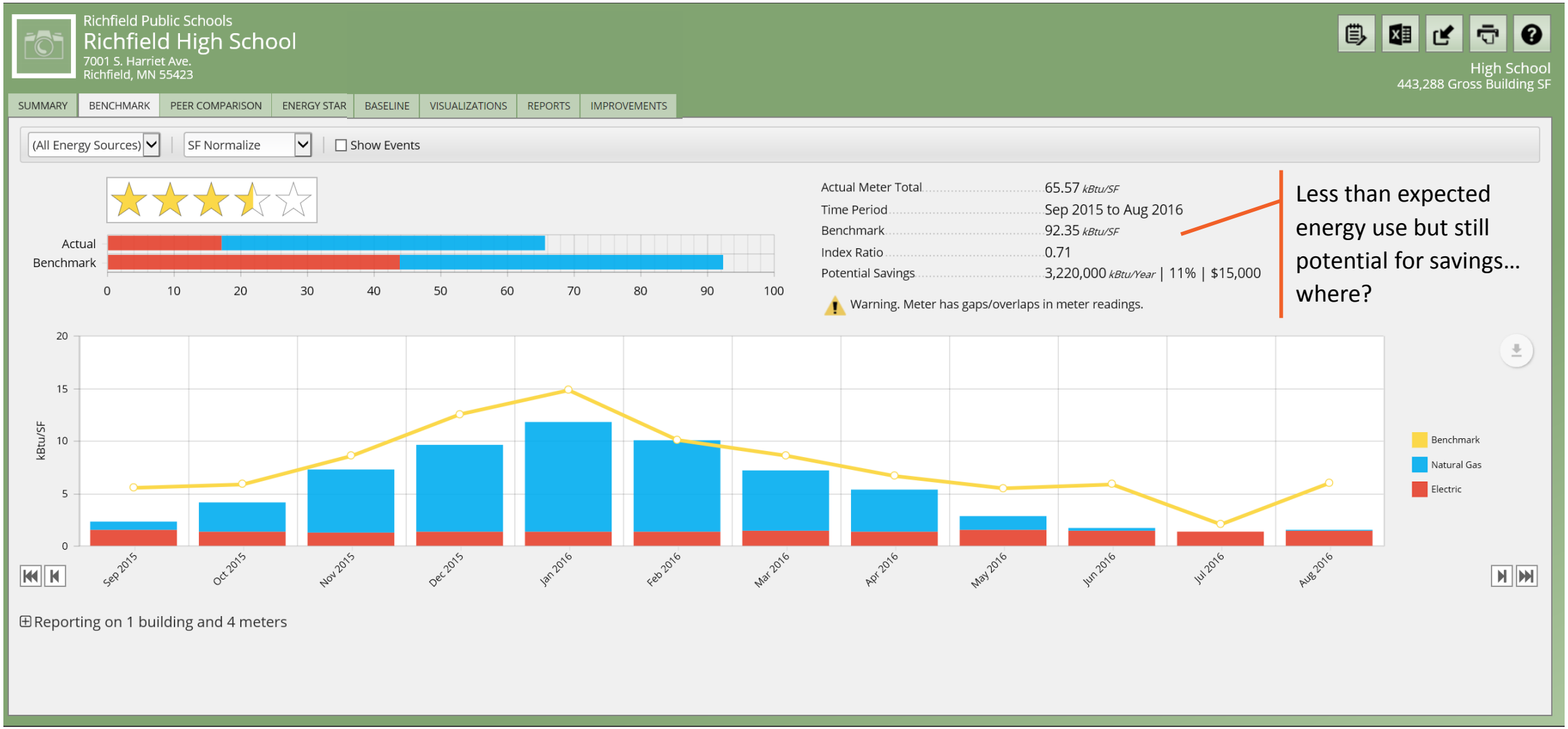


© 2017 The Weidt Group

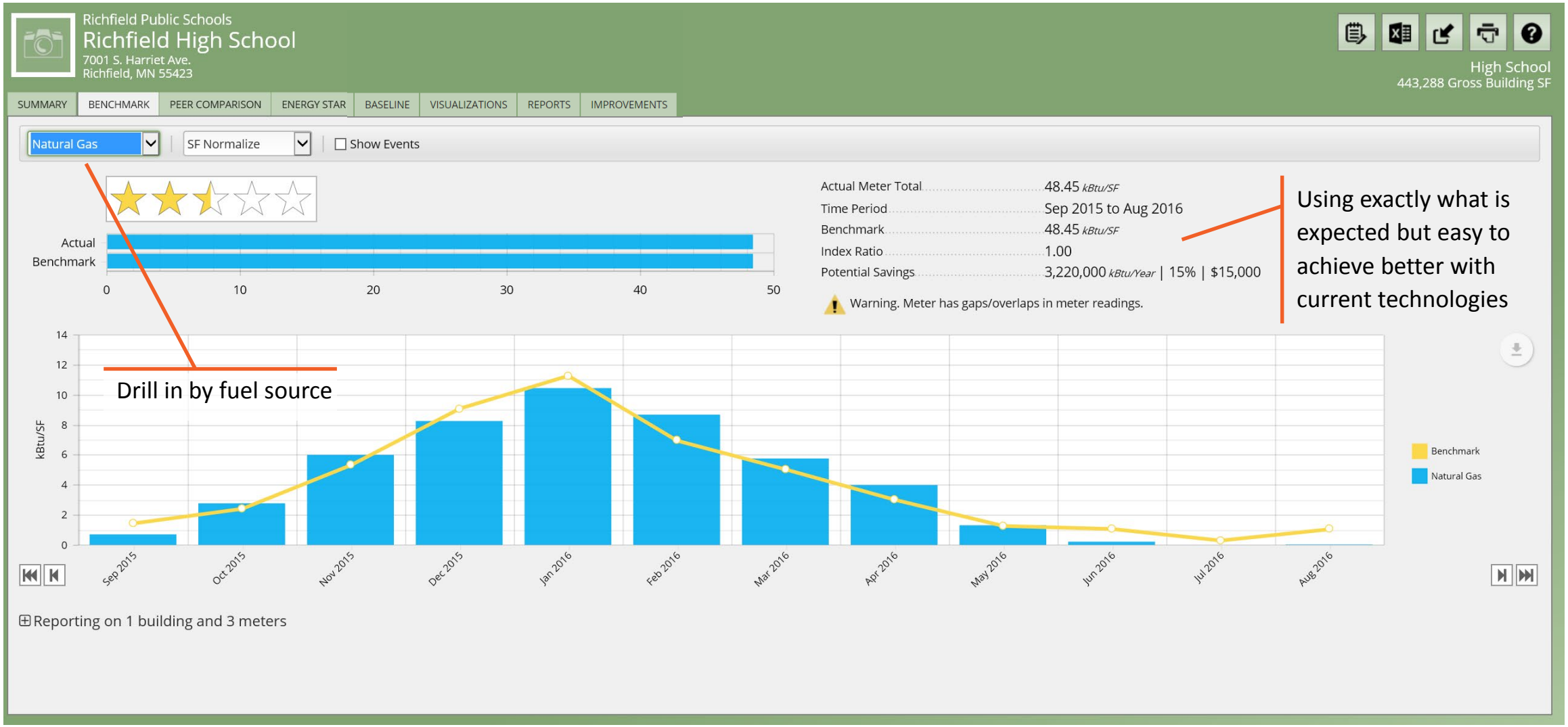
Site Summary



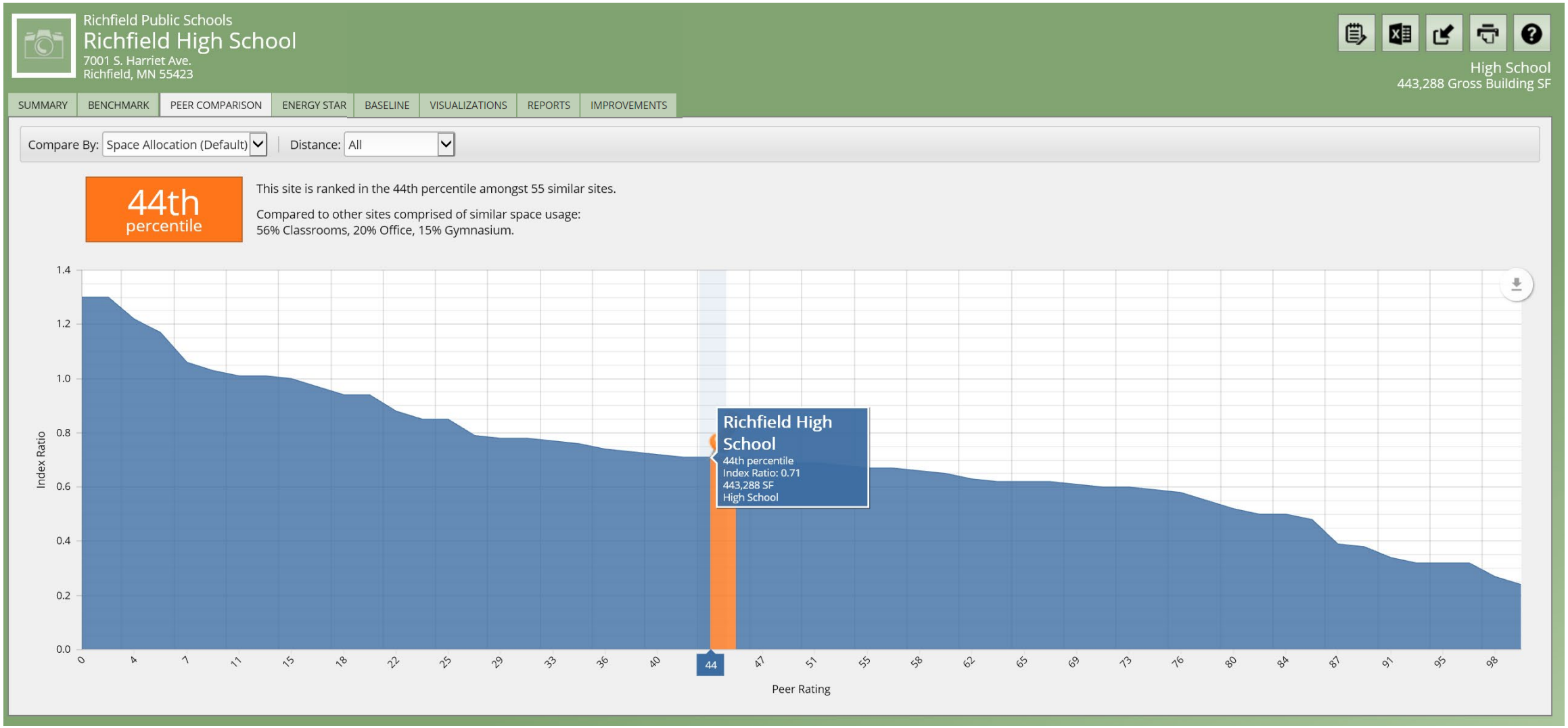
Site Benchmark



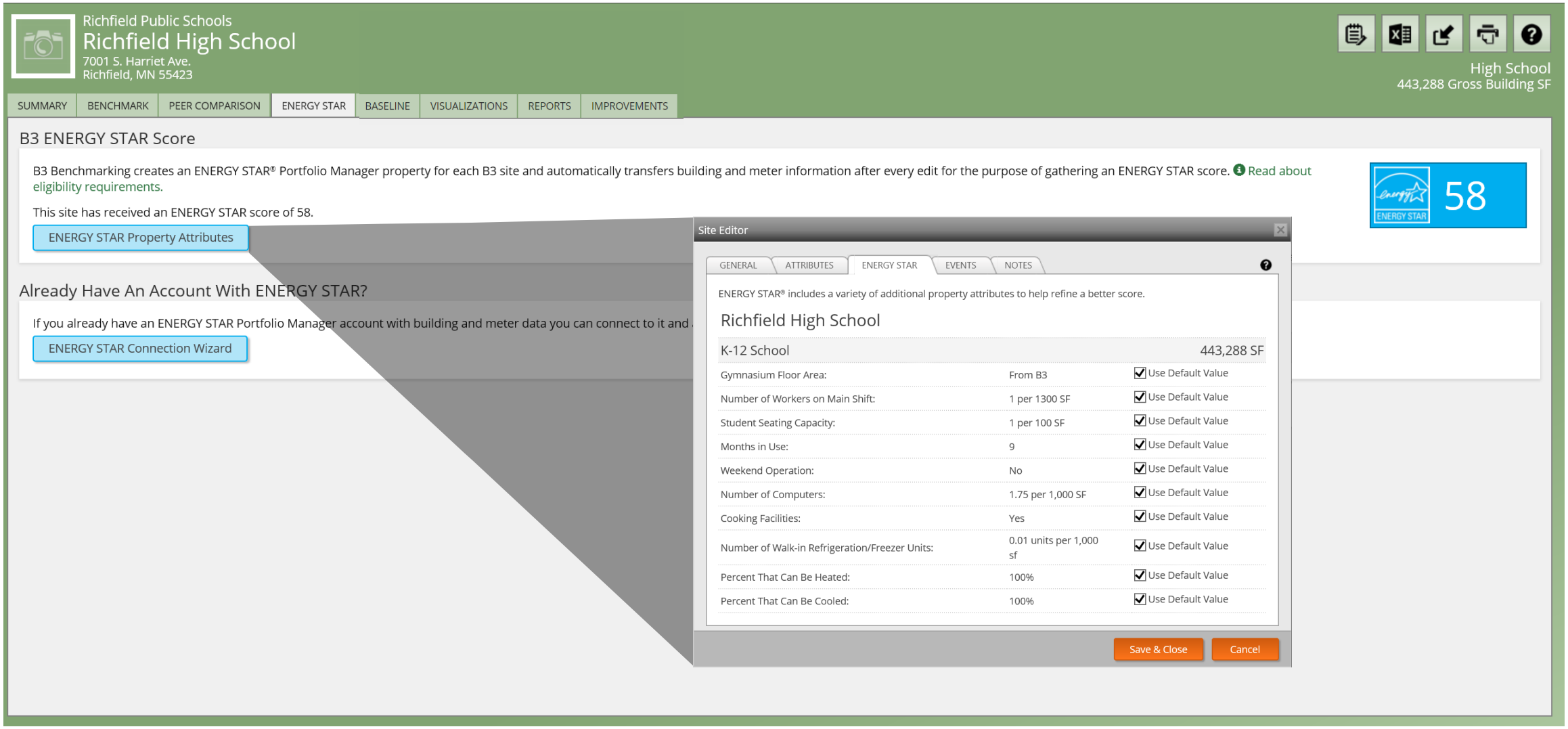
Site Benchmark



Site Peer Comparison

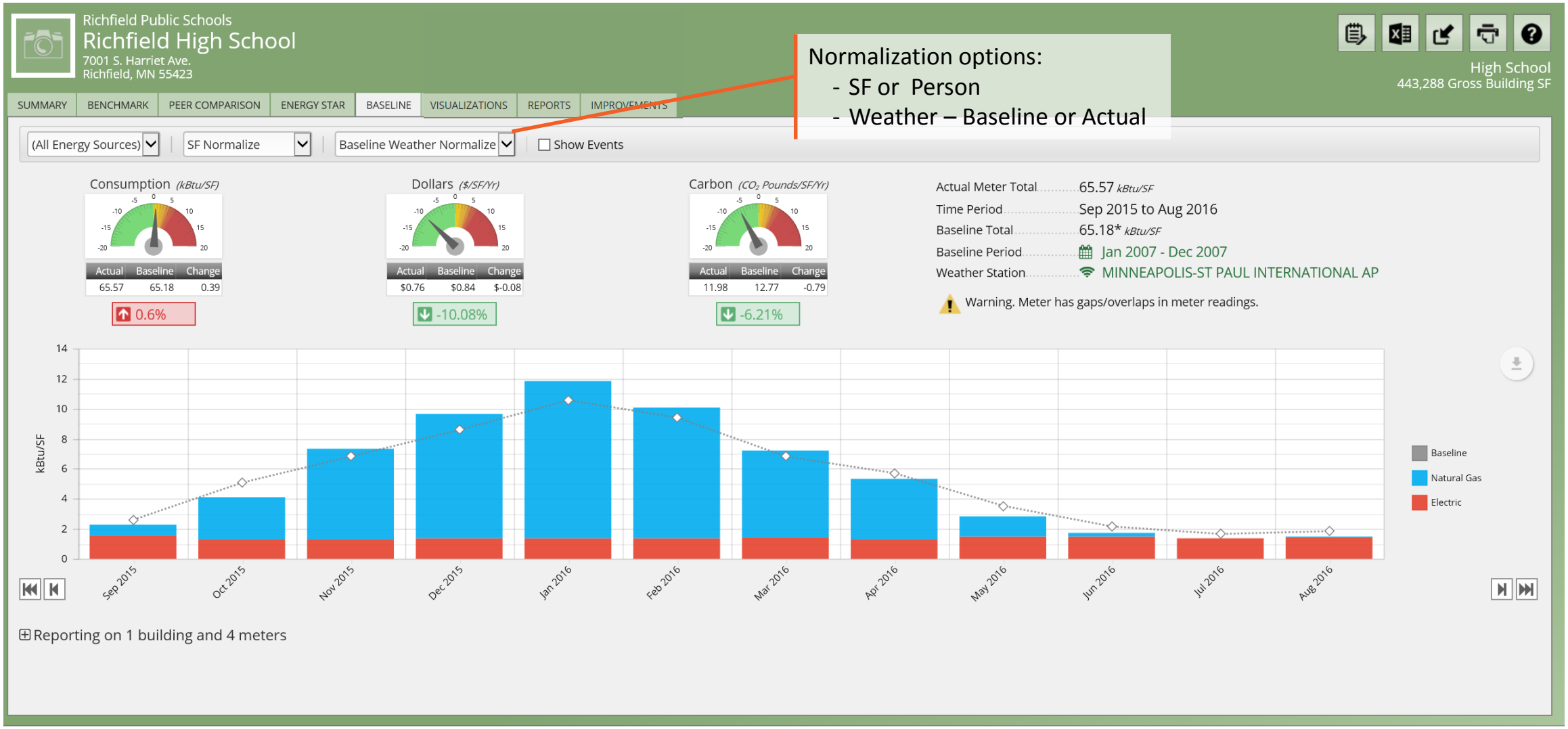


Site ENERGY STAR

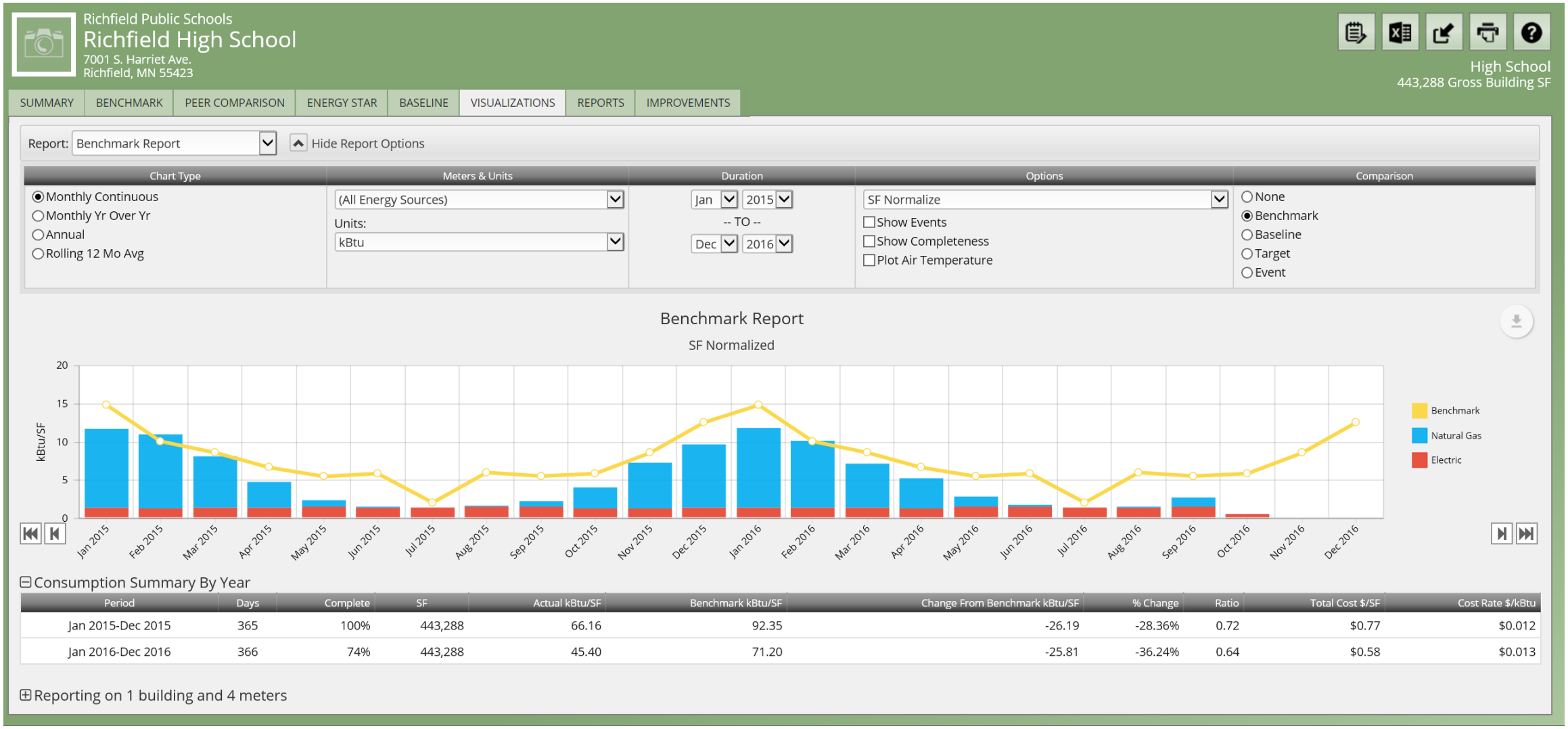


© 2017 The Weidt Group

Site Baseline



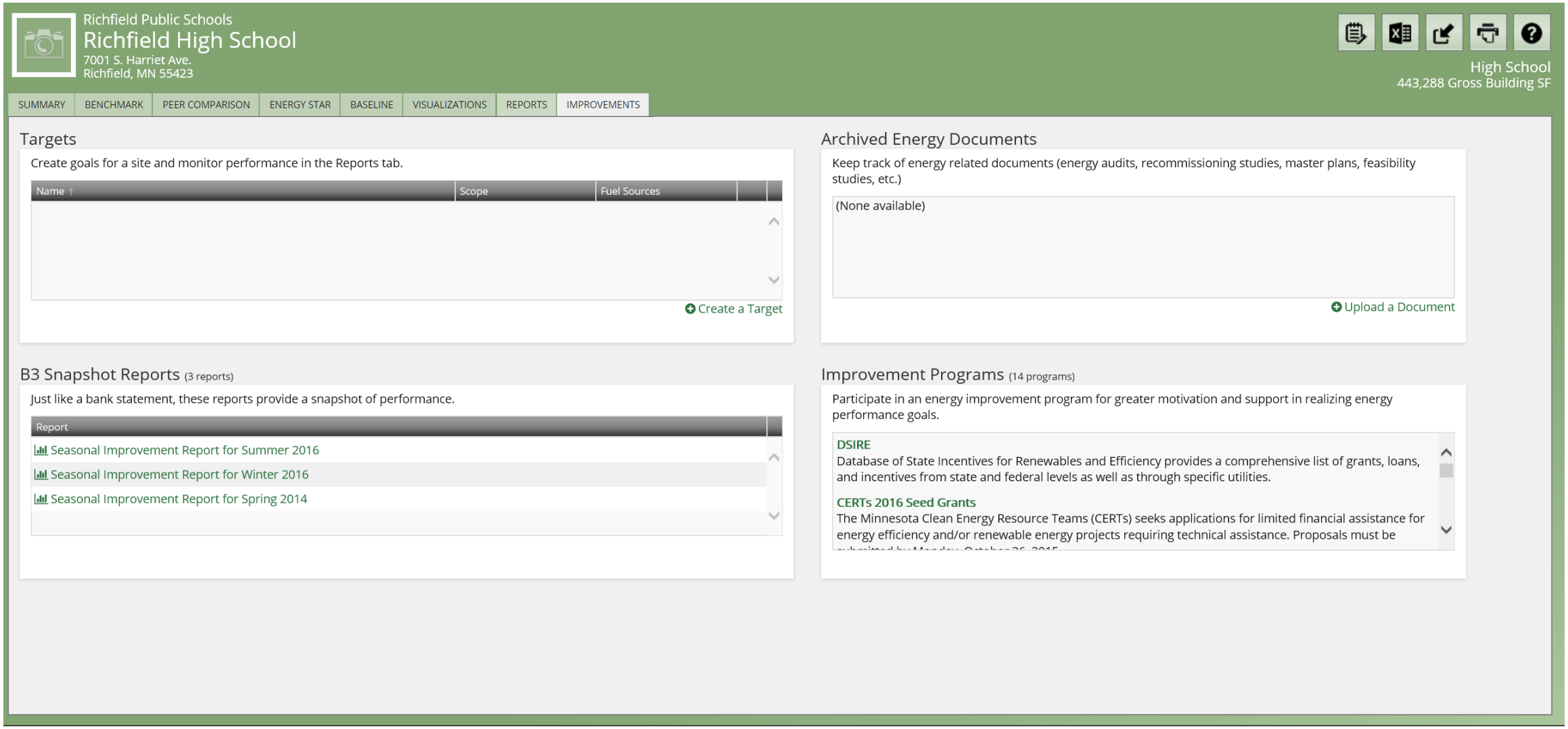
Site Visualizations



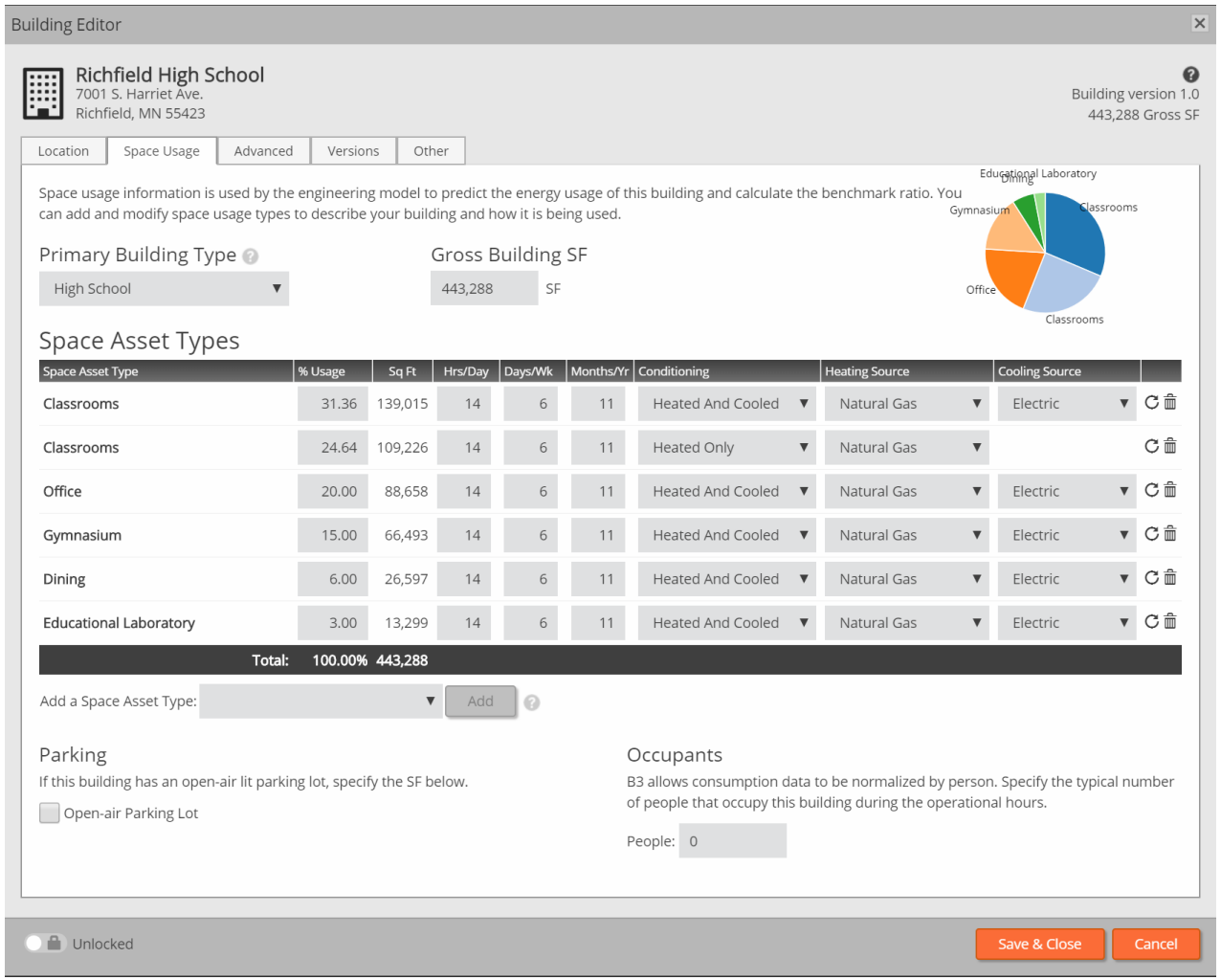
Period	Days	Complete	SF	Actual kBtu/SF	Benchmark kBtu/SF	Change From Benchmark kBtu/SF	% Change	Ratio	Total Cost $/SF	Cost Rate $/kBtu
Jan 2015-Dec 2015	365	100%	443,288	66.16	92.35	-26.19	-28.36%	0.72	$0.77	$0.012
Jan 2016-Dec 2016	366	74%	443,288	45.40	71.20	-25.81	-36.24%	0.64	$0.58	$0.013

Site Reports

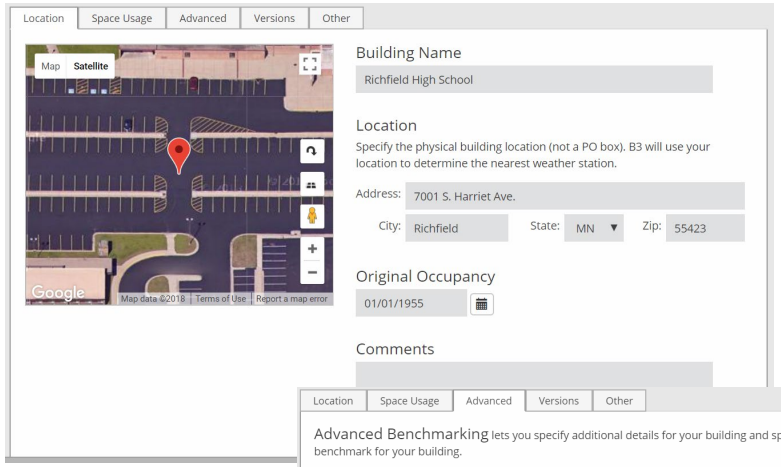
Site Improvements



Building Data

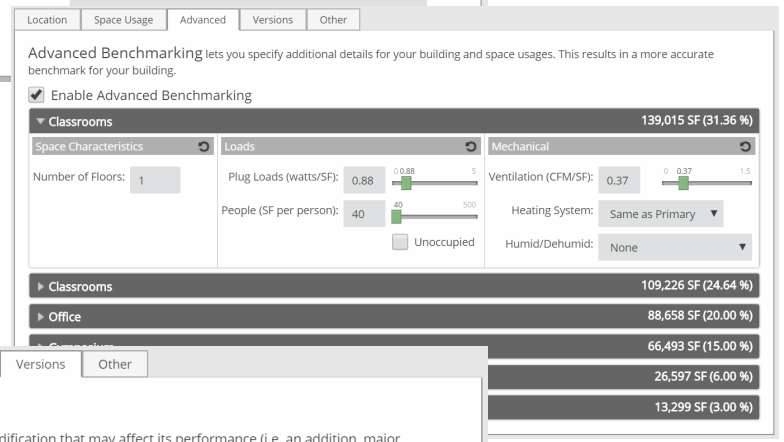


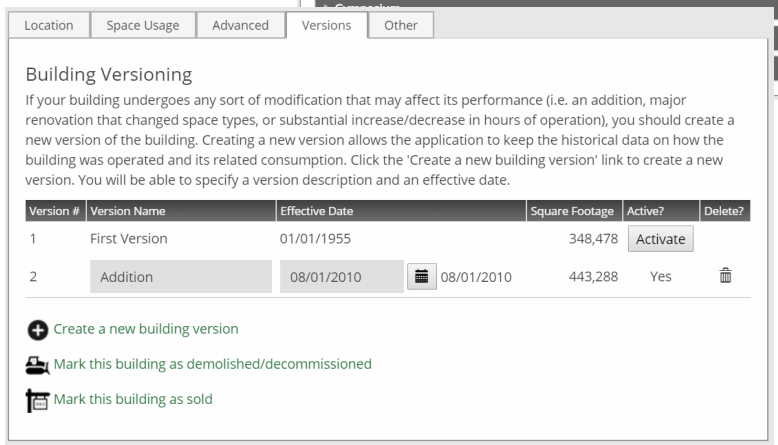
Space Usage tab holds the key building data



General information on the Location tab

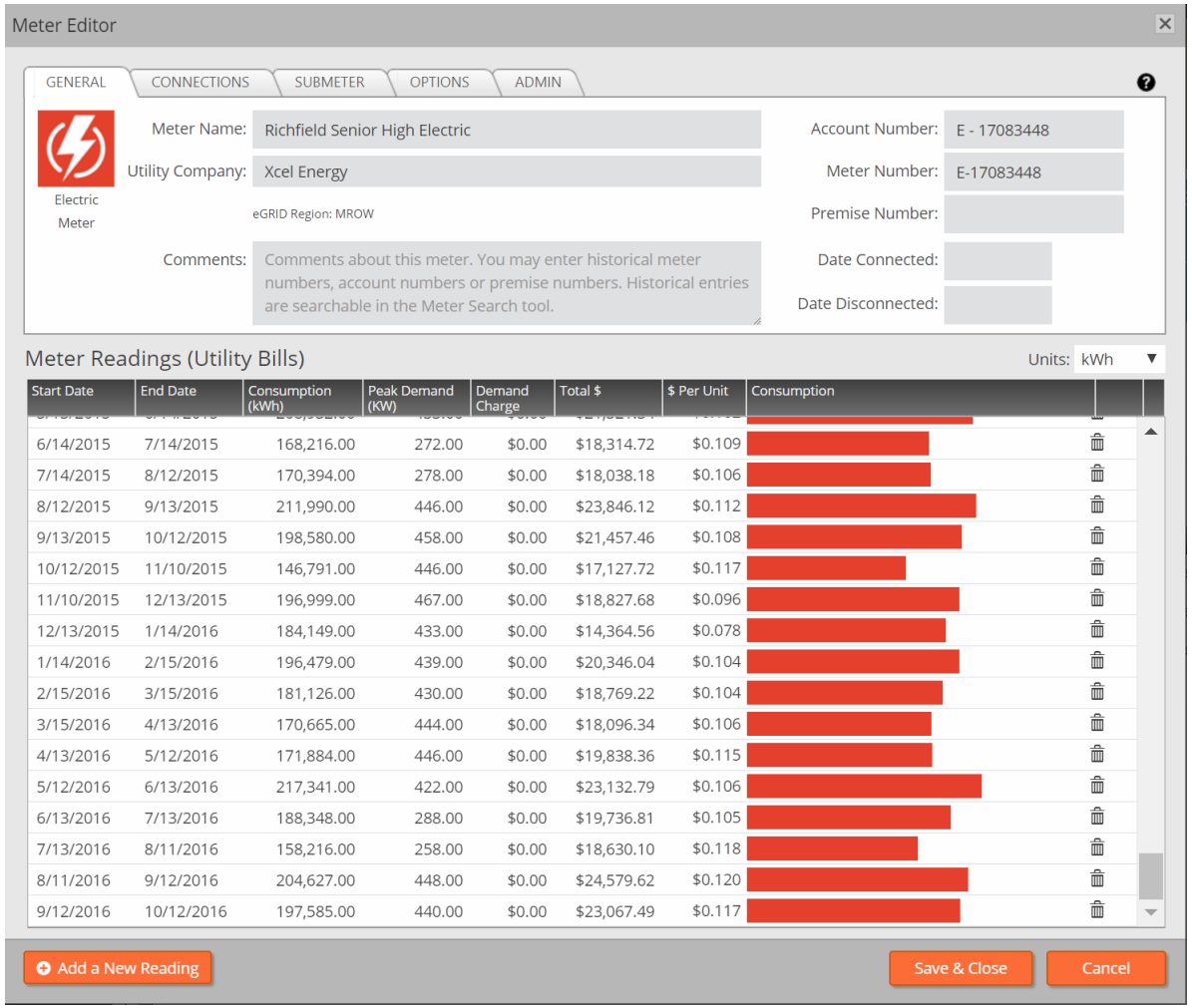
Dive deeper into the details on Advanced tab



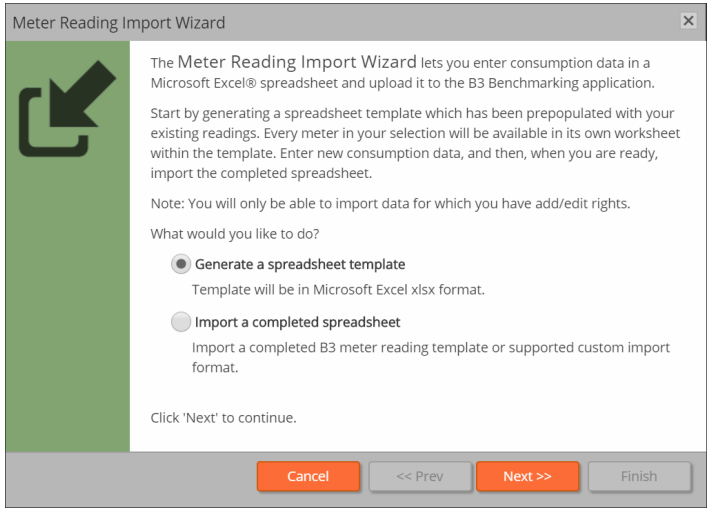


Version the building as operations/ size changes

Meter Data

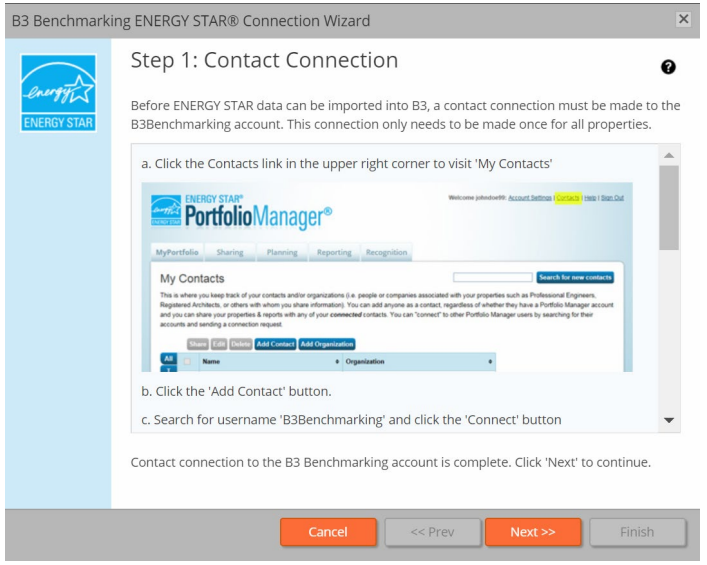


1. Manually enter readings via Meter Editor



2. Utilize Import Wizard to import readings – potentially copying/pasting from another source

3. Connect to ESPM for ongoing synchronization of consumption data from existing ESPM properties



© 2017 The Weidt Group

Thank You

THE WEIDT GROUP®

the energy practice of EYP Inc.

Cheri Schneider

https://mn.b3benchmarking.com

Support@B3Benchmarking.com

952.939.1878