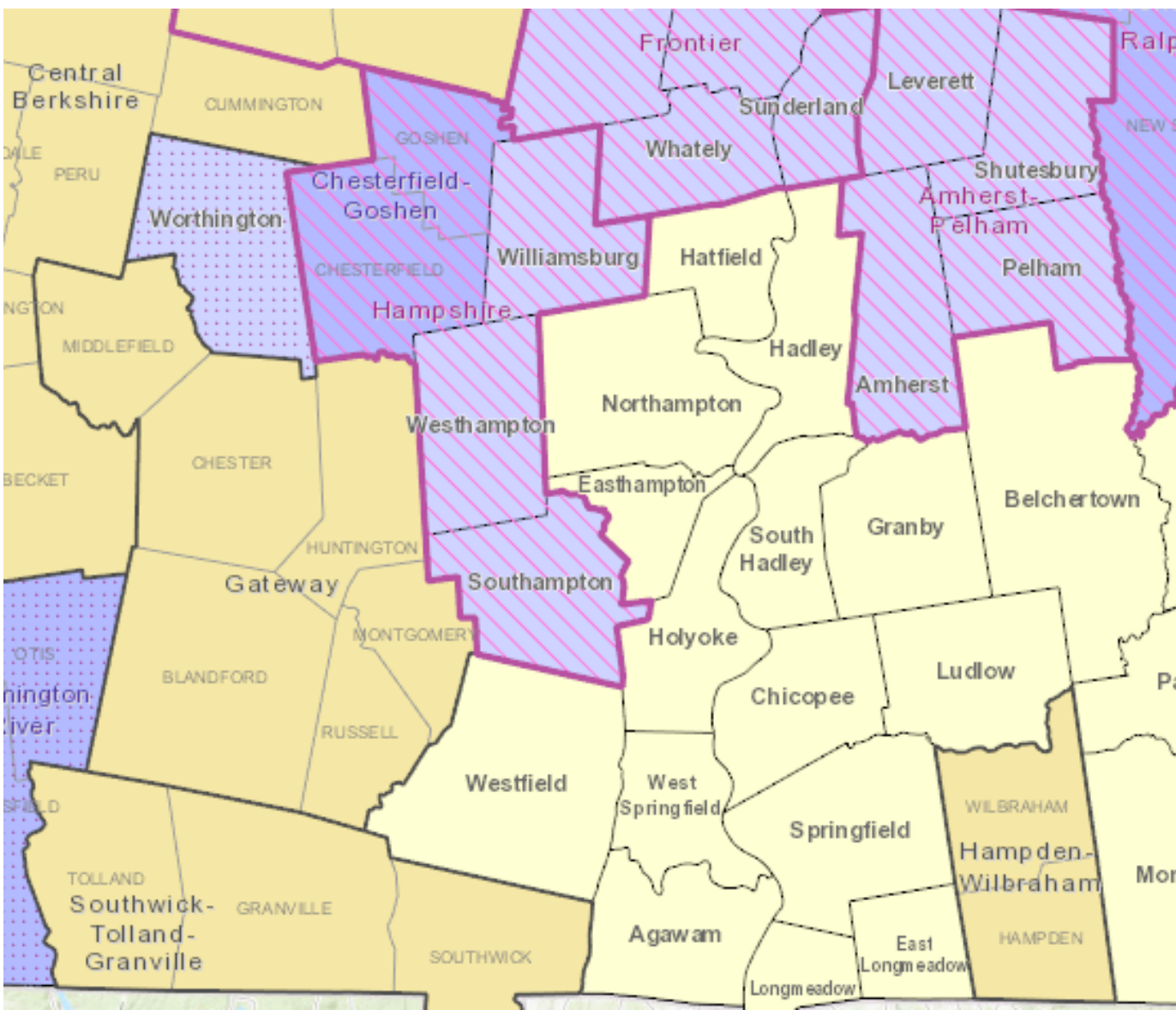


Project Overview & Objectives

Regional School Districts (RSDs) and SERPs

- **What is the project?**
Helping Green Communities in Regional School Districts add Regional School Buildings to their Energy Reduction Plans (ERPs)
- **Why is it important for sustainable energy?**
Allows towns to access more funding to achieve energy savings in shared buildings
- **What is the current state of the issue/project?**
Supplemental ERPs for the Gateway Regional, Hampden Wilbraham, and Hampshire Regional RSDs are planned or underway



Approach and Methods

- **Key techniques and procedures:**
Review historical data, work through DOER-issued SERP guidance
Calculate emissions & MMBtus/school building for baseline years, apportionment
- **Materials and instrumentation:**
Historical data from MassEnergy Insight (MEI) database, town or school district staff, town or school energy audits
- **Computational models or frameworks:**
MEI data, Excel

Workflow diagram:

01

02

03

04

05

Check Available Data
Dataset completeness

Identify What's Missing
and Potential Sources
Who might know/have information?

Draft SERP
Request feedback and develop further questions

Process in Excel & MEI
Percentages of BY MMBtus, etc.

Request or Calculate Information
Based on available/unavailable data (emissions, ECMs)

Deliverables and Findings

Key Findings:

- School energy use can add a significant amount to a town's baseline MMBtus
- Depends on apportionment by current tax Assessment percentages
- When SERPs are being completed after the original ERP's five-year period, completed ECMs should be described, but only planned ECMs count towards 20% reduction goal
- Energy Usage Intensity (EUI) across the combined municipal and school buildings clearly indicates opportunities for improving energy efficiency

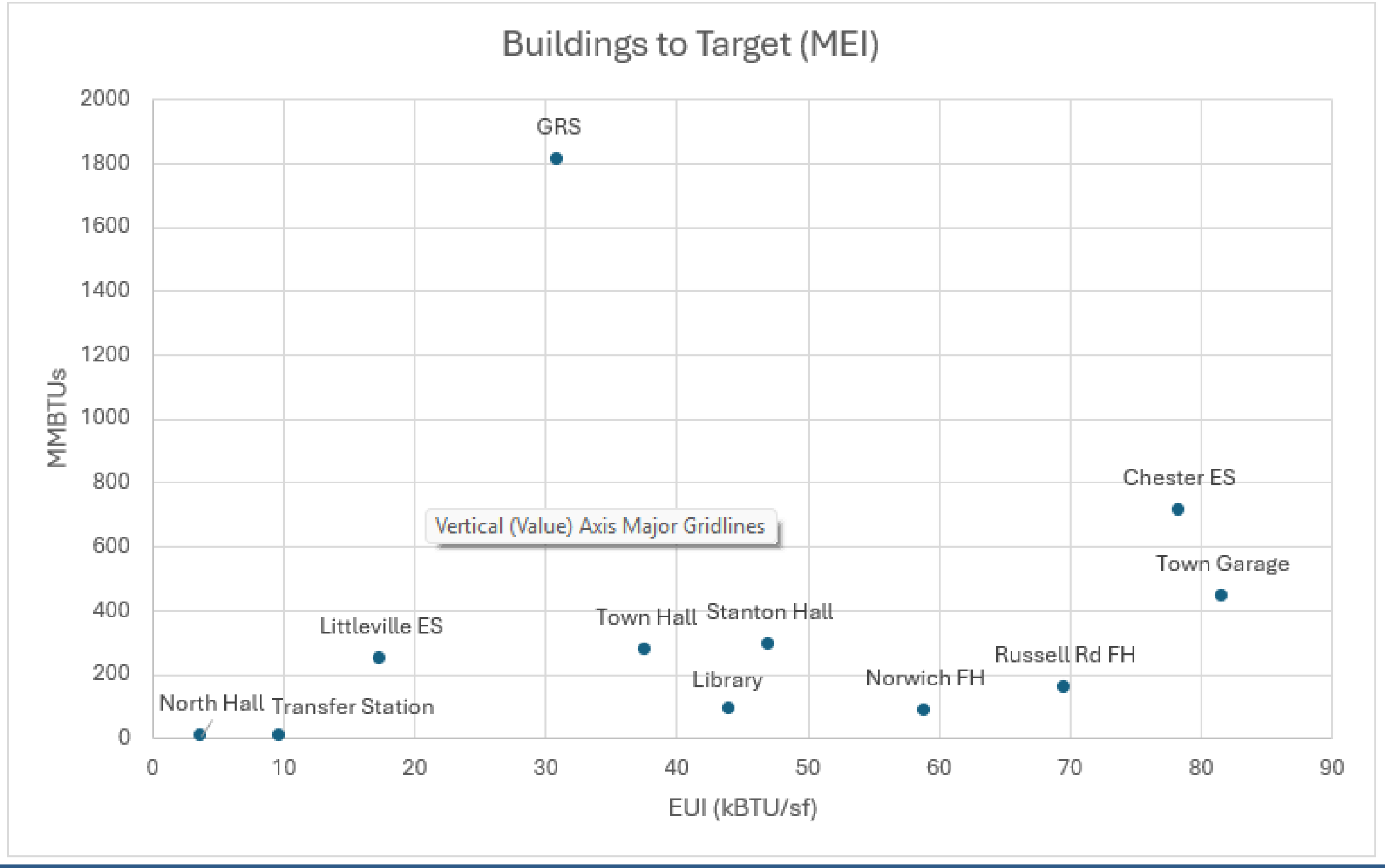
Deliverables:

- SERPs are in progress for the Gateway Regional and Hampden Wilbraham RSDs

Table of EUI ratings from MEI:

Building Name	EUI	MMBTU
Town Hall	37.68	277.65
North Hall	3.67	9.73
Library	44.02	89.32
Stanton Hall	47.09	291.22
Norwich FH	58.96	86.08
Russell Rd FH	69.62	155.94
Transfer Station	9.75	5.85
Town Garage	81.67	443.97
Littleville ES	17.44	248.15
GRS	30.98	1,808.78
Chester ES	78.32	714.95

Figure 3: Buildings to Target from MEI



Main Takeaways

Summarize main takeaways

- **Key takeaway 1:** Incomplete data and limited staff capacity present significant real world challenges to implementing policies
- **Key takeaway 2:** Working effectively across multiple organizations requires collaborative, responsive communication
- **Key takeaway 3:** Extended periods between initial ERPs and work on SERPs can add significant logistical challenges, but also reflect town's capacities and experiences

Impact: Why does this work matter for sustainable energy?
Incorporating Regional School buildings and associated accounts into Green Community's SERPs gives them access to additional grant funding to improve energy efficiency at the schools. These resources may be more than the towns can afford individually, especially if multiple towns in an RSD apply simultaneously.

The work I'm doing as a CELT Fellow to support these SERPs creates additional capacity to engage with a significant administrative task. Working through incomplete data sets and interpreting the SERP guidelines for the context of the RSDs as a whole helps support the SERPs across an RSD, rather than each individual town needing to work through this process.

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