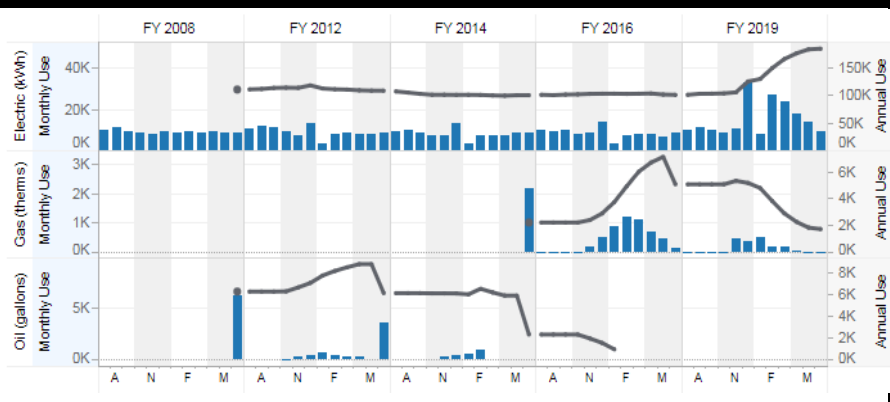




Building Dashboard

City Hall		14 Court Square				
Building Data						
Structural Details		HVAC		Condition	Appliances	Type/age
Year Built	1848; occupied as City Hall since 1964	Heating System	VRF heat pumps Gas-fired Steam as backup	EXCELLENT GOOD	Interior Lighting	all upgraded to LEDs 2018
Square footage	16,430	Heat Distribution	2018 - Heat pump units installed in offices and hallways	EXCELLENT	Exterior Lighting	LEDs in Parking Lot/Building exterior
Envelope	Brick Envelope, Vinyl covered wood frame roof, Vinyl Replaced 2012	Air Conditioning		EXCELLENT	Refrigerator	2016 - New Energy Star
Roof	Both Gable and Flat Roof Replaced in 2018	Ventilation	Passive	N/A	Vending Machine	None
Windows	Double Pane Installed - 2012	Hot Water Heater	2016 - Heat Pump Water Heater	EXCELLENT	Water Fountains	New in 2017
Insulation	Walls - None (solid brick) Attic - 12" Loose Fiberglass	Emergency Generator	150 kW Diesel	EXCELLENT		
Building Summary	2008 - Boiler replaced. 2012 - Windows and siding replaced. 2013 - Annex Removed. 2014 - Boiler burner changed from oil to gas. 2018 - Heating and cooling systems upgraded to VRF Heat Pumps. Challenges: Solid masonry construction does not allow for wall insulation					

Energy Profile - FY2019		
Energy Efficiency (BTU per Square Foot)		
Electric	Heat	Total
38,040	10,225	48,265
If Total is ≤ 40K Great!	40K-80K OK	>80K Needs Work
Annual Energy Cost		
Electric	Gas/Oil	Total
\$33,213	\$1,884	\$35,097
Berkshire Gas Rate Class	G41	
Electric Service Rate Class	G0	
Average Monthly Demand	45 kW	



Completed Work					
Fiscal Year	Project	Project Cost	Grants/Rebates	Life Expectancy	Warranty
2012	Window Replacement (ARRA Funding)	N/A	N/A	10-20 years	expired
2017	Heat Pump Hot Water Heater	\$1,037	\$173	10-12 years	10 year
2017	Water fountain Replacement	N/A	none	N/A	TBD
2017	Diesel Emergency Generator Installation (replacing smaller generator installed in 2016)	\$60,000	none	10,000 to 30,000 hours	TBD
2018	Roof replacement - shingles and membrane	\$85,000	none	30-40 years	30 yrs - membrane 40 yrs - architectural shingles
2019	Air-Source Heat Pumps Installation (Green Communities Grant)	\$138,525	\$96,845	20+ years	10 years - compressor & parts
2019	LED lighting upgrade - on bill financed	\$11,479	\$5,222	20+ years	5 year lights/ 2 years labor

Audits/Assessments		
Fiscal Year	Type	Findings
2009	Siemens Whole building assessment	Report available upon request
2014	Clearesult	Suggestions for improving insulation, ventilation, and steam traps
2016	CET Insulation Audit	Additional attic insulation unnecessary - would not be eligible for incentives