



Watertown Fire Department

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MEMO

TO: Finance Committee
FROM: Fire Chief Travis Teesch
DATE: July 10, 2023
RE: FIRE STATION UPDATE: Sustainability Features

The design and programming for the new fire station has identified a few key sustainability features that should be considered. These items come with an upfront cost but offer savings over the lifespan of the building.

Incorporating a geothermal heating and cooling system into a project of our scope has an initial estimated cost of an additional \$300,000 however, the average year savings is projected to be \$21,000 creating a potential savings of \$735,000 over a 50-year building life span.

The addition of a Photovoltaic (PV) system is another area where upfront costs would be higher, but a savings would be realized over the life of the building. The initial cost for PV is estimated to be \$364,000 with a savings of \$21,000 a year in energy costs. The current life of PV panels are 25 years.

Other sustainable features included LED lighting, high recycled material content, UV control, natural lighting, and an energy conscious designing. These features have minimal, if any, additional costs and are already included in the design of the station.

Choices on incorporating geothermal and photovoltaic systems need to be made at this stage in the project to provide the engineering and architectural teams guidance on system plans and designs.