FY 2023-2024 BUDGET QUESTION

Response to Request for Information

DEPARTMENT(S): Building Services

CBQ NO.: 135

REQUESTED BY: Alter (D5)

DATE REQUESTED: 07/26/2023

DATE POSTED: 08/10/2023

REQUEST: How much does Building Services spend annually on electricity? What would be the cost to install enough solar capacity on City Facilities to supply 5% of City facilities' total electricity consumption? Please provide an estimate of the time it would take to break even on this investment.

RESPONSE:

Building Services Department's (BSD) electricity usage represents roughly 5.5% of total City spend and 3.8% of total City usage:

BSD's annual electricity expenditure (FY22 actuals) =	$1,939,982
City of Austin's (CoA) total annual electricity expenditure (FY22 actuals) =	$35,579,616
BSD's electricity consumption (past 12 months) =	16,500,000 kWh
CoA's electricity consumption (past 12 months) =	430,000,000 kWh

Austin Energy performed an analysis to determine the cost needed to achieve a 5% solar load for BSD facilities only and for the entire City. This analysis contains various assumptions regarding annual solar consumption and installation costs. However, the figures below do not include potential incentives or rebates.

- For BSD only to achieve 5% solar consumption, solar infrastructure would need to be installed at 42 facilities at a total cost of $2,217,553. BSD would see a payback on investment in 16 years.

- For the entire City to achieve 5% solar consumption, solar infrastructure would need to be installed at 914 facilities at a total cost of $55,198,582 after incentives. The City would see a payback on investment in 14 years.

Austin Energy will be able to provide a more detailed analysis and explanation of various assumptions and incentives that can potentially impact cost and payback timeframe.