



# City of Sunnyvale

## Agenda Item-No Attachments (PDF)

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### 2020 COUNCIL STUDY ISSUE

#### **NUMBER**

DPW 20-XX

Fossil Fuel Infrastructure and Equipment

#### **BACKGROUND**

**Lead Department:**

Public Works

**Support Departments:**

Office of the City Manager

Office of the City Attorney

Environmental Services Department Community

Development Department

**Sponsor(s):**

Sustainability Commission

**History:**

1 year ago: N/A 2 years ago: N/A

#### **SCOPE OF THE STUDY**

##### **What precipitated this study?**

The Sustainability Commission believes that the City should review methods to support the Climate Action Playbook Strategies 2 & 3 for decarbonizing buildings & transportation. Furthermore, identifying ways to implement target in the Climate Action Playbook Strategies 2 & 3, also supports Council Policy 1.1.9 - Sustainable Development and Green Buildings, as well as, Council Policy 3.7.2 - Reduction of Carbon Dioxide Emissions from City Operations.

##### **What are the key elements of the study?**

The intent of the study is to ascertain what would be required to reduce the City's fossil fuel infrastructure and equipment to optimize energy efficiency, electrify buildings and equipment, increase zero-emissions City fleet, and decarbonize City buildings.

##### **Key Elements:**

- 1) Identify fossil fuel infrastructure within the city that under normal circumstances would need preventive maintenance, repair or replacement over the next 30 years (the span of the Climate Action Playbook targets). This could include but is not limited to underground gasoline fuel tanks (and associated equipment) for supplying gasoline fleet vehicles (police, fire, general), natural gas vehicle fleet capital equipment that uses natural gas (such as for heating buildings and water) at city facilities, and natural gas pipelines throughout the city.
- 2) A comprehensive look at electrifying all City-controlled vehicles will also require looking at contracts (such as recycling/garbage).
- 3) For each category, identify projected amount of money that would be needed to replace existing or needed to construct new non-fossil fuel infrastructure through 2050.

- 4) Develop a plan to phase out (or minimize) fossil fuel use in City operations and use associated savings to calculate costs of alternatives and Return on Investment. Use current funding to replace existing infrastructure with electric or renewable energy infrastructure in alignment with the Climate Action Playbook priorities.

**Estimated years to complete study:** 2 years

### **FISCAL IMPACT**

#### **Cost to Conduct Study**

Level of staff effort required (opportunity cost): Moderate

Funding Required for Non-Budgeted Costs: \$500,000

Funding Source: Will seek budget supplement

The cost is for consultant services that are necessary to complete the study. The consultant team will require different levels of expertise including engineering, environmental, and transportation.

#### **Cost to Implement Study Results**

Unknown. Study would include assessment of potential costs, including capital and operating, as well as revenue/savings.

### **EXPECTED CITY COUNCIL, BOARD OR COMMISSION PARTICIPATION**

Council-Approved Work Plan: No

Council Study Session: No

Reviewed by Boards/Commissions: Sustainability Commission

### **STAFF RECOMMENDATION**

A staff recommendation will be completed at the time of submittal of this Study Issue Paper to the Office of the City Manager.