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August 4, 2020

### DECISION MEMORANDUM

**TO:** Council Members

**FROM:** Massoud Jourabchi  
Manager, Economic Analysis

**SUBJECT:** Amendment to Systematic Solutions Inc. Contract C2020-25

**PROPOSED ACTION:** Authorization for staff to execute an amendment to Contract C2020-25 with Systematic Solutions, Inc. (SSI) to add \$16,000 to the budget for a total amended contract budget not to exceed \$120,016. This amendment is requested for the continued support and enhancement of the Energy2020 model for use in the development of the 2021 Power Plan.

**SIGNIFICANCE:** SSI's Energy2020 model is the primary analytical tool the Council uses for load forecasting. In development of the 2021 Power Plan, staff has determined a need for additional support from SSI for the Energy2020 model related to the scenario development, and, specifically work related to the pathways to decarbonization scenario.

### BUDGETARY/ECONOMIC IMPACTS:

Authorization to amend this contract will result in adding \$16,000 to the budget for a total amended contract budget not-to-exceed \$120,016.

### BACKGROUND AND ANALYSIS

The Council entered into Contract C2020-25 with SSI in September 2019 to assist staff in maintaining, updating and enhancing the Energy2020 model in FY2020. In January 2020, the Council amended C2020-25 to add additional tasks to support the scenario analysis and testing of scenarios for the Council's 2021 Power Plan, including specific

tasks to support the Greenhouse Gas Cost Tipping Point Scenario and the Pathways to Decarbonization Scenario.

In conducting the pathways to decarbonization scenario task work, more model runs were required than anticipated, numerous code changes were necessary and fuel switching strategies and renewable natural gas considerations had to be incorporated; therefore, a significantly higher portion of the budget than anticipated was spent on this task and other tasks remain to be completed.

Staff recommends amending the existing contract budget to add \$16,000, which staff believes will be sufficient to accomplish the remaining tasks.

### **ALTERNATIVES**

The alternative is to have Council staff perform the remaining work. However, this may cause a delay in the development and testing of the scenarios, and it is still possible, that even if Council staff were to perform the bulk of the remaining work, the need may still arise for expert assistance with the Energy2020 model.