INFORMATION REPORT

TO: DESALINATION TASK FORCE

FROM: PROGRAM MANAGERS

SUBJECT: ENERGY STUDY STATUS REPORT

DATE: JANUARY 18, 2012

This information report serves as the eighth status report and will update the Task Force on work progress with regard to the Energy Minimization and Greenhouse Gas Reduction Plan (Energy Study). Energy Study work remains on schedule and generally follows the timeline below:

Item	Participants	Estimated Date
Discuss Community Informational Meeting including noteworthy comments, recommendations and considerations.	TF, Staff	January TF meeting
Review detailed outline for the draft Energy Study	TF, Staff	January TF meeting
Prepare draft Energy Study	Staff, Kennedy/Jenks (K/J)	December - February
Energy Technical Working Group (ETWG) to review of draft Energy Study	Staff, K/J, ETWG	February
Present draft Energy Study to **scwd**^{2} Task Force	TF, Staff, K/J	March TF meeting

Community Informational Meeting

Staff and members of Kennedy/Jenks Consultants presented information about the Energy Study to the community on the evening of December 8, 2011 at the Live Oak Elementary School. The meeting was attended by approximately 40 individuals. The audience posed several interesting questions including the following:

1. Do the greenhouse gas (GHG) emission calculations include construction, operation and maintenance of the Project?
2. Clarify the effect of desalination as a supplemental supply to total household energy use.
3. If not all of the GHG mitigation will happen as a result of projects and energy efficiency within the Facility footprint, what projects within the city and boundaries are being considered?

4. How does the Project fit into the goals established in the City's Climate Action Program?
5. How much do the GHG reduction projects and programs cost?
6. How do we use the PG&E emission factor in our GHG emission calculations? How much can we expect it to decrease over time?
7. Are the agencies required to implement these projects under direction from AB32 regardless of desalination?
8. Can the food waste to energy project be considered additional?
9. Water conservation reduces energy and carbon footprint. Can improving water efficiency be considered an actual mitigation?
10. How does mitigation affect ongoing cost of project?
11. What percent of desalination energy can be met with alternative renewable sources?

Responses to these questions can be found on the project website. Staff intends to incorporate audience feedback and considerations into the Energy Study where appropriate.

Final Report Outline
The Final Report for the Energy Study will generally follow the outline and content structure described below.

A) Executive Summary

B) Introduction

Provide overview of project including purpose and goals of the Energy Study; provide an overview of relevant regulations; describe the roles of the Energy Study Technical Working Group (ETWG), the Task Force and the public in the development of the study; and, describe approaches to reducing GHGs associated with the project.

C) Identification of energy needs and GHG emissions related to the Project

Describe the anticipated energy required for the Project and the resulting direct and indirect GHG emissions. This section will include a discussion of historical and future PG&E emission factors.

D) Level of reduction required to meet applicable GHG reduction goals

Provide a detailed discussion of various goals that the agencies could strive to achieve including AB32, a project that is no net increase, consistency with the City's Climate Action Plan, a project that is carbon free.

E) Methodology for selecting GHG reduction projects and programs

Describe the projects and programs that could be implemented to reach the various goals.

F) Recommended projects and programs.

Provide a discussion on most feasible projects and programs. This will include projects located at the desalination facility such as the use of energy recovery devices and variable frequency drive pumps as well off-site projects such as the food waste to energy project at the City's Wastewater Treatment Facility.

G) Project portfolio assembly approach and implementation timeline

This section will include example GHG reduction portfolios of various projects and programs that could be implemented to achieve the goals

H) Adaptation and Contingency Plan

This section will describe how the plan would be implemented and maintained including the annual "true up" process, incorporation of new projects/programs (modification to the portfolios), and new regulatory requirements.

Next Steps and Future Considerations

As mentioned in the project schedule, the ETWG will review and comment on the draft Energy Minimization and Greenhouse Gas Reduction Plan in February. ETWG comments will be incorporated into the document and the draft will be presented to the Task Force for review and feedback in March. The Energy Study will be used to help inform the EIR to the extent applicable.