

MONTHLY PROGRESS REPORT FOR CONTRACT NO. 500-00-036:

PROJECT 1.1 – PROGRAM PLANNING AND ANALYSIS

REPORT PREPARED BY: COMMONWEALTH ENERGY TEAM

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What we planned to accomplish this period:

The team began collecting available facility data in the Public sector and the Commercial-Industrial sectors for the Task 1.1.5 BI-PV database that will assist in determining the PV resource potential within the mini-grid. Work continued on populating the database for the sewage treatment plants and landfill facilities. The team anticipated initiating agricultural database activities. Additionally, we planned to start developing information for the associated Task 1.1.3 and 1.1.4 inventory reports.

What we actually accomplished this period:

Task 1.1.1 – Review Previous Statewide/Southern CA Renewable Resource Technical & Market Potential Assessments and Transmission/Distribution Mini-Grid Definition:

- RER finished researching and reviewing existing renewable resource assessment reports for California, focusing on the Program's biogas and PV resources and developed a draft report. The preliminary definition of the mini-grid area was expanded for potential bioreactor landfill and enhanced anaerobic digestion projects at wastewater treatment plants recognizing that the number of sites suitable for these potential projects is limited. The preliminary study map was prepared in a GIS format. This initial description and preliminary mini-grid map were sent to the Commission Project Manager for review on July 31, 2002.

Task 1.1.3- Serve as Host for Bioreactor Demonstration Project:

- The Team continued the biogas data collection activities into July. Existing databases as well as information from individual facilities was collected. Both

quantified facility data to be entered into an Excel database, as well as various data layers to be entered into the project GIS data, were collected by the Team.

Task 1.1.6- Collect Information on Transmission/Distribution System:

- It was determined at the kick-off meeting that Southern California Edison (SCE) should be brought into the Program as soon as it becomes practical. Preliminary discussions regarding our Program's key objectives were held with SCE and a meeting was arranged on July 16 with representatives at SCE to discuss Project 1.1's transmission and distribution (T & D) data gathering needs for the preliminary Chino Basin study area and the final mini-grid area. Following these discussions, SCE agreed to cooperate with the Commonwealth Team and tentatively to participate as a member of the Project 1.1 Technical Advisory Committee.

How we are doing compared to our plan:

The Commonwealth Team's Project 1.1 task activity has progressed according to our work plan through this reporting period.

Significant problems or changes:

No significant problems or changes were encountered during this reporting period. Current project progress and expenditures will result in project being completed on time and within budget, however, the Renewable Resources Potential Summary Report will require additional time to complete, due to the volume and nature of the potentially applicable reports that were identified during the literature search.

In addition, it is expected to take some further time to finalize the mini-grid's geographic boundaries due to the need for some initial definitive T & D data acquisition (i.e., area-wide substation locations/voltage classes/no. of circuits) in order to understand the Team's practical resource limitations with respect to the T & D system power flow modeling efforts. In the interim period, the Project Team will move forward working with the preliminary mini-grid definition, until such time as the final boundary is determined for resource assessment and power flow modeling purposes.

What we expect to accomplish during the next period:

The Project Team expects to have the Task 1.1.1 Assessment Review Draft Report completed and delivered to the Commission Program manager. Other Project 1.1 activity planned for next month includes refining the preliminary study area geographic boundary to

better reflect the resource potential in the area and the location of various substations and key distribution feeders that will help the Team define the Program’s mini-grid.

The Team plans to complete the database development and populate it for sewage treatment plants and landfill facilities, which may serve as host for the bioreactor project. We also plan to start developing information for the associated Task 1.1.3 and 1.1.4 inventory reports. The Team also plans to initiate the Task 1.1.2 data collection and database development work on the agricultural facilities database. Finally, we also plan to begin our preliminary work on the Agricultural Waste Inventory Report.

Status of Milestones and Deliverables:

Table 1 below summarizes the status of Project 1.1 task deliverables as of the end of the current reporting period.

Table 1: Summary of Project Status and Deliverables

Task No.	Description	Start Date		Due Date		Status (%)
		Planned	Actual	Planned	Actual	
1.1.1	Review previous CA technical and market potential assessments.	6/5/02	6/5/02	8/4/02		80%
1.1.1	“Preliminary definition” of Program mini-grid region	6/5/02	6/5/02	8/4/02	7/31/02	90%
1.1.2a	Develop DB of Agricultural Facilities.	6/19/02	6/19/02	9/18/02		15%
1.1.2b	Develop Ag GIS report.	6/19/02		10/18/02		10%
1.1.3a	Develop Landfill DB.	6/19/02	6/19/02	8/19/02		30%
1.1.4a	Develop WWT facility DB.	6/19/02	6/19/02	8/19/02		10%
1.1.6	Develop T&D System DB	6/5/02	6/26/02	9/19/02		5%
1.1.13	Develop M & E Plans	06/05/02	07/15/03	06/07/03		1%

Figure 1 below presents the Overall Schedule for Project 1.1 through July 2002.

Figure 1: Overall Schedule for Project 1.1



Overview of Fiscal status:

Table 2 below summarizes the fiscal status of Project 1.1 by task as of the end of the current reporting period.

Table 2: Fiscal Status By Task

Task Number	Budget	Invoiced To-Date	Fiscal Status *
1.1.1	\$18,902.00	\$0	OB
1.1.2 a	\$85,562.00	\$0	OT
1.1.2 b	\$85,562.00	\$0	OT
1.1.3 a	\$66,865.00	\$0	OT
1.1.3 b	\$66,865.00	\$0	OT
1.1.4 a	\$93,136.00	\$0	OT
1.1.4 b	\$93,136.00	\$0	OT
1.1.13 a	\$35,251	\$0	OT

*Fiscal Status – Please indicate if you are “On Track” (OT), OverBudget (OB), or UnderBudget (UB)

Project 1.1.1 Overbudget Explanation: More effort was expended than was budgeted on Task 1.1.1 attempting to identify prior studies and reports on technical and market potential

in California. The limited number of reports that were found is believed to be all that are available after an exhaustive search. It was deemed necessary to expend the time to ensure that all available resources were identified. In addition, the definition of the mini-grid was added to this task without additional budget resources for this task.