

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

PROJECT 3.3 – BUILDING-INTEGRATED PV ON PUBLIC FACILITIES

REPORT PREPARED BY: COMMONWEALTH ENERGY TEAM

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**What we planned to accomplish this period:**

**Task 3.3.2:** Continue to prepare the draft Public Facilities BI-PV Test Plan, and the Project Development Guidelines. Continue to collect information regarding economic benefits of BI-PV applications and work these economic benefits into the software tools development effort. Complete the Draft BI-PV energy audit guidelines.

**Task 3.3.4a:** Continue making new contacts and following-up on prior contacts made through Program activities and developing new leads. Speak with Montclair / Ontario School District regarding BI-PV applications for their facilities. Contact all public agency facilities within the Program's final mini-grid region to qualify them as potential candidates for BI-PV applications. Implement site visits as warranted.

**What we actually accomplished this period:**

Task 3.3.2: Developing Evaluation Tools

- Draft BI-PV on Public Facilities Project Test Plan continues to develop,
- Materials from SCE obtained for incorporation into conservation potential and site audits,
- E-Quest software training scheduled for December to incorporate current Title 24 and *Savings by Design* components into the software tools package, and
- Modules on BI-PV costs and benefits (as adders) to existing economic/financial analysis tools are being developed.

Task 3.3.4a: Select Demonstration Project Sites

- Follow up contacts made with potential BIPV Public Sector host site Clients and continued to make new contacts,

- Site visits resulted in several potential project sites being identified, and
- Host site Clients identified to date include: Inland Empire Utilities Agency (several sites), California Institute for Women, Riverside Community College in Norco, Ontario / Montclair School District (several new school projects), Chino Airport, Planes of Fame Museum, US Naval Weapons Center.

**How we are doing compared to our plan:**

**Task 3.3.2 – Developing Evaluation Tools:** The project team is on track with the proposed task plan. All of the deliverables for this task have been initiated and are proceeding smoothly. The Draft BI-PV Public Facilities Test Plan should be submitted in December. More time will be needed for the BI-PV Evaluation Tools Package.

**Task 3.3.4a- Select Demonstration Project Sites:** The project team is currently on track with the task plan. Minigrid Target Area was previously refined and continued follow-up is taking place on prior contacts made and REDI is developing public agency leads. Site visits were made to view public sector facilities and gather site characteristics and load data.

**Significant problems or changes:**

*Approval Requests for Significant Changes:*

- Additional time will be needed for the BI-PV Evaluation Tools Package, therefore, REDI requests a one-month extension. As of this date, it is expected that the Draft BI-PV Public Facilities Test Plan will be submitted in December. The timing of the final deliverable will be dependent upon input from RER as well as Commission staff comments and revisions as requested..

With the exception of the above extension request, current progress and expenditures will result in project being completed on time and within budget. Individual task delays currently will not significantly impact the overall project schedule.

**What we expect to accomplish during the next period:**

- **Task 3.3.2 – Developing Evaluation Tools:** Complete Draft BI-PV on Public Facilities Test Plan for submittal to CEC staff for review and comments in December. Continue to collect information regarding economic benefits of BI-PV and work these additional analysis factors into the software tools development. Complete the draft BI-PV energy audit guidelines. Draft BI-PV Evaluation Tools Package is expected to be completed in January 2003.
- **Task 3.3.4a – Select Demonstration Project Sites:** Continue making new contacts, following-up on prior initial contacts and developing new leads. Send informational materials to Montclair / Ontario School District regarding BI-PV

applications for their facilities. Contact all interested public agency facilities within the Commonwealth Renewables Mini-Grid local area to qualify them as potential candidates for BI-PV applications. Develop initial project specifications based upon qualified sites that have been identified through REDI’s site selection efforts.

**Status of Milestones and Deliverables:**

Table 1 below summarizes the status of Project 3.3 task deliverables as of the end of the current reporting period.

**Table 1: Summary of Project Status and Deliverables – Project 3.3**

Task No.	Description	Task Start Date		Task Due Date		Status (%)
		Planned	Actual	Planned	Actual	
3.3.1.a	Compile Database of Public Sector Clients	6/20/2002	6/20/2002	7/20/2002	11/12/02	100%
3.3.1.b	Compile Database of BI-PV Equipment Vendors and Service Provider	6/20/2002	6/20/2002	7/20/2002	11/12/02	100%
3.3.2	Develop Evaluation Tools	8/19/2002	8/19/2002	12/19/2002		75%
3.3.4a	Select Demonstration Project Sites	1/03/2003	7/25/2002	3/04/2003		45%
3.3.6	Coordinate with RPAC	06/20/02		03/31/05		

Explanation of any Difference(s) in Schedule

The following listing provides the explanation for the reported changes in the schedule at the project task/deliverable level.

- Task # 3.3.2 – Draft BI-PV Public Facilities Test Plan is on track but BI-PV Evaluation Tools Package will need an additional month added to the schedule.

**Overall Schedule for Project 3.3:**

Task Name	Duration	Start Date	End Date	Cost	2003				2004					
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
<b>Project 3.3 - Building Integrated PV on Public Facilit</b>	<b>726 day:</b>	<b>Thu 6/20/0</b>	<b>Thu 3/31/0</b>	<b>\$0.00</b>										
Task 3.3.1.a - Compile Database of Public Sector Cli	45 day:	Thu 6/20/0	Wed 8/21/0	\$5,000.0										
Task 3.3.1.b - Compile Database of BI-PV Equipment	45 day:	Thu 6/20/0	Wed 8/21/0	\$5,000.0										
Task 3.3.2 - Develop Evaluation Tools	88 day:	Mon 8/19/0	Thu 12/19/0	\$40,000.0										
Task 3.3.3 - Establish BI-PV Public Sector Loan Prog	45 day:	Mon 8/19/0	Fri 10/18/0	\$0.00										
Task 3.3.4.a - Select Demonstration Project Sites	42 day:	Mon 8/12/0	Tue 3/4/0	\$47,000.0										
<b>Critical Project Review Meeting</b>	15 day:	Mon 2/17/0	Fri 3/7/0	\$15,000.0										
<b>Task 3.3.4.b - Finance and Construct BI-PV Syst</b>	<b>168.5 day</b>	<b>Mon 3/10/0</b>	<b>Thu 10/30/0</b>	<b>\$510,605.0</b>										
Task 3.3.4.b.1(1) - System No. 1: Design/ financi	65 day:	Mon 3/10/0	Fri 6/6/0	\$76,591.0										
Task 3.3.4.b.1(2) - System No. 1: Design/ financi	1 day:	Mon 3/10/0	Mon 3/10/0	\$0.00										
Task 3.3.4.b.1(3) - System No. 1: System Installa	86 day:	Thu 4/3/0	Fri 8/1/0	\$51,061.0										
Task 3.3.4.b.2(1) - System No. 2:Design/ financir	65 day:	Mon 3/10/0	Fri 6/6/0	\$76,591.0										
Task 3.3.4.b.2(2) - System No. 2: System Installa	86 day:	Thu 4/3/0	Fri 8/1/0	\$51,060.0										
Task 3.3.4.b.3(3) - System No. 3: Design/ financi	64 day:	Mon 5/5/0	Fri 8/1/0	\$76,591.0										
Task 3.3.4.b.3 - System No. 3: System Installation	86 day:	Wed 7/2/0	Thu 10/30/0	\$51,060.0										
Task 3.3.4.b.4(1) - System No. 4: Design/ financi	64 day:	Mon 5/5/0	Fri 8/1/0	\$76,591.0										
Task 3.3.4.b.4(2) - System No. 4: System Installa	86 day:	Wed 7/2/0	Thu 10/30/0	\$51,060.0										
Task 3.3.4.c - PV System Monitoring	412 day:	Thu 4/3/0	Mon 11/1/0	\$55,000.0										
Task 3.3.5 - Prepare Final Report for Project 3.3	130 day:	Mon 8/2/0	Fri 1/28/0	\$50,000.0										
Task 3.3.6 - Coordinate with Renewables Project Adv	726 day:	Thu 6/20/0	Thu 3/31/0	\$0.00										
Task 3.3.7.a - Evaluate Project #3.3: Draft Evaluation	44 day:	Mon 11/1/0	Fri 12/31/0	\$80,065.0										
Task 3.3.7.b - Evaluate Project #3.3: Final Evaluation	21 day:	Mon 1/31/0	Tue 3/1/0	\$20,016.0										

**Overview of Fiscal Status:**

Table 2 below summarizes the fiscal status of Project 3.3 by task as of the end of the current reporting period.

**Table 2: Fiscal Status By Task – Project 3.3**

Task Number	Budget	Invoiced To-Date	Fiscal Status *
3.3.1a	REDI \$5,000	\$0	OT
3.3.1b	REDI \$5,000	\$0	OT
3.3.2	REDI \$40,000	\$0	OT
3.3.4a	REDI \$47,000	\$0	OT

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