

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

PROJECT 3.2 – BUILDING INTEGRATED PV TESTING AND EVALUATION

REPORT PREPARED BY: COMMONWEALTH ENERGY TEAM

June 2003

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

- The remaining purchase orders and contracts for the Schott 20 kW system and the series of ten 2 kW small systems still need to be issued.
- We expect to get commitments from the three vendors that were chosen to provide complete systems for the small system testing at PVUSA. These commitments will include either loan of the equipment or to provide these small systems at a very reduced price-so that the cost of the equipment will not adversely impact the project.

**What we actually accomplished this period:**

Task 3.2.2a Large Systems Testing:

- Progress was made on the Commonwealth purchase orders for the Schott 20 kW system and the ten 2 kW small systems, but none of these were signed during June.
- Progress was made on the subcontract with Endecon Engineering to complete the engineering and manage the installation of the 60 kW large systems.

Task 3.2.2b Small Systems Testing

- Work is on hold for the data acquisition system for the small systems until payment is received for the Large Systems DAS Letter.

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

- The Commonwealth Team's Project 3.2 task activity was held up for several months due to negotiation and approval delays of the Commonwealth-IEUA agreement. This delay has a trickle down effect on other tasks. Most affected is Project 3.3, however, the contractual delays in Project 3.2 should help solve future issues for Commonwealth owned BI-PV systems implemented under Project 3.3.

**Significant problems or changes:**

- The legal department at Commonwealth continues to ask questions about the subcontracts to Commonwealth for the installation of the 60 kW PV system. The majority of those issues were resolved in May, but questions continue to hold up the signatures on many of the purchase orders for the other components of the large systems.
- These Project 3.2 task delays are likely to impact the project schedule for later tasks under Project 3.3, and it may impact costs as well.

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

- The remaining purchase orders and contracts for the Schott 20 kW system and the series of ten 2 kW small systems need to be issued.
- Preparation for the installation of the 60 kW PV system will continue, looking to August as the expected start of the installation process.

**Status of Milestones and Deliverables:**

Table 1 below summarizes the status of Project 3.2 task deliverables as of the end of the current reporting period.

**Table 1: Summary of Project Status and Deliverables - Project 3.2**

Task No.	Description	Task Start Date		Task Due Date		Status (%)
		Plan	Actual	Plan	Actual	
3.2.1	BI-PV Evaluation Test Plan	6/20/02	07/01/02	7/20/02	12/20/02	100%
3.2.2a (1)	Large Systems (LS): Site Selection, Permitting & Acquisition	7/5/2002	8/1/2002	8/1/2003		40%
3.2.2a (2)	LS: DAS Letter	07/05/02	07/05/02	03/3/02	5/16/03	100%
3.2.2a (3)	LS: 1 <sup>st</sup> System Report	07/05/02	07/05/02	3/31/03		25%
3.2.2a (4)	LS: 2 <sup>nd</sup> System Report	07/05/02	07/05/02	3/31/03		25%
3.2.2a (5)	LS: 3 <sup>rd</sup> System Report	07/05/02	07/05/02	3/31/03		25%
3.2.2b (1)	Small Systems (SS): Site Selection, Permitting & Acquisition	8/4/2002	8/1/2002	5/1/2003		25%
3.2.2b (2)	SS: DAS Letter	08/04/02	08/04/02	3/14/03		50%
3.2.2b (3)	SS: 1 <sup>st</sup> System Report	08/04/02	08/04/02	4/30/03		12%
3.2.2b (4)	SS: 2 <sup>nd</sup> System Report	08/04/02	08/04/02	4/30/03		12%
3.2.2b (5)	SS: 3 <sup>rd</sup> System Report	08/04/02	08/04/02	4/30/03		12%

**Overall Schedule for Project 3.2:**

Task Name	Duration	Start Date	End Date	2003				2004				2005			
				Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
<b>Project 3.2 - Building Integrated PV Testing and</b>	<b>691 da</b>	<b>Mon 7/1/02</b>	<b>Mon 2/21/05</b>												
Task 3.2.1 - Building Integrated PV Testing and	125 da	Mon 7/1/02	Fri 12/20/03												
Task 3.2.2 - Comprehensive PV System Com	320 da	Fri 7/5/02	Thu 9/25/03												
<b>Task 3.2.2.a - Large Systems Testing</b>	<b>492 da</b>	<b>Fri 7/5/02</b>	<b>Mon 5/24/04</b>												
1) System site selection, permitting & Acqu	106 da	Fri 7/5/02	Mon 12/2/03												
2) Data acquisition System (DAS) letter of	225.5 da	Fri 7/5/02	Fri 5/16/03												
3) Initial Characterization Report for First S	281 da	Fri 7/5/02	Fri 8/1/03												
4) Initial Characterization Report for Secon	281 da	Fri 7/5/02	Fri 8/1/03												
5) Initial Characterization Report for Third	281 da	Fri 7/5/02	Fri 8/1/03												
<b>Critical Project Review Meeting</b>	<b>25 da</b>	<b>Mon 6/30/03</b>	<b>Fri 8/1/03</b>												
6) 6-Month Exposure and Operation Repor	132 da	Mon 12/23/03	Tue 6/24/04												
7) Interim Report on Large Systems Progre	87 da	Mon 8/4/03	Tue 12/2/04												
8) 12-Month Exposure and Operation Repor	87 da	Wed 12/3/03	Thu 4/1/04												
9) Consumer Confidence Guidelines for La	239 da	Wed 6/25/03	Mon 5/24/04												
<b>Task 3.2.2.b - Small Systems Testing</b>	<b>471 da</b>	<b>Mon 8/5/02</b>	<b>Mon 5/24/04</b>												
1) System site selection, permitting & Acqu	65 da	Mon 8/5/02	Fri 11/1/02												
2) Data acquisition System (DAS) letter of	205 da	Mon 8/5/02	Fri 5/16/03												
3) Initial Characterization Report for First S	215 da	Mon 8/5/02	Fri 5/30/03												
4) Initial Characterization Report for Secon	215 da	Mon 8/5/02	Fri 5/30/03												
5) Initial Characterization Report for Third	215 da	Mon 8/5/02	Fri 5/30/03												
<b>Critical Project Review Meeting</b>	<b>25 da</b>	<b>Mon 5/19/03</b>	<b>Fri 6/20/03</b>												
6) 6-Month Exposure and Operation Repor	132 da	Mon 12/23/03	Tue 6/24/04												
7) Interim Report on Small Systems Progre	86 da	Wed 6/25/03	Wed 10/22/04												
8) 12-Month Exposure and Operation Repor	88 da	Thu 10/23/03	Mon 2/23/04												
9) Consumer Confidence Guidelines for Sr	239 da	Wed 6/25/03	Mon 5/24/04												
<b>Task 3.2.3 - Technology Transfer</b>	<b>687 da</b>	<b>Fri 7/5/02</b>	<b>Mon 2/21/05</b>												
1) Initial Web Page Design	128 da	Fri 7/5/02	Wed 1/1/03												
2) Web Page updates for all Systems w/ lir	327 da	Mon 8/5/02	Wed 11/5/03												
3) Technical Papers and Presentations	436 da	Mon 6/23/03	Mon 2/21/04												
4) Four 3-day Workshops	131 da	Mon 8/4/03	Mon 2/2/04												
Task 3.2.4 - Final Report for Project 3.2	88 da	Fri 4/2/04	Tue 8/3/04												
Task 3.2.5 - Coordinate with Renewables Proj	579 da	Fri 7/5/02	Thu 9/23/04												
Task 3.2.6.a - Evaluate Project #3.2: Draft Ev	86 da	Fri 4/2/04	Fri 7/30/04												
Task 3.2.6.b - Evaluate Project #3.2: Final Ev	14 da	Wed 8/4/04	Tue 8/24/04												

**Overview of Fiscal status:**

Table 2 below summarizes the fiscal status of Project 3.2 by task as of the end of the current reporting period.

**Table 2: Fiscal Status by Task - Project 3.2**

<b>Task Number</b>	<b>Budget</b>	<b>Invoiced To-Date</b>	<b>Fiscal Status *</b>
3.2.1	\$9,460	\$9,460	OT
3.2.2a (1)	\$80,507	\$0	OT
3.2.2a (2)	\$75,000	\$75,000	OT
3.2.2.a (3)	\$32,500	\$0	OT
3.2.2a (4)	\$32,500	\$0	OT
3.2.2a (5)	\$32,500	\$0	OT
3.2.2b (1)	\$0	\$0	OT
3.2.2b (2)	\$50,000	\$0	OT
3.2.2b (3)	\$32,500	\$0	OT
3.2.2b (4)	\$32,500	\$0	OT
3.2.2b (5)	\$32,500	\$0	OT
3.2.3	\$108,639	\$0	OT
3.2.4	\$34,705	\$0	OT

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