



CHANGE ORDER SUMMARY

Project:	LPC Microgrid Project	Change Order No.:	1
Owner:	Chabot-Las Positas Community College District	Date Issued:	3/13/2019
Contractor:	Growing Energy Labs	Project No.:	543001, PO #M160004
DSA File No.:		DSA Application No.:	

1.01	PCO #1	Reduce Scope to work performed and Billed to Jan 2019	Cost: \$-76,000	
	Direction	Reduce contract to amount billed to Jan 2019		
	Reason for Change:	GELI reduced scope	Supporting Docs	Email agreement
	Requested By:	GELI	Attachments	

Contract Adjustment

Original Contract Amount	\$ 200,200.00
Previously Approved Change Orders	\$ 0.00
Change Order No. 1	-\$76,000.00
Allowance Adjustment	
Current Contract Amount	\$ 124,200.00

Construction Mgr	Contractor	Owner
Signature	 Signature	Signature
Name	DANIEL W. WOLF Name	Name
Date	March 25, 2019 Date	Date

Geli stopped billing on all tasks in April, 2018. Geli will not bill the second half of the software license payment (\$50k). Geli will release claim on retained funds (~\$12k+).
Total CEC funds Geli will abandon: ~\$138,000+ (includes \$76k for tasks, \$50k for second half of software payment and ~\$12k+ of retained funds)
Total Geli received from CEC Grant: ~\$162,000

Geli to Complete:

- DCM with ongoing software maintenance for ten years as outlined in software license agreement (again, we will not bill for the second \$50k payment)
- Assist with Geli exit in regards to CEC
- Support Final Commissioning Report – Task 10
- Back-up Power*
- Support Final Report – Task 1.6

Geli to Not Complete:

- Chiller control
- Bruce's Microgrid – everything Bruce has requested in regards to an islanded microgrid other than what is outlined below for Back-up Power
- Measurement & Verification Report – Task 11
- Demand Response Modeling – Task 12
- Develop Microgrid Blueprint – Task 13
- Evaluation of Project Benefits – Task 14
- Technology/Knowledge Transfer Activities – Task 15

*Geli senses SEL-351 opens due to grid outage. Geli commands one UET system to go into grid forming mode (secondary system follows grid forming system or does nothing). Battery discharges until grid comes back or it is empty. Geli receives signal from SEL-351 that grid is back. Geli commands the one UET in grid forming mode to shut down, creating a dead-bus. SEL-351 senses when it is safe to close the breaker and then closes it. Normal operation is restored via Geli commanding both UET system to go into grid following mode. Caveat: UET needs to test their system in grid forming mode before Geli can attempt to control this functionality.