

**COUNTY OF SONOMA
SUSTAINABLE SOLUTIONS TURNKEY IMPLEMENTATION PROJECT
WORK ORDER #2**

This Project Implementation WORK ORDER (“Work Order”), effective as of the date signed by the County of Sonoma (“Customer” or “County”) (“Work Order Effective Date”), is issued by the Customer to Pacific Gas and Electric Company (“PG&E”). This Work Order is issued under and subject to the terms and conditions of the Master Service Agreement between Customer and PG&E, dated October 20, 2021 (“Service Agreement”), attached hereto, and incorporated herein as Exhibit A. Customer and PG&E shall each individually be referred to as “Party” and together constitute “Parties.”

In June 2022, the County initiated an Investment Grade Audit (“IGA”) for energy services across multiple County facilities with PG&E. At a public hearing on July 23, 2024, Customer’s governing body determined to enter into this Work Order and adopted findings consistent with Government Code Section 4217.12 that the anticipated costs of the energy conservation services provided under this Work Order will be less than the Customer’s anticipated cost of energy that would otherwise have been consumed by the Customer in the absence of the energy conservation measures to be implemented under this Work Order.

Pursuant to the provisions of the Service Agreement, the Customer, in its sole discretion, authorizes PG&E to provide the Implementation Work, defined below in Section 1, and hereby notifies PG&E to commence work on the following project (“Project”):

PROJECT NAME:	County of Sonoma – Countywide Various locations documented in the IGA, attached as
PROJECT SITES:	Attachment 1 to Exhibit B (each location is referred to herein as a “Site”)
AMOUNT OF WORK ORDER:	Not to Exceed \$27,053,100 (good through August 31, 2024 per Section 6.1.1 below)

1. SCOPE OF WORK

- 1.1.** PG&E will provide certain energy conservation services to procure equipment for, construct, implement and deliver to Customer those measures described in the Scope of Work (“SOW”) at various Customer facilities as identified in the SOW (the “Sites”). The SOW is attached hereto as Exhibit B and incorporated by reference herein. The conservation services to be performed under this Work Order shall be referred to hereinafter as the “Implementation Work”.

PG&E shall have no obligations to perform any Implementation Work under this Work Order unless and until Customer has executed and issued this Work Order under the Service Agreement on or before August 31, 2024. (See Section 6.1.1 below) The issuance of this Work Order does not commit PG&E to perform any future work for Customer beyond the scope of the SOW.

All terms and conditions pertaining to project implementation work orders (“PIWOs”) and/or any energy conservation measures as stated in the Services Agreement are incorporated hereto by reference as if set forth fully herein, including without limitation the requirement to comply with applicable prevailing wage requirements as to all Implementation Work.

In accordance with Section 3 of the Services Agreement, PG&E shall obtain and deliver to Customer payment and performance bonds as required therein, from a surety company authorized to do business in California and having a financial strength rating by A.M. Best Company of “A-” or better, in a sum equal to the stated amount of this Work Order. Each bond shall be conditioned on the completion of the work of the Project and upon payment of all claims of subcontractors and suppliers.

- 1.2. Subcontractors. PG&E reserves the right to engage third party subcontractors (“Subcontractors”) to perform some or a portion of the Implementation Work. PG&E agrees that, as between PG&E and Customer, PG&E shall be solely responsible for the Subcontractors performance of the Implementation Work under this Work Order. In addition, unless otherwise set forth in this Work Order, the fees and costs billed to Customer shall be inclusive of any, and all, fees, and compensation due to any Subcontractors. PG&E shall be responsible for the payment of any compensation, monies, wages, or other payment due or allegedly due Subcontractors. For purposes of this Agreement, PG&E and its Subcontractors shall be collectively referred to as “PG&E”.
- 1.3. Term of Work Order. Provided that this Work Order is issued no later than August 31, 2024, the term of this Work Order shall commence upon the Work Order Effective Date and shall continue until August 31, 2026; unless sooner terminated or extended as permitted under the Service Agreement (the “Work Order Term”). PG&E shall complete the Implementation Work generally in accordance with the milestone dates described in the Estimated Project Schedule attached hereto as Exhibit C and incorporated by reference herein.

2. PERFORMANCE OF THE IMPLEMENTATION WORK

2.1. Project Construction

2.1.1. PG&E’s Responsibilities.

2.1.1.1. Subject to Section 6.1.1 below, upon the Work Order Effective Date, PG&E shall commence the Implementation Work in accordance with the Service Agreement, this Work Order, the attached SOW, and any applicable Work Order modifications. PG&E will provide all professional and other services, labor, materials, equipment, tools, transportation, and other services necessary for the proper performance and completion of the Implementation Work. PG&E will be responsible for the means, methods, techniques, sequences, and procedures to implement the Project, and shall oversee Project construction. PG&E shall be responsible for preparation of the Sites for the Implementation Work. It is acknowledged and agreed that



PG&E, working on Customer's behalf, will provide all services to obtain all permits and approvals necessary to proceed with the Implementation Work.

- 2.1.1.2. PG&E will use commercially reasonable efforts to minimize disruption to Customer's use and operations at the Sites. PG&E will provide at least ten (10) calendar days written notice to Customer of any planned power or other utilities outages that will be necessary for the Implementation Work. Customer will cooperate with PG&E in scheduling such outages, and Customer agrees to provide its reasonable approval of any scheduled outage.
- 2.1.1.3. By executing this Work Order, PG&E hereby confirms that it has visited the Project Sites and that it understands the nature and extent of its Implementation Work under this Work Order, including all reasonably ascertainable conditions related to the ECMs and all ECM related information provided by the Customer before executing the Work Order. Regarding information concerning aboveground and as-built conditions related to the ECMs supplied by Customer, such information has been compiled in good faith by the Customer and PG&E acknowledges that it shall not solely rely thereon but shall confirm by its own observation such aboveground and as-built conditions and shall bring any discrepancies to Customer's attention through written question.
- 2.1.2. Customer's Responsibilities.
 - 2.1.2.1. Customer will take reasonable measures to provide PG&E, its personnel and Subcontractors with access to the Sites, suitable office space and other reasonable accommodations necessary to permit PG&E personnel and its Subcontractors to perform the Implementation Work on this Project. While working on the Sites, if requested by Customer, the PG&E Project team personnel will be located in an area adjacent to Customer's subject matter experts and technical personnel, and all necessary security badges and clearance will be provided for access to this area, all in accordance with Customer's vendor policies. Additionally, upon request Customer will provide to PG&E and its Subcontractors relevant Site information or documents necessary to perform the Implementation Work, including but not limited to a copy of this Work Order, all Work Order modifications, the Service Agreement, a copy of relevant drawings, specifications, operation, and maintenance manuals for equipment at the Sites, and other pertinent documents.
 - 2.1.2.2. Customer will arrange for a temporary staging area for the storage and assembly of equipment for completion of the Implementation Work, if needed.
 - 2.1.2.3. Customer will coordinate the Implementation Work to be performed by PG&E with the Customer's operations and other activities and with any other construction project that is ongoing at or around the Sites.

- 2.2. Training and Commissioning Services. PG&E shall provide training to Customer on equipment installed as described in the SOW. PG&E shall perform commissioning services in accordance with the equipment manufacturers' startup and commissioning recommendations and the Project Schedule.
- 2.3. Certificate of Substantial Completion. "Substantial Completion" means an energy conservation measure implemented as part of the Project ("ECM" or Project measure) is generally capable of being used for or achieving the purpose intended by this Work Order. Substantial Completion does not occur until the ECM is commissioned and accepted by the Customer and the Customer executes a Substantial Completion form substantially in the form of that attached to this Work Order as Exhibit E. Promptly upon substantial completion of each Project measure, PG&E will submit a Certificate of Substantial Completion to Customer for such measure. Upon receipt of such certificate, Customer may inspect the Implementation Work and meet with PG&E's Project Manager to determine if the Project measure has achieved Substantial Completion. Customer shall, within ten (10) business days of receipt of the Certificate of Substantial Completion, inform PG&E if Customer agrees that the Project measure has achieved Substantial Completion. If Customer disagrees that the Project measure has achieved Substantial Completion, Customer will specify in detail and in writing the deficiencies requiring correction in order to achieve Substantial Completion. When Substantial Completion has been achieved, Customer will execute and return the Certificate of Substantial Completion to PG&E stating that: (i) the Project measure has achieved Substantial Completion and the date on which it did so, and (ii) that on and after that date Customer will assume responsibility for the Project measure's operation, maintenance, and repair, for damage to or destruction of the Project measure, and for the Project measure's security and insurance coverage. As provided in Section 8, all right, title, and interest to all, or a portion of each ECM, will pass to Customer upon the date payment, in full or in partial payment, as applicable, for such ECM is made by Customer. Notwithstanding, PG&E will retain care, custody and control and risk of loss of such ECM until Substantial Completion as to the subject ECM. Transfer of title to Customer will in no way affect Customer's and PG&E's rights and obligations as set forth in other provisions of this Work Order.
- 2.4. Close-Out Documentation. Within forty-five (45) days after each Certificate of Substantial Completion has been executed by Customer and received by PG&E, PG&E shall provide Customer with (a) any applicable governmental approvals, permits, and sign-offs, (b) all equipment specifications and ratings, (c) any applicable test data and reports, (d) final as-built and shop drawings, (e) operating instructions, operations and maintenance manuals and schedules, recommended spare parts lists, and all other written information relating to the Project measure, and (f) equipment warranties.
- 2.5. Final Project Completion. Promptly after PG&E reasonably believes that Final Project Completion (as defined below in Section 2.5.1) has occurred, PG&E shall issue to Customer a Notice of Final Project Completion. Thereafter, Customer shall, within fourteen (14) business days, deliver its acknowledgment that Final Project Completion has been achieved. The date of Final Project

Completion shall be the date of Customer's written acceptance of PG&E's Notice of Final Project Completion, provided that Customer's failure to respond within the fourteen (14) day notice period shall be deemed acceptance that Final Project Completion has occurred.

2.5.1 For purposes of this Work Order, the term "Final Project Completion" means the date when all of the following have been accomplished: (a) each Project measure has achieved Substantial Completion, (b) all "punch list" items have been completed, (c) all Close-out documentation has been delivered to Customer, (d) PG&E has delivered to Customer: (i) a release of all lien rights, (ii) certification that all claims for payment for labor and equipment for which PG&E is responsible have been paid or satisfied, (iii) copies of waivers/releases of lien rights by Subcontractors that have furnished goods, services or both for the Project, (iv) notice of all outstanding claims of PG&E, any Subcontractor or equipment or materials supplier or distributor that may affect Customer, PG&E or the Project, (v) a letter of indemnification regarding claims not addressed by waivers/releases, and (vi) removal of all of PG&E and Subcontractors' personnel, supplies, equipment, waste materials, rubbish, and temporary facilities from the Sites.

2.6. PG&E shall not be liable for any claims, liabilities, or losses arising out of, resulting from, or in any way connected with, Customer's: (a) neglect, misuse, or abuse of the equipment; (b) use of unauthorized parts, or removal of any parts; (c) repair, modification or alteration of equipment by anyone other than authorized representatives as described in the warranties covering the equipment; (d) relocation of the equipment.

3. ORDER OF PRECEDENCE

In the event of a conflict between the provisions of this Work Order, any modification to this Work Order, and the Service Agreement, the following order of precedence shall apply (in descending order): (a) any modification to this Work Order, (b) the Work Order, and (c) the Service Agreement. For clarity, specification of further detail or additional provisions not inconsistent with the terms and conditions of the Service Agreement shall not be deemed an express amendment or to be in conflict or inconsistent with the Service Agreement, and the various provisions shall all be applied to the fullest extent.

4. MODIFICATIONS

If a modification to this Work Order is necessary, the Parties agree to follow the modification process set forth in Section B.5 of the Service Agreement.

5. AUTHORIZATION

Customer's execution of this Work Order shall constitute a 'Notice to Proceed' to PG&E and shall (i) indicate its acceptance of the terms and conditions set forth herein, and (ii) indicate Customer's

confirmation that it has secured sufficient funding and project financing to cover the cost of the Implementation Work.

6. PAYMENT

6.1. Project Payment

6.1.1. Provided this Work Order is executed by Customer on or before August 31, 2024, PG&E will be paid a minimum price of \$26,471,544.00 (twenty-six million, four hundred seventy-one thousand, five-hundred forty-four dollars) with a not to exceed price of \$27,053,100.00 (twenty-seven million, fifty-three thousand, one-hundred dollars) for this Work Order. These amounts include the \$272,500 (Two-Hundred Seventy-Two Thousand Five-Hundred Dollars) IGA/ECA costs and \$2,750 in IGA/ECA costs related to the Parties' Work Order #1 of October 14, 2023 for services at the Santa Rosa Veteran's Building, all of which are being rolled into and which shall be satisfied by payment of the Project Payment amount stated herein. In the event that this Work Order is not executed by County on or by August 31, 2024, PG&E will have no obligations under this Work Order unless and until the Parties agree to a revised Work Order Amount and a revised Work Order is issued by Customer reflecting that revised Work Order Amount.

6.1.2 Upon execution of this Work Order, PG&E will lock in Subcontractor pricing. Any changes to the minimum price will be provided to the Customer for review. Upon acceptance, this new amount, if there are any increases, will become the mutually agreed-upon fixed-firm amount for this Work Order

6.1.3. PG&E will submit monthly invoices to Customer based upon an agreed upon percentage completion of each task line item in the Schedule of Values (Exhibit D), which is attached hereto and incorporated by reference herein. The Schedule of Values and invoiced amounts thereunder shall reflect a five percent (5%) retention for each ECM, payable upon Substantial Project Completion as to the corresponding ECM.

6.1.4. PG&E will be paid for any modifications elected by Customer to be completed through a modification to this Work Order.

6.2 Each PG&E invoice will reference this Work Order and be submitted to Customer's billing address indicated below. Customer shall render, or instruct its financial institution to render, all payments to PG&E within thirty (30) days from the invoice date. Each payment made by Customer, or its third-party designee, must reference this Work Order and invoice number). Customer shall enroll in PG&E's Automated Clearing House (ACH) payment program and shall make all payments for services under this Work Order by ACH.

6.3 Payment Disputes. If a payment dispute arises under this Work Order that is not settled promptly in the ordinary course of business, the parties shall first seek to resolve any such dispute between them

by negotiating promptly in good faith negotiations. These negotiations shall be conducted by the respective designated senior managers (Director level or above) of each party responsible for their relationship and shall be escalated internally by each party as reasonably necessary to seek resolution of the dispute. If the parties are unable to resolve the dispute between them through these negotiations within thirty (30) business days following their commencement (or within such other period as the parties may otherwise mutually agree upon), then the parties shall escalate the dispute to their most senior executives within their organization (VP level or above). If the matter has not been resolved within thirty (30) business days following commencement of discussions between the senior executives, either Party may initiate a non-binding mediation. If the Parties are unable to resolve their dispute by way of non-binding mediation, the cost of which shall be shared equally by the Parties, then either Party may file suit in a court of competent jurisdiction. Completion of non-binding mediation is a condition precedent to commencement or continue prosecution of litigation. All negotiations and any mediation conducted pursuant to this Section 6.3 are confidential and shall be treated as compromise and settlement negotiations, to which applicable laws including Sections 1119 and 1152 of the California Evidence Code shall apply. Notwithstanding anything to the contrary in the Agreement or this Work Order, pending the resolution of the issues(s), PG&E may temporarily suspend its performance of the Implementation Work until such dispute has been resolved.

7 NOTIFICATIONS AND INTERFACE

Both Parties shall contact and/or deliver written notices (email is allowed) to the business contacts below in the normal course of business, and in the event of any problems which may significantly affect the performance of the Implementation Work under this Work Order.

CUSTOMER REPRESENTATIVE

Name Johannes J. Hoevertsz
 Title Director
 Address 2300 County Center Drive, Suite A220
Santa Rosa, CA 95403
 Telephone 707-565-2231
 Email johannes.hoevertsz@sonoma-county.org

PG&E REPRESENTATIVE

Name John Garnett
 Title Principal Product Manager
 Address 245 Market Street, Mail Code N10D
San Francisco, CA 94105
 Telephone 415-672-1746
 Email John.Garnett@pge.com

CUSTOMER BILLING CONTACT

Name Johannes J. Hoevertsz
 Title Director
 Address 2300 County Center Drive, Suite A220
Santa Rosa, CA 95403
 Telephone 707-565-2231
 Email johannes.hoevertsz@sonoma-county.org

8 OWNERSHIP OF EQUIPMENT

8.1 Ownership and title to any equipment purchased by PG&E or its Subcontractor on Customer’s behalf in connection with providing the Implementation Work pursuant to this Work Order will be transferred to Customer upon Substantial Completion of the ECM of which such equipment is a part, and no further agreement will be necessary to transfer ownership to the Customer.

8.2 PG&E shall not be liable for any claims, liabilities, or losses to the extent arising out of, resulting from or in any way connected with Customer’s use of the equipment.

9 SUPPLEMENTARY CONDITIONS

9.1 SPECIAL REQUIREMENTS FOR COUNTY DETENTION FACILITIES

All County detention facilities, including the Main Adult Detention Facility, maintain a “No hostage” policy. All persons entering a detention facility are on notice that, in a hostage situation, the Sheriff’s Department will not negotiate for the release of hostages.

Detention Facilities are operating 24 hours per day 7 day per week. Work may be performed between the hours of 7:30 AM and 6:00 PM during the week. PG&E may make arrangements for work to proceed before or after normal hours or on weekends with prior approval of County Architect.

Some types of work require that they be done without personnel in the vicinity. Such work shall be substantially completed, including painting, lacquering, plastic lamination application and carpet gluing prior to 8:00 AM of the following workday. The affected department will do all that is possible to allow for PG&E operation but will expect PG&E to make arrangements for necessary ingress and egress to the department.

PG&E will review the employees selected to work on the Project and limit access to those having no previous criminal record. PG&E shall provide Sheriff’s Department through County’s Project Manager the full name, California driver’s license number, social security number and date of birth for all workers and supervisory personnel and subcontractors. Any employee or subcontractor entering the premises must have a preliminary background clearance. There will be no exceptions to this. Only approved personnel will be allowed on site. All information gathered through this process will be kept confidential and access to the information limited to Sheriff’s Department.

All employees, etc. approved to work on the project must attend a mandatory training session to be conducted by Sheriff’s Department. Any substitutions or replacements of approved personnel are subject to the same requirements for background clearance before they will be permitted on the premises. Understaffing of the project as a result of lack of approved personnel will be the sole responsibility of PG&E and County will not grant any time extensions or other contract modifications due to such understaffing.

PG&E will take all appropriate measure to ensure the security of the jobsite and all of the included work and storage areas. No tools are to be left unattended within the secure area of the building or grounds. PG&E will direct that all employees and subcontractors diligently police the construction area for removal of tools, debris, and any other project materials. Violation of these protocols will be grounds for removal of violating personnel from the site. Should this occur, County will not grant any time extensions on the project relating to lost labor time.

No inmate is to work with or assist PG&E in any way.

A policy of enforced separation between PG&E’s personnel and inmates will be maintained during all projects. Communication between working personnel and inmates shall be limited to that which is required to proceed with the work or to mitigate unsafe conditions. No information regarding the work shall be provided to inmates. All necessary communication shall be directed to the Architect’s

Office of Sheriff's Department personnel. Violation of this protocol will result in immediate dismissal from the site and no time extensions will be granted to PG&E.

Any work that might create health hazards, excessive noise, dust, etc. must be conducted and coordinated with the approval of Sheriff's Department and County Architect's Office. Without limiting the foregoing, PG&E shall provide and maintain necessary temporary partitions, dust curtains or other units necessary to allow department's business to proceed in a normal fashion and to secure the work area from inmate intrusion.

No work or storage of materials will be performed in inmate or public areas without protective measures and prior approval of facility staff and County Architect's Office.

Any work performed at the entrance or exits to the buildings must have proper protection in place to safeguard persons entering or exiting the building.

PG&E must schedule any required utility cut-offs or interruptions with County Architect's Office at least 48 hours before the work being performed. If there will be interruptions to electrical service to any occupied building in excess of one (1) hour, PG&E will be responsible for supplying a generator or other means of temporary power sufficient to fulfill the building's normal requirements.

PG&E is responsible for disseminating the information in this Section to all employees and subcontractors and will ensure that all parties acting under PG&E's direction will comply with the directives herein.

9.2 SPECIAL REQUIREMENTS FOR THE VALLEY OF THE MOON CHILDREN'S CENTER

The Valley of the Moon Children's Center is an emergency shelter for children of Sonoma County. As such, privacy rights of resident children are protected.

PG&E, and all its subcontractors, suppliers, and employees of such, hereafter referred to as PG&E, who are on site shall observe the privacy and anonymity of the resident children as follows:

1. No photographs or videos of children shall be taken.
2. No discussion or identification with outside sources or persons of resident children.
3. Children shall not be allowed in PG&E vehicles.
4. No purchasing for or provision of tobacco or alcohol products to children.
5. No encouragement of conversation with children.

To further protect the resident children, PG&E shall ensure that:

6. No construction materials or construction debris shall be left unattended in a location accessible to children at any time.

Violation of the above shall be cause for legal action against the responsible party.

10 AUTHORITY



Customer represents and warrants that the individual signing below, as well as any Work Order modifications and approvals hereunder, has and shall have all requisite power and legal authority to bind the Customer to its obligations hereunder.

IN WITNESS THEREOF, the parties agree to be bound by this Work Order as of the date first set forth above.

COUNTY OF SONOMA

Signature: _____

Print Name: Johannes Hoevertsz

Title: Director, Department of Public Infrastructure

Date: _____

PACIFIC GAS AND ELECTRIC COMPANY

Signature: _____

Print Name: _____

Title: _____

Date: _____



**EXHIBIT A
MASTER SERVICE AGREEMENT**

DRAFT

EXHIBIT B SCOPE OF WORK

ECM-1: LED Lighting

This measure includes the retrofit of existing lighting systems with new LED lamps or LED retrofit kits to improve building aesthetics while reducing energy consumption and maintenance costs. Additionally, sensors and controls will be installed where required to meet the 2022 Title 24 lighting requirements.

Demo

- Demo existing lighting systems identified in provided lighting audit
- Recycle and dispose of lighting systems per all applicable local, state and federal regulations

Scope of Work

- All fluorescent, incandescent, halogen, and HID lamps shall be retrofitted or replaced with LED lamps or fixtures as identified in the lighting audit
- Furnish and install all materials and labor to provide a complete LED lighting system
- Furnish and install sensors and controls required to meet 2022 Title 24 guidelines. The lighting controls will be “standalone” and will not be integrated to the building management system.
- Furnish 1% “attic stock” for lamps and drivers
- All existing fixtures with emergency backup ballasts shall retain that function with new battery backed drivers or inverters
- Provide all necessary floor and wall protection to protect existing conditions
- Consistently communicate schedule with appropriate County staff
- County shall be responsible for moving any furniture or materials preventing the installation of lighting or controls materials. (see Clarifications)
- All spaces will be cleaned at the end of each work shift
- All penetration or damage to drywall must be patched back to maintain their fire rating
- Provide proper recycling/disposal documentation upon completion of each building to ensure an environmentally friendly and legal disposal of hazardous material during this scope of work
- Coordinate all logistics needed for receiving, unloading, verifying material, storing, and securing the materials onsite per building

A designated location will be provided at each building for storage container(s), dumpsters, and temporary toilets for the subcontractor.

Table 1 – Buildings Included in Lighting Scope

Buildings Included in Lighting Scope
2300 & 2350 Professional Dr
Animal Services
Bodega Harbor Yacht Club
Central Mechanical Plant
Classroom A-L
Cloverdale Park and Ride
Cloverdale Veterans Building
CMP Trailer



Cotati Veterans Memorial
Court's School
EC Kraft Building
Environmental Discovery Center of Sonoma County
Facilities Operations Office
Fairgrounds Office
Fairgrounds – Finley Hall
Fairgrounds – Garden Building
Fairgrounds – Garrett Building
Fairgrounds – Grace Pavilion
Fairgrounds – Sara Lee & Richards Barn
Fairgrounds – Hall of Flowers
Family Justice Center
Firing Range
General Services Heavy Fleet
Hall of Justice
Hall of Justice Human Resources Out Building
House #2 Admin Office
House #4 Residential
House #5 Residential
Information Systems
Juvenile Justice Center
MADF Jail/Courts/Administration
MADF Service Building
Maintenance Building
New Valley of the Moon Children's Home
New Valley of the Moon Children's Home Phase 3
Petaluma Veterans Memorial
Sebastopol Veterans Memorial
Sheriff Building
Sheriff Evidence Building
Sierra Dorm #5
Sonoma Veterans Memorial
Spud Point Marina Office
Youth Camp Main Building
Youth Camp Shop
Youth Camp Warehouse

Table 2 – Summary of Existing and Proposed Lighting Fixtures

Summary of Existing and Proposed Fixtures					
Item	Fixture	Fixture Attributes	Action	Proposed	Qty
1	CFL-CF16W-1	Keyless-Medium-No Lens-Surface-4000-No	Retrofit	17w LED A21 Screw in Lamps 120-277v 30K	386
2	MH-MH50-1	Post Top-Mogul-Glass-Pole-4000-No	Retrofit	24w LED Bypass Lamp 40K	15



Summary of Existing and Proposed Fixtures					
Item	Fixture	Fixture Attributes	Action	Proposed	Qty
3	HAL-MR16-35-1	Track-2 Pin-No Lens-Track-3000-*	Retrofit	8.5W LED MR16 40K	34
4	CIRC-FC12T9-1	12"x12" Surface Canopy-Square-Prismatic-Surface-4100-No	Retrofit	27W LED Canopy Fixture BZ 50K	39
5	CFL-CF26W-6	High Bay-Plug-in 4 Pin - Vertical-Clear-Pendant-4100-No	Replace	134W 1x2 LED Highbay Wide Distribution 50K w/ Controls	147
6	HPS-HPS1000-1	Lowbay-Mogul-Open - no lens-Hook-3000-No	Replace	210W 1x2 LED Highbay Medium Distribution 50K w/ Controls	2
7	EXIT-CFT5W-2	Exit-Metallic-Green-Wall-*-*	Replace	Red/Green Exit with Ni-MH backup battery	0
8	CFL-CF7W-2	Drum-Plug-in 2 Pin - Horizontal-Frosted-Surface-4100-No	Replace	24W LED Low Profile Round Flush Mount Fixture	16
9	MH-MH400-1	Flood-Mogul-Glass-Yoke-4000-No	Replace	100/130/150w Floodlight CCT Yoke Mount	51
10	CFL-CF80W-1	Flood-Mogul-Clear-Tenon-4100-No	Replace	40/50/60w Floodlight CCT Knuckle Mount	52
11	MH-MH250-1	Cobra Head-Mogul-Prismatic-Pole-4000-No	Replace	90/120/150w LED Area Light Bronze 50K 277-480v Slip Fitter w/ Sensor	33
12	MH-MH1000-1	Flood-Mogul-Clear-Yoke-4000-No	Replace	160/190/240W Area Light 50K Type 3 480v	36
13	CFL-CF42W-1	Wallpack-Medium-Prismatic-Wall-4000-No	Replace	28/38/60w LED Wallpack Bronze 3/4/5000K PC	193
14	F-F17T8-1	2 foot D/I Linear-*-* Perforated lens-Wall-4100-No	Retrofit	Relamp and Remove Ballast 1 2' TLED Lamp 40K	12
15	F-F17T8-1	Undercabinet-2 foot-Diffused-Surface-*-*	Retrofit	Relamp and Remove Ballast 1 2' TLED Lamp 40K	46
16	F-F25T8-1	Wall Wash-3 foot-Louver-Surface-4100-No	Retrofit	Relamp and Remove Ballast 1 3' TLED Lamp 40K	20
17	F-F25T8-1	Undercabinet-3 foot-Diffused-Surface-4100-No	Retrofit	Relamp and Remove Ballast 1 3' TLED amp 40K	9
18	F-F28T5-1	Vanity-3 foot-Frosted-Wall-4000-No	Retrofit	Relamp and Remove Ballast 1 4' TLED T5 Lamp 40K	6
19	F-F28T8-1	Strip-4 foot-No Lens-Cove-4100-No	Retrofit	Relamp and Remove Ballast 1 4' TLED Lamp 40K	337
20	F-F28T8-1	Troffer-2X4-Prismatic-Recessed-5000-No	Retrofit	Relamp and Remove Ballast 1 4' TLED Lamp 40K	481
21	MH-MH50-1	10-in Can-Medium-Prismatic-Recessed-4000-No	Retrofit	25/32/38w LED 10" Downlight Kit CCT	743



Summary of Existing and Proposed Fixtures					
Item	Fixture	Fixture Attributes	Action	Proposed	Qty
22	HAL-MR16-35-1	4-in Can-2 Pin-No Lens-Recessed-3000-No	Retrofit	13/19/25w 4" LED Downlight Kit 0-10v/Phase 3000/3500/4000/5000K	90
23	CFL-CF13W-1	6-in Can-Plug-in 2 Pin - Vertical-No Lens-Pendant-4100-No	Retrofit	13/19/25w 6" LED Downlight Kit 0-10v/Phase 3000/3500/4000/5000K	482
24	CFL-CFQ13W-2	Round-Plug-in 2 Pin - Horizontal-Frosted-Surface-4100-No	Retrofit	13/19/25w 8" LED Downlight Kit 0-10v/Phase 3000/3500/4000/5000K	631
25	INCAN-I50-1	Chandelier-A19-No Lens-Suspended-3000-No	Retrofit	12W LED A19 Lamp 40K	9
26	INCAN-I65-1	Track-R30-No Lens-Wall-3000-No	Retrofit	15w LED Par38 Lamp 40K	84
27	INCAN-I100-1	Jelly Jar-A19-* -Wall-* -*	Retrofit	20w LED Jelly Jar Ceiling Mount 40K	97
28	CFL-CFT9W-2	Sconce-Plug-in 2 Pin - Horizontal-No Lens-Wall-4100-No	Retrofit	15w LED 7.4" x 4" Rectangular LED Kit 40K	780
29	CFL-CF9W-2	Square Canopy-Plug-in 2 Pin - Horizontal-Frosted-Surface-4100-No	Retrofit	21w LED 7.83" Round Kit 0-10v CCT	823
30	CFL-CF23W-1	Bollard-Medium-Frosted-Ground-4000-No	Retrofit	16w LED A21 Screw in Lamps 120-277v 40K Bypass Ballast	52
31	MH-MH250-2	Cobra Head-Mogul-Prismatic-Pole-4000-No	Replace	90/120/150w LED Area Light Bronze 50K 277-480v Slip Fitter w/ Sensor (2)	11
32	F-F14T5-2	Undercabinet-4 foot-Diffused-Surface-4100-*	Replace	Relamp and Remove Driver 2 2' T5 lamps 40K	14
33	F-F17T8-2	Vanity-2 foot-Prismatic-Wall-4100-No	Retrofit	Relamp and Remove Ballast 2 2' T8LED Lamp 40K	114
34	F-F17T8-2	Vanity-2 foot-Prismatic-Wall-4100-No	Retrofit	Relamp and Remove Ballast 2 2' T8LED Lamp 40K	821
35	F-F24T5-2	Indirect-6 foot-No Lens-Wall-4000-No	Retrofit	Relamp and Driver 2 3' T5HE TLED Lamp 40K	20
36	F-F25T8-2	Strip-3 foot-Louver-Wall Wash-4100-No	Retrofit	Relamp and Remove Ballast 2 3' TLED Lamp 40K	43
37	F-F25T8-2	Troffer-3 foot-Prismatic-Surface-4000-No	Retrofit	Relamp and Remove Ballast 2 3' TLED Lamp 40K	24
38	F-F28T5-2	Indirect-8 foot-No Lens-Wall-4000-No	Retrofit	Relamp and Remove Ballast 2 4' TLED T5 Lamp 40K	40
39	F-F28T5-1	Indirect-4 foot-Louver-Wall-* -*	Retrofit	Relamp and Remove Ballast 1 4' TLED T5 Lamp 40K	33



Summary of Existing and Proposed Fixtures					
Item	Fixture	Fixture Attributes	Action	Proposed	Qty
40	F-F28T8-2	Strip-4 foot-Metal Wireguard-Pendant-4100-No	Retrofit	Relamp and Remove Ballast 2 4' TLED Lamps 40K	5,042
41	F-F28T8-2	Troffer-2X4-Parabolic 18 Cell-Recessed-4100-No	Retrofit	Relamp and Remove Ballast 2 4' TLED Lamps 40K	3,345
42	F-F60T12-2	Strip-8 foot-Prismatic-Surface-4000-No	Retrofit	Relamp and Remove Ballast 2 8' TLED Lamp 40K	15
43	UFL-FU31T8/3-3	2X2-Troffer-Parabolic-Recessed-4100-No	Retrofit	Relamp and Driver 2 U TLED 1 5/8 Lamps 40K	4
44	UFL-FU28T8/3-2	2X2-*-Prismatic-Recessed-4100-No	Retrofit	Relamp and Driver 2 U Lamp TLED Type B Lamps 40K	5
45	UFL-FU31T8/6-2	2X2-Tamper Proof Troffer-Prismatic-Recessed-*-*	Retrofit	Relamp 2 U LED Direct Wire Lamps 40K Espen	97
46	F-F17T8-3	Troffer-2X2-Center Basket-Recessed-4100-No	Retrofit	Relamp and Remove Ballast 3 2' TLED Lamp 40K	68
47	F-F17T8-3	Troffer-2X2-Prismatic-Recessed-4100-No	Retrofit	Relamp and Remove Ballast 3 2' TLED Lamp 40K	3
48	F-F28T8-3	Troffer-2X4-Prismatic-Recessed-4100-No	Retrofit	Relamp and Remove Ballast 3 4' TLED Lamps 40K	270
49	F-F28T8-3	Troffer-2X4-Parabolic 18 Cell-Recessed-4100-No	Retrofit	Relamp and Remove Ballast 3 4' TLED Lamps 40K	484
50	INCAN-I40-3	Chandelier-A19-Clear-Pendant-3000-No	Retrofit	12W LED A19 Lamp 40K (3)	1
51	F-F25T8-4	Direct/Indirect-3 foot-Louver-Wall-4100-No	Retrofit	Relamp and Remove Ballast 4 3' TLED Lamp 40K	0
52	F-F28T8-4	Troffer-2X4-Prismatic-Recessed-4100-No	Retrofit	Relamp and Remove Ballast 4 4' TLED Lamps 40K	808
53	F-F28T8-4	Industrial Strip-8 foot-*-Chain-4100-No	Retrofit	Relamp and Remove Ballast 4 4' TLED Lamps 40K	768
54	F-F28T8-6	Linear Direct / Indirect-8 foot-Louver-Aircraft Cable-4100-No	Retrofit	Relamp and Remove Ballast 6 4' TLED Lamps 40K	44
55	F-F54T5HO-8	Highbay-2X4-Metal Wireguard-Suspended-4000-No	Retrofit	Relamp and Driver 8 4' T5HO LED Type 40K	18
56	F-F32T8-8	Highbay-2X4-No Lens-Suspended-4000-No	Retrofit	Relamp and Remove Ballast 8 4' TLED Lamps 40K	45
57	F-F28T8-9	Linear Direct / Indirect-12 foot-Louver-Aircraft Cable-4100-No	Retrofit	Relamp and Remove Ballast 9 4' TLED Lamps 40K	12
				Total Number of Fixtures to be Replaced or Retrofitted	17,855

Refer to Appendix D – LED Lighting in the Investment Grade Audit for a complete line-by-line lighting audit.

Clarifications

- Except for secure facilities (MADF and JJC), standard T8 lighting fixtures will be a Type C conversion
- Except for 24/7 facilities (MADF, JJC, NVMCH), work will be completed on second shift
- Prompt and efficient access to facilities is required including necessary access for construction grade audit. Allowable work areas must be extensive enough for a crew of 4 to work continuously for a full workday. PG&E will work with the county FacOps teams on a weekly basis to develop work plans during installation. Coordination will be needed by the project team prior to and during performance of the work. Reasonable delays by the county would allow work to be performed in other facilities when necessary. It will be important for the county to provide 24 hours' notice on any changes to the agreed upon work plan to avoid unreasonable delays or impacts. PG&E has anticipated up to 3 unforeseen impacts during the course of construction at the MADF facility (i.e. planned area of work is in lockdown, area where work is taking place is put into lockdown for several hours). PG&E will plan to have an available fall back facility to perform installation work in the event of the MADF facility being unavailable for a planned workday. Excessive work stoppages and delays that deviate from mutually developed work plans could result in additional costs.
- PG&E will perform a construction grade audit during the beginning of the project and identify any rooms that will need to have county items moved to allow for installation. We do not anticipate needing to have furniture moved in office spaces. Rooms that have needed customer assistance in the past are typically storage spaces. PG&E will not take responsibility for moving County materials to allow for access in these cases.

Exclusions

The following items are excluded from this scope of work:

- Asbestos abatement or any related hazardous materials work
- Any new electrical panels, circuits, or light switching
- Concealed conditions
- Theatrical lighting or stage lighting
- Repairs to existing architectural conditions such as but not limited to: Stained/cracked ceiling tile, VCT/carpet/ athletic flooring scuffs, cracks and discoloration, existing damage to doorways, door frames, base plates etc., existing damage to walls and ceilings including existing discoloration
- Repairs to existing light supports, verification of the structural integrity of existing hanging methods
- Replacement or repair of compromised lighting fixture lens
- Stadium or athletic lighting unless listed in Appendix D
- Replacement or repair of existing stadium lights including poles and electrical wiring. Stadium lighting controls.
- Any crane lifts
- Coordination of lighting with security systems
- Low voltage wiring unless indicated otherwise



- BACnet integration
- Plug load control or HVAC zone control
- Fire alarm and communications integrations
- Lighting control gateways, integration to building automation system or any work that requires County IT engagement
- Any improper wiring of fixtures switches or circuits that pre-existed to the performance of this scope of work will be the customer's responsibility
- Cost for emergency power and battery backup ballasts above and beyond budgeted amount are not included and will be additional
- The cost for disposal of any ballast that contains PCBs
- Creating of reflected ceiling plans, electrical drawings or permitting
- Lighting not identified to be replaced in the provided lighting audit

DRAFT

ECM-2: Solar PV

This scope includes the installation of a solar PV carport canopy system located at multiple locations throughout the Administration Complex. This PV electrical system will provide on-site renewable generation at a meaningful level for the site's significant annual electricity usage and demand profile.

This solution utilizes available parking lot space for canopies, and targets multiple strategic locations for PV interconnection at existing distribution panels along on the 12 kV electrical loop.

Scope of Work

- Install 436.6 kWdc carport canopy solar PV system in the MADF Rear Parking Lots
- Install 1,030.5 kWdc carport canopy solar PV system in the West (public) Sheriff Building Lot
- Install 216 kWdc carport canopy solar PV system in the East (secure) Sheriff Building Lot
- Install 144 kWdc carport canopy solar PV system in the CMP Building Parking Lot
- Demolition of site obstructions including tree removal, light pole and light pole base removal and parking stop removal which interferes with the new installation.
- Trenching or boring as required for electrical and communication wire in conduit, including patching, backfill and repair.
- ADA upgrades including regrading, repaving, stairs, ramps, railings, retaining walls, and other hardscape features required to meet ADA code compliance as indicated on drawings.
- Obtain necessary design approvals and permits required for the Customer & the AHJ.
- Coordinate net-metering capable utility meter installation with electric utility.
- Furnish and install all electrical mounting equipment necessary for a complete system installation.
- Furnish and install all control system wiring and all electrical distribution wiring.
- Furnish and install equipment required for proper PV system grounding.
- Furnish and install solar panels and PV inverters per drawing and specs for system design.
- Furnish and install all DC and AC wiring, conduit and equipment.
- Furnish and install balance of system equipment required for system design.
- Design, furnish and install array lighting for canopy systems and integrate into existing lighting controls to be compliant with CA Title 24.
- Install Data Acquisition System (DAS) that monitors all solar PV performance and provide remote access to Owner.
- Cleanup and removal of debris.
- All extra materials per drawings and specifications.
- Provide warranty execution instructions to owner.
- Testing and commissioning between manufacturer and utility.
- Demonstration of system operation to owner.
- Provide system operating and maintenance training to owner.

Exclusions

The following items are excluded from this scope of work:

- Other hardscape/landscape features and any building upgrades required to meet ADA code compliance are not included and will be the owner's financial responsibility with proper approval.
- Removal and or disposal of contaminated soils, water, or similar.
- Hazardous material testing and remediation.
- Any additional scope or costs related to the Soil and Groundwater Management Plan dated April 18, 2017 from EBA Engineering.
- Environmental testing or permitting.
- Permitting fees for tree removal or replanting of trees.
- Rock excavation, unforeseen sub-terranean conditions, dewatering.
- SWPPP, any site prep, or finish grading work except drain inlet protection which will be provided.
- Asphalt replacement due to existing poor conditions as existing lots are past their useful lifespan.
- ADA required asphalt work will be integrated into existing asphalt conditions. The edge of the proposed asphalt work may become compromised by the existing asphalt conditions. PG&E excludes the results of the integration due to poor existing lot conditions at East- MADF lot.
- Full lot overlay and striping.
- Landscaping and irrigation not affected by this scope of work.
- Relocation of any existing underground and costs associated with damaged utilities not marked by utility or shown on customer provided as built drawings.
- Replacement of any existing electrical gear assumed currently in working order.
- Any Utility Required facilities upgrades or Interconnection fees, costs associated with service upgrades.
- Any EV capable or charging infrastructure as required by 2022 California Green Building Standards Code, effective July 1st 2024.

Assumptions

- PG&E assumes a laydown yard adjacent to the workspace will be provided for construction use for the entirety of the project.
- Minimum height of solar canopies to provide 13'6" clearance
- PG&E assumes there is a laydown yard to store Connex boxes for pv materials.
- PG&E has field-verified the existing integration points and validated their capacity to accept the newly proposed solar integration. PG&E assumes this gear is in proper functioning condition and meets existing code requirements.
- Foundation work above assumed 2000 psi soil bearing pressure and 14 ft Standard Depths.
- In order to minimize disruptions to the Customer, PG&E assumes complete construction access to no more than 2 sequenced locations at a given time. Reference sequencing plan.
- PG&E assumes work to be performed during standard business hours.
- Reuse of existing wheel stops.



ECM-3: BESS (Battery Energy Storage Systems)

Provide battery energy systems at both the County Admin Center and Los Guilicos sites for economic purposes.

Scope of Work

- Fuel cell yard:
 - Abandoned above grade fuel cell equipment to be removed.
 - Conduits and piping to be abandoned in place and capped above curb.
 - Existing hardscapes to remain.
 - Reuse of select existing electrical gear for integration of battery and solar pv systems.
- Furnish and Install Tesla Megapack II XL (963.6 kW / 1,927.2 kWh) at the County Administration Complex, including BESS Inverter, Battery Cabinets, Control and Communication Enclosures and Control System
- Furnish and Install BYD-Chess 240 kW / 516 kWh non-islanding BESS at the Los Guilicos Complex, including BESS Inverter, Battery Cabinets, Control and Communication Enclosures and Control System
- Furnish and install BESS Transformer, DER Panel Board, AC Switchgear, Breakers, Protective devices, Grounding and Bonding.
- Furnishing and installation of all required electrical conduit, wiring, breakers, and communication wiring for system operation.
- Trenching or boring as required for electrical and communication wire in conduit, including patching and repair.
- Furnishing and installation of concrete pad for BESS and associated equipment. It is anticipated to expand existing fuel cell pad for Tesla Megapack.
- Furnishing and installation of protective bollards.
- Design and obtain all permits required for the AHJ, including coordination with BESS manufacturer for necessary documentation.
- Coordination of interconnection agreement with local utility in parallel with solar PV.
- Coordination of testing and commissioning between manufacturer and utility.
- Demonstration of system operation to owner.

Assumptions

- Federal Investment Tax Credit (ITC) is estimated at 25.5% of the project cost, assuming tax-exempt financing is used. PG&E does not assume the risk of any ITC amount and it is the responsibility of the County to determine the amount.

Exclusions

The following items are excluded from this scope of work:

- Any hazardous material remediation associated with the demolition of fuel cell area
- Removal and or disposal of contaminated soils, water, or similar.
- Hazardous material testing and remediation



- Any additional scope or costs related to the Soil and Groundwater Management Plan dated April 18, 2017 from EBA Engineering
- Environmental testing or permitting
- Fencing
- Relocation of any existing underground and costs associated with damaged utilities not marked by utility or shown on customer provided as built drawings
- BMS integration
- Integration with existing generators
- Microgrid control or emergency backup power functionality
- Replacement of any existing electrical gear assumed currently in working order
- Any Utility-Required facilities upgrades or Interconnection fees
- Testing, calibration or modifications of any existing electrical breakers or monitoring equipment
- Any work on equipment with voltages higher than 480v with the exception of (1) set of CT/PTs at (1) 12KV meter.
- Any Electric Vehicle capable or Electric Vehicle Ready requirements required by future code changes

DRAFT



ECM-4: Water Conservation

This scope includes the recommissioning or replacing toilets, urinals, and sinks and recommissioning, rebuilding, or replacing flush valves to reduce water consumption.

Scope of Work

The scope of work for this measure includes the following:

- Domestic Fixtures
 - (673) – Adjust flush duration of existing custom-built, electronically controlled and actuated penal wet cell flush valves to reduce water use (flush valve “tuning”):
 - Includes a mockup of 46 valves (10% of the valves on existing stainless bowls proposed for retrofit) to confirm estimated post-retrofit flush rates and equipment performance; pre- and post-retrofit measurements taken during the mockup will be used to stipulate savings for this ECM for the remaining retrofits.
 - (417) existing wet cell fixtures are low flow or high efficiency stainless steel and require only valve tuning.
 - (210) existing wet cell fixtures are china, and the proposed scope includes both valve tuning and replacement of china fixture with stainless steel.
 - (54) – Remove and dispose of existing tank type toilet and replace with new 0.8 GPF toilet china (bowl and tank).
 - (111) – Remove and dispose of existing flushometer type toilet and replace with new 1.28 GPF toilet china and manual diaphragm flush valve.
 - (75) – Remove and dispose of existing water closet flush valve and replace with new 1.1/1.6 GPF manual diaphragm, dual flush valve. Existing china remains in place.
 - (40) – Remove and dispose of existing toilet flush valve diaphragm kit and replace with new 1.6 GPF flush valve diaphragm kit.
 - (58) – Remove and dispose of existing flushometer type urinal and replace with new 0.125 GPF urinal china and manual diaphragm flush valve.
 - (4) – Remove and dispose of existing urinal flush valve and replace with new 0.5 GPF manual diaphragm valve. Existing china remains in place.
 - (8) – Remove and dispose of existing urinal flush valve diaphragm kit and replace with new 1.0 GPF flush valve diaphragm kit.
 - (378) – Retrofit existing sink faucet with new aerator (remove and dispose of existing aerator, if applicable):
 - (291) 0.5 GPM aerators
 - (32) 1.0 GPM aerators
 - (55) 1.5 GPM aerators
 - (15) – Remove and dispose of existing faucet and replace with new 0.5 GPM faucet.
 - (99) – Remove and dispose of existing showerhead and replace with new 1.5 GPM head
 - (49) – Remove and dispose of existing Sloan Act-O-Matic showerhead and replace with new 1.5 GPM anchor plate head.



Table 5 - Domestic Plumbing Fixture Summary

Facility/Building	Toilet	Urinal	Faucet	Shower
Existing Fixture Totals	1,307	136	1,486	265
Proposed Retrofit Totals	953	70	393	99
No Change/Do Not Retrofit Totals	354	66	1,093	117

Table 6 - Proposed Domestic Fixture Retrofits

Toilets					Urinals			Faucets		Showers		
FVT	FVT-SS	RTCV	RPTT	RTVO	ITDK	RUCV	RUVO	IUDK	IRFA	REFT	RPSH	RPSH-Special
463	210	111	54	75	40	58	4	8	378	15	99	49

Table 7 – Domestic Fixture Retrofit Code Descriptions

Code	Description
EX	Existing Fixture Quantity
NR	No Retrofit
EX/NR	Entire Fixture Category Excluded from Retrofit Scope
FVT	Penal Fixture Flush Valve Tuning
FVTSS	Penal Fixture Flush Valve Tuning and Replace China with Stainless Steel
RTCV	Replace Flushometer Water Closet Fixture China and Valve
RPTT	Replace Tank Toilet
RTVO	Replace Toilet Valve Only
ITDK	Replace Diaphragm Kit Only (Water Closet)
RUCV	Replace Flushometer Urinal Fixture China and Valve
RUVO	Replace Urinal Valve Only
IUDK	Replace Diaphragm Kit Only (Urinal)
IRFA	Install/Replace Faucet Aerator
REFT	Replace Faucet
RPSH	Replace Showerhead
RPSH-Special	Replace Sloan Act-O-Matic with new anchored showerhead

- Kitchen Equipment
 - (5) – Install flow regulators on garbage disposer supply line:
 - (1) 3.0 GPM regulator
 - (2) 5.0 GPM regulators
 - (2) 8 GPM regulators



- (6) – Remove and dispose of existing kitchen pre-rinse nozzle and install new, 1.15 GPM nozzle.
- (1) – Remove and dispose of existing washdown nozzle and install new, 4 GPM nozzle.
- (13) – Retrofit existing sink faucet with new 1.0 GPM aerator (remove and dispose of existing aerator, if applicable).

Table 8 - Kitchen Equipment Retrofit Quantities

	Retrofit Code Key			
	GD	Install flow regulator on garbage disposer supply line		
	PRN	Replace kitchen pre-rinse nozzle		
	WDN	Replace washdown nozzle		
	IA	Install aerator on kitchen hand or prep sink		
Facility/Building	GD	PRN	WDN	IA
Sonoma County – all sites	5	6	2	15
Totals	5	6	1	13

Clarifications

- This ECM requires a test mock-up of the valve tuning to verify savings before the project proceeds. Results may impact overall savings. This includes doing a mock-up of the flush valve tuning on existing fixtures at MADF to confirm the adjusted timing can adequately clear the existing stainless-steel fixture. Pre- and post-retrofit measurements will be taken for the mock-up fixtures and will be used to confirm savings from the ECM.
- Allowable work areas must be extensive enough for a crew of 4 to work continuously for a full work day. Work stoppages could result in additional costs.
- Customer to provide temporary shutoff of utilities if necessary for the performance of the work, with such shutoffs coordinated between the parties to provide minimal disruption to the facility while maintaining the Construction Schedule.

Exclusions

The following items are excluded from this scope of work:

- Abatement, cleanup, control, disposal or removal of asbestos or other hazardous materials
- Supply of 4 x 120V outlet for ozone generators
- Carrier bolt work, tile work, and urinal partition work
- Any and all ADA bathroom partitions, grab bars, extensions, sink faucet actuators, piping insulation, or other ADA requirements.
- Repair or replacement of any defective components on equipment that interferes with or prevents normal operation of water and steam conservation systems, e.g., properly functioning piping distribution, valving, strainers and drain systems, proper operation of boilers and pumps, etc.



- Replacement of other defective plumbing components not identified in Investment Grade Audit Appendix I – Water Conservation
- Furnishing any equipment, material, labor, or performing special tests recommended or required by insurance companies.
- Cast iron flanges are excluded from this scope of work

DRAFT

ECM-5: Heat Pump Domestic Hot Water (DHW)

This measure includes the replacing existing gas water heater with tank type heat pump water heaters.

Table 9 - Proposed Domestic Water Heater Details

Petaluma Veterans Hall	Cloverdale Veterans Hall	Animal Services	General Services Heavy Fleet
120 gallons	120 gallons	No proposed scope, demand will exceed heat pump capacity	(1) 50 gallon
179 gallons, first hour delivery	179 gallons, first hour delivery	NA	65 gallons, first hour delivery
113 GPH recovery	113 GPH recovery	NA	NA

Scope of Work
Metering

- Monitor domestic hot water consumption for one month to validate heat pump sizing for Petaluma and Cloverdale sites.

Water Heater

- Drain, remove, and dispose of existing water heaters
- Furnish and install new Heat Pump Water Heater
- Furnish and install new drain pan
- Furnish and install new earthquake strap
- Furnish and install new TPR valve and pipe

Plumbing

- Furnish and install copper pipe
- Furnish and install PVC drainpipe
- Furnish and install all other copper, brass, and miscellaneous fittings around water heater location
- Furnish and install 5' of insulation on Hot and Cold lines attached to water heater

Electrical

- Furnish and install electrical conduit and conductors to existing electrical subpanel



Clarifications

- Sonoma County to work with the Subcontractor GK-12 team to receive water heater incentives. Water heater scope needs to be performed in 2024 for incentives to be valid. PG&E takes no assumption of risk on incentive amount.

Exclusions

The following items are excluded from this scope of work:

- Upgrade of existing electrical service, main switchboards, and subpanels
- Connection to subpanel more than 50' away from water heater
- Hazardous material abatement
- Addition of hot water recirculation loops
- Integration into building management system
- Repair or installation of floor drain
- Installation of drain piping further than 20' from proposed water heater location

ECM-6: CMP Chiller Schedule Update Review and Confirmation***Scope of Work***

- Confirm that adjustments to the TES system schedule to align with PG&E's new peak demand period, which now occurs between 4:00PM and 9:00PM **for all seven days of the week** (including weekends) is active and that the CHW storage tanks are providing cooling during peak utility demand periods.

Clarifications

- Expected savings for this measure is \$125,000. \$62,500 of these savings have been utilized in the SRVH Implementation Project. The balance of savings, totaling \$62,500 are included in this project.
- Continued access to CMP electrical meter interval data required during M&V period.
- CMP operator support on implementing schedules. If further changes need to be made, facility staff to be available to work with PG&E/Subcontractor staff. Schedules must keep chillers off during peak periods to avoid peak demand charges.
- Read only access to CMP controls web interface or support from Sonoma Facility staff to access trends and reporting available in BMS.

Exclusions

The following items are excluded from this scope of work:

- Software upgrades of WebCtrl
- CMP retrocommissioning

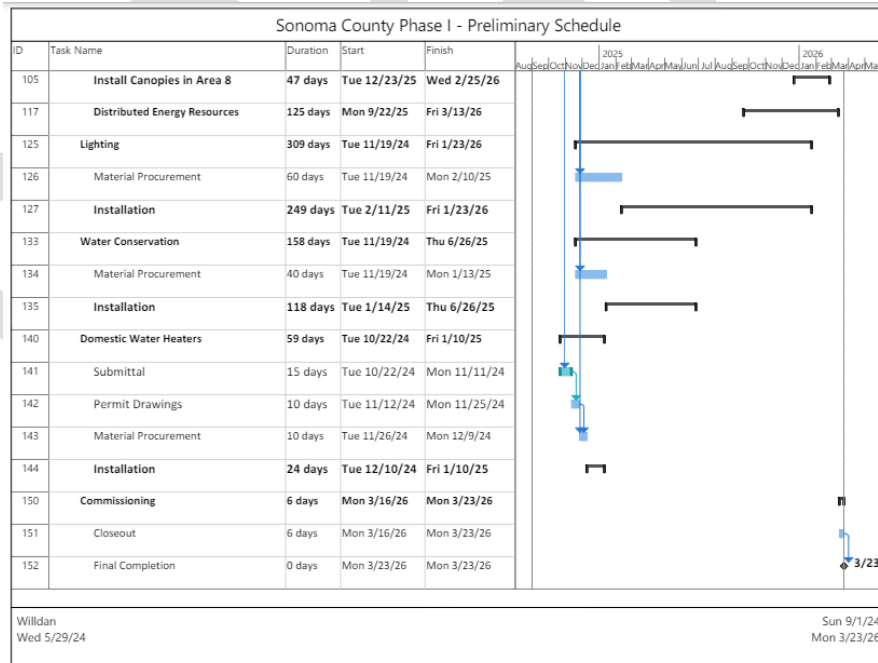
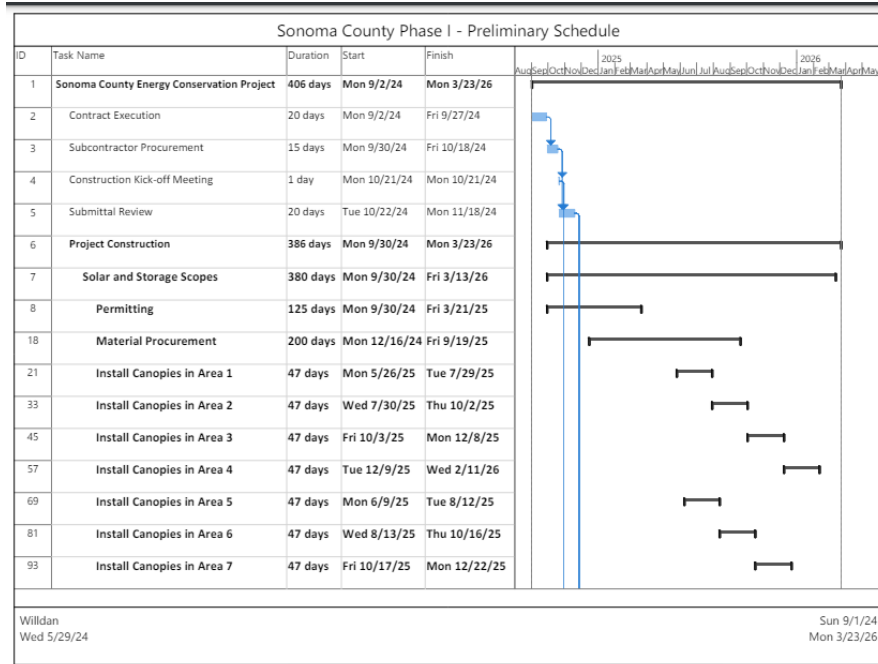


**ATTACHMENT 1 TO EXHIBIT B
INVESTMENT GRADE AUDIT REPORT**

DRAFT



**EXHIBIT C
ESTIMATED PROJECT SCHEDULE**



A detailed schedule describing the scope of work, areas included, and time frame will be provided following the kick-off meeting.



**EXHIBIT D
SCHEDULE OF VALUES**

Description of Work	Original Scheduled Value	Amount Previously Billed	This Period		Totals		Balance To Complete	Retention
			In Place	Stored Materials	Billed to Date	%		
Investment Grade Audit	\$ 247,500	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Energy Conservation Assessment	\$ 27,500	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
NTE fee	\$ 581,556	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Project Mobilization	\$ 2,705,310	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Solar PV, all, permit application start	\$ 100,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Service Building Parking Lot Solar PV								
Procure Solar Panels	\$ 610,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Electrical Equipment	\$ 225,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 1.1	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 1.2	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel L	\$ 170,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 1.1	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 1.2	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel L	\$ 225,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Solar Panel Arrays	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install conduits	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pull Wire	\$ 60,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Commissioning	\$ 19,137	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
West Sheriff Parking Lot Solar PV								
Procure Solar Panels	\$ 1,350,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Electrical Equipment	\$ 502,105	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.1	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.2	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.3	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.4	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.5	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.6	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.7	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 2.8	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.1	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.2	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.3	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.4	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.5	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.6	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.7	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 2.8	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Solar Panel Arrays	\$ 400,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Conduits	\$ 300,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pull Wire	\$ 250,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Commissioning	\$ 26,604	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
East Sheriff Parking Lot Solar PV								
Procure Solar Panels	\$ 200,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Electrical Equipment	\$ 49,578	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 3.1	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 3.2	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 3.3	\$ 175,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 3.1	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 3.2	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 3.3	\$ 175,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Solar Panel Arrays	\$ 25,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Conduits	\$ 25,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pull Wire	\$ 10,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Commissioning	\$ 5,815	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CMP Building Solar PV								
Procure Solar Panels	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Electrical Equipment	\$ 62,496	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Carport Steel 4.1	\$ 200,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Carport Steel 4.1	\$ 200,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Solar Panel Arrays	\$ 85,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Conduits	\$ 10,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pull Wire	\$ 10,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Commissioning	\$ 2,881	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -



CMP Building BESS								
Procure Battery Equipment	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Electrical Equipment	\$ 461,217	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Demo existing fuel cell area	\$ 300,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Trench for conduits	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Ug. conduits	\$ 150,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Backfill trench	\$ 100,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Battery Equipment	\$ 290,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install metering	\$ 50,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install above ground conduits	\$ 50,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pull Wire	\$ 50,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Commissioning	\$ 31,352	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Los Guilicos BESS								
Procure Battery Equipment	\$ 600,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Procure Electrical Equipment	\$ 226,486	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Trench for conduits	\$ 60,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Ug. conduits	\$ 60,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Backfill trench	\$ 45,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pour equipment pad	\$ 45,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install Battery Equipment	\$ 60,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Install above ground conduits	\$ 40,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Pull Wire	\$ 30,000	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Commissioning	\$ 13,720	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Lighting								
2300 & 2350 Professional Dr., installation	\$ 52,574	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
2300 & 2350 Professional Dr., material	\$ 38,071	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Agricultural Bldg, installation	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Agricultural Bldg, material	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Animal Services, installation	\$ 75,269	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Animal Services, material	\$ 54,505	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Central Mechanical Plant, installation	\$ 18,867	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Central Mechanical Plant, material	\$ 13,662	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Classroom A-L, installation	\$ 34,399	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Classroom A-L, material	\$ 24,910	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Cloverdale Park & Ride, installation	\$ 4,231	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Cloverdale Park & Ride, material	\$ 3,063	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Cloverdale Veterans Bldg, installation	\$ 25,990	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Cloverdale Veterans Bldg, material	\$ 18,820	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CMP Trailer, installation	\$ 805	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CMP Trailer, material	\$ 583	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Cotati Veterans Memorial, installation	\$ 12,583	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Cotati Veterans Memorial, material	\$ 9,112	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Court's School, installation	\$ 3,780	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Court's School, material	\$ 2,737	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Discovery Center, installation	\$ 2,381	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Discovery Center, material	\$ 1,724	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
EC Kraft Bldg, installation	\$ 11,488	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
EC Kraft Bldg, material	\$ 8,319	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Facilities Operations Office, installation	\$ 5,195	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Facilities Operations Office, material	\$ 3,762	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Fairgrounds Office, installation	\$ 55,664	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Fairgrounds Office, material	\$ 40,308	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Fairgrounds Rodeo Sport Lighting, installation	\$ 18,116	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Fairgrounds Rodeo Sport Lighting, material	\$ 13,118	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Family Justice Center, installation	\$ 95,132	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Family Justice Center, material	\$ 68,889	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Finley Hall, installation	\$ 18,116	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Finley Hall, material	\$ 13,118	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Firing Range, installation	\$ 16,070	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Firing Range, material	\$ 11,637	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Garden Bldg, installation	\$ 17,127	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Garden Bldg, material	\$ 12,403	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Garrett Bldg, installation	\$ 20,092	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Garrett Bldg, material	\$ 14,549	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
General Services Heavy Fleet, installation	\$ 1,394	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
General Services Heavy Fleet, material	\$ 1,009	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Grace Pavilion, installation	\$ 63,569	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Grace Pavilion, material	\$ 46,033	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -



Hall of Flowers, installation	\$ 11,401	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Hall of Flowers, material	\$ 8,256	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Hall of Justice, installation	\$ 282,180	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Hall of Justice, material	\$ 204,337	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
HOJ Trailer, installation	\$ 4,130	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
HOJ Trailer, material	\$ 2,991	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
House #2, installation	\$ 7,241	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
House #2, material	\$ 5,243	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
House #4, installation	\$ 7,604	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
House #4, material	\$ 5,506	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
House #5, installation	\$ 8,164	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
House #5, material	\$ 5,912	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Information System, installation	\$ 46,755	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Information System, material	\$ 33,857	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Juvenile Justice Center, installation	\$ 364,955	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Juvenile Justice Center, material	\$ 264,278	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, East Quad installation	\$ 128,388	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, East Quad material	\$ 92,971	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, Expansion installation	\$ 112,108	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, Expansion material	\$ 81,181	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, North Quad installation	\$ 413,088	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, North Quad material	\$ 299,133	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, South Quad installation	\$ 296,756	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, South Quad material	\$ 214,892	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, West Quad installation	\$ 190,830	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Jail, West Quad material	\$ 138,188	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Service Bldg, installation	\$ 3,852	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
MADF Service Bldg, material	\$ 2,789	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Maintenance Bldg, installation	\$ 12,390	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Maintenance Bldg, material	\$ 8,972	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
New Valley of the Moon Children's Home, installation	\$ 117,012	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
New Valley of the Moon Children's Home, material	\$ 84,733	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
New VMCH Admin Phase 3, installation	\$ 176,768	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
New VMCH Admin Phase 3, material	\$ 128,005	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Petaluma Veterans Memorial, installation	\$ 67,622	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Petaluma Veterans Memorial, material	\$ 48,967	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sebastopol Veterans Memorial, installation	\$ 32,546	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sebastopol Veterans Memorial, material	\$ 23,568	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sheriff Bldg, installation	\$ 262,064	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sheriff Bldg, material	\$ 189,770	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sheriff Evidence Bldg, installation	\$ 9,718	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sheriff Evidence Bldg, material	\$ 7,037	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sierra Dorm #5, installation	\$ 37,878	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sierra Dorm #5, material	\$ 27,429	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sonoma Veterans Memorial, installation	\$ 35,389	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Sonoma Veterans Memorial, material	\$ 25,626	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Spud Point Marina Office, installation	\$ 3,904	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Spud Point Marina Office, material	\$ 2,827	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Yacht Club, installation	\$ 22,902	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Yacht Club, material	\$ 16,584	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Youth Camp Main Bldg, installation	\$ 19,158	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Youth Camp Main Bldg, material	\$ 13,873	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Youth Camp Shop, installation	\$ 16,271	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Youth Camp Shop, material	\$ 11,783	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Youth Camp Warehouse, installation	\$ 6,299	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Youth Camp Warehouse, material	\$ 4,561	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Water Conservation								
2300 & 2350 PROFESSIONAL DR, installation	\$ 20,532	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
2300 & 2350 PROFESSIONAL DR, material	\$ 13,688	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Animal Services, installation	\$ 7,167	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
Animal Services, material	\$ 4,778	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
BOA Building, installation and material	\$ 549	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CENTRAL MECHANICAL PLANT (CMP), installation	\$ 5,834	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CENTRAL MECHANICAL PLANT (CMP), material	\$ 3,890	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CLASSROOM A-L, installation	\$ 16,922	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CLASSROOM A-L, material	\$ 11,281	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CLOVERDALE VETERANS BUILDING, installation	\$ 15,778	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CLOVERDALE VETERANS BUILDING, material	\$ 10,518	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CLOVERDALE POOL, installation	\$ 8,048	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -
CLOVERDALE POOL, material	\$ 5,365	\$ -	\$ -	\$ -	\$ -	0.00%	\$ 0	\$ -



COTATI VETERANS MEMORIAL, installation	\$	14,519	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
COTATI VETERANS MEMORIAL, material	\$	9,679	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
COURTS SCHOOL, installation and material	\$	137	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Discovery center, installation and material	\$	961	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
EOC BUILDING, installation	\$	8,170	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
EOC BUILDING, material	\$	5,446	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
FACILITIES OPERATIONS OFFICE, installation	\$	3,623	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
FACILITIES OPERATIONS OFFICE, material	\$	2,415	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- EC Kraft Building, installation	\$	14,683	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- EC Kraft Building, material	\$	9,788	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Finley Hall, installation	\$	10,769	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Finley Hall, material	\$	7,179	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Garden Building, installation	\$	27,182	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Garden Building, material	\$	18,121	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Garrett Building, installation	\$	7,804	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Garrett Building, material	\$	5,202	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Grace Pavilion, installation	\$	20,522	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Grace Pavilion, material	\$	13,682	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Linwood Ave Restrooms, installation	\$	26,301	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Linwood Ave Restrooms, material	\$	17,534	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Sara lee and Richard's Barn (New Bldg.), installation	\$	5,809	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Sara lee and Richard's Barn (New Bldg.), material	\$	3,873	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Showcase Kitchen, installation	\$	11,076	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Fairgrounds- Showcase Kitchen, material	\$	7,384	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
FAMILY JUSTICE CENTER (FJC), installation	\$	13,660	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
FAMILY JUSTICE CENTER (FJC), material	\$	9,107	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
General Services Heavy Fleet, installation	\$	330	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
General Services Heavy Fleet, material	\$	220	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
HALL OF JUSTICE, installation	\$	23,666	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
HALL OF JUSTICE, material	\$	15,777	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
HOUSE #2, 3, 4, 5 installation	\$	17,233	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
HOUSE #2, 3, 4, 5 material	\$	11,488	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
INFORMATION SYSTEMS, installation	\$	10,122	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
INFORMATION SYSTEMS, material	\$	6,748	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
JUVENILE JUSTICE CENTER, installation	\$	39,719	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
JUVENILE JUSTICE CENTER, material	\$	26,479	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, East Quad, installation & tuning	\$	264,646	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, East Quad, material	\$	171,747	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, North Quad, installation & tuning	\$	183,556	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, North Quad, material	\$	82,463	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, South Quad, installation & tuning	\$	118,055	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, South Quad, material	\$	76,121	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, West Quad, installation & tuning	\$	252,452	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, West Quad, material	\$	140,159	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, Expansion, installation & tuning	\$	376,541	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MADF Jail, Expansion, material	\$	275,561	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MAINTENANCE BUILDING, installation	\$	4,859	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
MAINTENANCE BUILDING, material	\$	3,239	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
NEW VALLEY OF THE MOON CHILDREN'S HOME, installation	\$	7,602	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
NEW VALLEY OF THE MOON CHILDREN'S HOME, material	\$	5,068	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
NEW VMCH ADMINISTRATION PHASE 3, installation	\$	8,130	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
NEW VMCH ADMINISTRATION PHASE 3, material	\$	5,420	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
OCCIDENTAL COMMUNITY CENTER, installation	\$	15,304	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
OCCIDENTAL COMMUNITY CENTER, material	\$	10,202	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
PETALUMA VETERANS MEMORIAL, installation	\$	23,264	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
PETALUMA VETERANS MEMORIAL, material	\$	15,510	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SANTA ROSA VETERANS MEMORIAL, installation	\$	23,140	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SANTA ROSA VETERANS MEMORIAL, material	\$	15,427	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SEBASTOPOL VETERANS MEMORIAL, installation	\$	14,566	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SEBASTOPOL VETERANS MEMORIAL, material	\$	9,711	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SHERIFF BUILDING, installation	\$	20,797	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SHERIFF BUILDING, material	\$	13,865	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SIERRA DORM #5, installation	\$	14,318	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SIERRA DORM #5, material	\$	9,545	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SONOMA VETERANS MEMORIAL, installation	\$	19,976	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SONOMA VETERANS MEMORIAL, material	\$	13,317	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
SPUD POINT MARINA OFFICE, installation and material	\$	937	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Yacht club, installation	\$	6,732	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Yacht club, material	\$	4,488	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
YOUTH CAMP, material and installation	\$	8,681	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Heat pump water heaters										
Petaluma Vets, material	\$	13,143	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Petaluma Vets, installation	\$	19,714	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Heavy Fleet Building, material	\$	6,005	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Heavy Fleet Building, installation	\$	9,007	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Cloverdale Vets, material	\$	14,801	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
Cloverdale Vets, installation	\$	22,201	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -
TOTAL	\$	27,053,100	\$ -	\$ -	\$ -	\$ -	0.00%	\$	0	\$ -

**EXHIBIT E
SUBSTANTIAL COMPLETION FORM**

THIS CERTIFICATE OF SUBSTANTIAL COMPLETION is executed in respect of certain Implementation Work performed pursuant to the Sustainable Solutions Turnkey Implementation Project Work Order, effective as of _____ (the "WO") issued by the County of Sonoma ("Customer"). The WO was issued under the Master Service Agreement between the ("Customer") and Pacific Gas and Electric Company ("PG&E"), dated October 20, 2021. The WO relates to provision of certain energy conservation services and the implementation of a Project consisting of certain energy conservation measures ("ECMs" or "Project measures") across multiple County facilities, as set forth in the WO. Each capitalized term not defined herein shall have the meaning ascribed to it in the WO.

The Customer and PG&E, having reviewed the Implementation Work that is the subject of this Certificate to determine that such Work has achieved Substantial Completion in accordance with the WO and all applicable modifications, hereby acknowledge and agree that:

1. The ECM(s) listed below are Substantially Complete in accordance with the WO and any modifications thereto such that it is generally capable of being used for or achieving the purpose intended by the WO, in each case as of the date specified below for each ECM:

<u>ECM</u>	<u>Substantial Completion Date</u>
ECM _____ - _____	
ECM _____ - _____	

2. On and after the Substantial Completion Date the Customer will assume, as to the entire ECM, complete responsibility for (i) the ECM's operation, maintenance, and repair, (ii) damage to or destruction of the ECM, and (iii) the ECM's security and insurance coverage. The Substantial Completion Date is also the date of commencement of applicable warranties required by the WO.

County of Sonoma

By: _____
 Name: _____
 Title: _____

Acknowledged:

Pacific Gas & Electric Company

By: _____
 Name: _____
 Title: _____

Acknowledged:

Willdan

By: _____
 Name: _____
 Title: _____