

d. Equipment - CDP 31.10

PLEASE READ!!!

Equipment is generally defined as an item with an acquisition cost greater than \$5,000 and a useful life expectancy of more than one year. Further definitions can be found at 10 CFR 600 found on the PMC Recipient Resources Forms page at <https://www.eere-pmc.energy.gov/Forms.aspx#regs>.

List all proposed equipment below, providing a basis of cost such as vendor quotes, catalog prices, prior invoices, etc., and briefly justifying its need as it applies to the Statement of Project Objectives. If it is existing equipment, and the value of its contribution to the project budget is being shown as cost share, provide logical support for the estimated value shown. If it is new equipment which will retain a useful life upon completion of the project, provide logical support for the estimated value shown. **(Please provide back-up documentation as a separate attachment, i.e. vendor quotes, catalog prices, etc.)**

For equipment over \$50,000 in price, also include a copy of the associated vendor quote or catalog price list.

Add rows as needed. If rows are added, formulas/calculations may need to be adjusted by the preparer.

| General Category of Equipment | Qty | Unit Cost | Basis of Cost | Justification of need | Equipment Estimated Cost | Federal Share of Cost | Recipient Share of Cost | Source and Type of Cost Share |
|---|-----|-----------|--|--|--------------------------|-----------------------|-------------------------|--|
| Task 1 | | | | | | | | |
| Solar Panel Materials - 63rd Water Treatment Plant minus rebate | 1 | \$100,000 | | | \$159,000 | \$0 | \$159,000 | Lease Purchase with McKinstry |
| Task 2 | | | | | | | | |
| Solar Panel Materials - Municipal Service Center minus rebate | 1 | \$100,000 | | | \$174,000 | \$0 | \$174,000 | Lease Purchase with McKinstry |
| Task 3 | | | | | | | | |
| Purchase OEM electric vehicles/PHEVs | 3 | \$24,457 | MRSP of Nissan Leaf minus \$7,500 federal tax credit | To have vehicles to test the EVSE infrastructure and charging infrastructure employed. | \$73,370 | \$73,370 | \$0 | Purchase 3 Nissan Leaf all electric vehicles or equivalent to use to test EVSE infrastructure and charging with the Smart Grid. Electric vehicles will be purchased off of the Colorado State Bids, anticipated to be awarded in January 2012. |
| Total | | | | | \$406,370 | \$73,370 | \$333,000 | |

Additional Explanations/Comments (as necessary)

2012 Nissan Leaf MSRP = \$35,200 - \$7,500 = \$27,700. The vehicle purchased will be selected through the Colorado State Bid - see Colorado State Purchasing website at <http://www.gssa.state.co.us/PriceAwd.nsf/Published%20Agreements%20by%20Category%20for%20Web?OpenView&Start=1&Count=200&Expand=50#50>.

f. Contractual - CDP 31.10

PLEASE READ!!!

The entity completing this form must provide all costs related to sub-recipients, vendors, contractors, consultants and FFRDC partners in the applicable boxes below.

Sub-recipients (partners, sub-awardees):
 For each sub-recipient with total project costs of \$100,000 or more, a separate SF-424A budget and PMC123.1 budget justification form **MUST** be submitted. These sub-recipient forms may be completed by either the sub-recipients themselves or by the preparer of this form. The budget totals on the sub-recipient's forms must match the sub-recipient entries below.

The preparer of this form need only provide further support of the completed sub-recipient budget forms as they deem necessary. The support to justify the budgets of sub-recipients with estimated costs less than \$100,000 may be in any format, and at a minimum should provide what Statement of Project Objectives task(s) are being performed, the purpose/need for the effort, and a basis of the estimated costs that is considered sufficient for DOE evaluation.

Vendors (includes contractors and consultants):
 List all vendors, contractors and consultants supplying commercial supplies or services used to support the project. The support to justify vendor costs (in any amount) should provide the purpose for the products or services and a basis of the estimated costs that is considered sufficient for DOE evaluation.

Federal Research and Development Centers (FFRDCs):
 For FFRDC partners, award recipient will provide a Field Work Proposal (if not already provided with the original application), along with the FFRDC labor mix and hours, by category and FFRDC major purchases greater than \$25,000, including Quantity, Unit Cost, Basis of Cost, and Justification. The award recipient may allow the FFRDC to provide this information directly to DOE.

Add rows as needed. If rows are added, formulas/calculations may need to be adjusted by the preparer.

| Task | Sub-Recipient Name/Organization | Purpose | Sub-Recipient Estimated Cost | Federal Share of Cost | Recipient Share of Cost | Source and type of Cost Share Funds |
|--------|---------------------------------|---------|------------------------------|-----------------------|-------------------------|-------------------------------------|
| Task 1 | | | \$0 | \$0 | \$0 | |
| | | | \$0 | | | |
| | | TOTAL | \$0 | \$0 | \$0 | |

| | Vendor Name/Organization | Product or Service, Purpose/Need and Basis of Cost (Provide additional support at bottom of page as needed) | Vendor Estimated Cost | Federal Share of Cost | Recipient Share of Cost | Source and type of Cost Share Funds |
|---|--------------------------|---|-----------------------|-----------------------|-------------------------|---|
| Task 1 Purchase and install charging stations | Eaton | Purchase and install EV charging stations and related infrastructure at various locations. | \$157,180 | \$157,180 | \$0 | GSA Contract No. GS-07F-9460G |
| Task 2 Purchase and install battery storage systems | EETrex | To install and test battery storage systems at 2 locations with solar PV installations | \$110,000 | \$110,000 | \$0 | See sole source justification |
| Task 3 install Solar PV systems | McKinstry | Install 2 new solar PV systems that will feed public charging stations | \$167,000 | \$0 | \$167,000 | City Lease Purchase Contract with McKinstry awarded through RFP |
| Task 4 Building Automation System Controls | McKinstry | Produce software and controls to link EV charging with smart grid and building controls | \$71,400 | \$71,400 | \$0 | GSA Catalog No. GS-21F-0140V |
| Task 5 Power Tagging Systems | Power Tagging | To provide controls to EVSE infrastructure for impacts to the electrical grid for protection of substations and transformers. | \$50,000 | \$50,000 | \$0 | See sole source justification |
| Task 6 Solar Tree Installations | Zam Energy | To purchase and install a solar tree at a parking garage to demonstrate EV charging with just solar power. | \$35,000 | \$35,000 | \$0 | See sole source justification |
| Task 7 Car-Sharing | Ego CarShare | To provide the EV to an existing car sharing program so electric vehicle can be used by multiple staff and possibly offered for public use during non-duty times. | \$1,500 | \$1,500 | \$0 | See quotes |
| | | TOTAL | \$592,080 | \$425,080 | \$167,000 | |

| | FFRDC Name/Organization | Purpose | FFROC Estimated Cost | Federal Share of Cost | Recipient Share of Cost | Source and type of Cost Share Funds |
|--------|-------------------------|---------|----------------------|-----------------------|-------------------------|-------------------------------------|
| Task 1 | | | \$0 | | | |
| | | TOTAL | \$0 | \$0 | \$0 | |

Additional Explanations/Comments (as necessary)

Task 1 based on install costs at one location for 2 charging stations - see Eaton SF424 where costs were estimated for other locations based on actual costs for installation at one location. For Task 3, solar PV systems are at 2 city facilities - the 63rd Water Treatment Plant and the Municipal Service Center, Bldg A, and are based on final construction costs. The McKinstry contract was awarded through a Request for Proposal for an Energy Service Company through 13 pre-qualified vendors from the Colorado State Governors Energy Office. For Task 6, see SF424 for Zam Energy with quote. For Task 7, see attached quote from Ego Carshare.

5. PRICING

Eaton, a market leading electrical equipment manufacturer and service provider, has been awarded FSS Schedule Contracts by the General Services Administration – Federal Supply Service (GSA-FSS) for products and services. To simplify the contracting process and performance of the proposed scope of work, this proposal is bid to Eaton GSA Contract No. GS-07F-9460G.

| Contract SIN # | Description | Labor Days | Price |
|--------------------------------------|--|---------------|-----------------|
| EQUIPMENT AND MAJOR MATERIALS | | | \$ 4,896 |
| 412-99 | Electrical Vehicle Charging Stations (2) | N/A | \$ 5,476 |
| SUBCONTRACTORS | | | |
| 412-21 | Subcontractor materials | N/A | \$ 12,181 |
| 412-51 | Electrical Contractor Installation | N/A | \$ 9,211 |
| LABOR DRIVEN COMPONENTS | | | |
| 412-50 | Project Management | 4.8 | \$5,430 |
| 412-50 | Equipment Startup Services | 1.4 | \$1,584 |
| OPEN MARKET COMPONENTS | | | |
| N/A | Per Diems | N/A | \$ 854 |
| Subtotals: | | 6.1 | \$34,176 |

Per Diems are in accordance GSA Rates for Boulder, Colorado (Boulder / Broomfield County)