



Annotated Bid Specification: Small Scope Projects

This document, adapted from [ZEF Energy](#), provides an example bid specification for small scope projects (like workplace charging installations). Pricing and added context provided is for example purposes only and may vary.

Workplace Charging Project (Small Scope Example)	
Upfront Costs	Unit Price
Hardware Costs	
Level 2 40A Wall-Mounted, 1 Plug unit	\$2,500
Level 2 40A Pedestal Charger, 2 Plugs (40 amps per plug)	\$9,000
Charger Branding, Per charger	\$150
Site Design	
Site Assessment	\$3,000
Design Engineering	\$8,000
Project Management	\$17,000
Installation	
Civil Works	\$24,000
Testing and Commissioning	\$1,500
Power Distribution Panel	\$7,000
Bulk Materials	\$15,000
Operational Costs	
Networking Costs	
Service and Maintenance, Per year per plug (5 years)	\$350
Total Cost	\$86,500

Wall-mounted chargers do not fit every use case.

Chargers typically include dual ports. When deciding on hardware, consider pricing and site spacing. Pedestal chargers require trenching to the power source and parking barriers to protect the hardware from unit damage.

This line item is not needed unless required by internal procedure or legislation. Consider skipping if you are going with the most cost-effective project.

Consider an Engineer-Procure-Construct (EPC) contract or use a pre-qualified turnkey vendor.

Local governments may be able to save on civil works if using city utility workers rather than contracting out.

Cables, conduits, etc. Power panels and materials will usually be needed, but total costs vary significantly by project.

This can be included in the hardware cost and includes the first five years of operation.

Annotated Bid Specification: Medium Scope Projects

This document, adapted from [ZEF Energy](#), provides an example bid specification for medium scope projects (like community charging hubs). Pricing and added context provided is for example purposes only and may vary.

Community Charging Hub (Medium Scope Example)	
Upfront Costs	Unit Price
Hardware Costs	
Level 2 40A Pedestal Charger, 2 Plugs	\$10,000
Double Power Cabinet, 400kW Max capacity	\$82,000
Dual CCS Plug Satellite, 2 Plugs, CC and RFID reader	\$27,000
Power Modules	\$18,000
400 kVa Minisub Cabinet	\$18,000
Site Design	
Site Assessment	\$3,000
Design Engineering	\$9,000
Project Management	\$33,000
Installation	
Civil Works	\$69,000
Testing and Commissioning	\$3,400
Transformer/Power Distribution Panel	\$36,000
Bulk Materials	\$41,000
Operational Costs	
Networking Costs	
Service and Maintenance, Per year per plug (5 years)	\$600
Total Cost	\$350,000

Pedestal chargers require trenching to the power source and parking barriers to protect the hardware from unit damage. Includes credit card (CC) and RFID reader.

Cabinet is installed with 50kW and 250kW worth of power modules added for a total charging capacity of 300kW.

Consider Sourcewell cooperative purchasing that has already negotiated better pricing for power electronics

Includes step-down transformers for Level 2 charging equipment. The utility metering panel and associated sockets should be mounted on this cabinet.

Consider an Engineer-Procure-Construct (EPC) contract or use a pre-qualified turnkey vendor.

Local governments may be able to save on civil works if using city utility workers rather than contracting out.

Cables, conduits, etc. Power panels and materials will usually be needed, but total costs vary significantly by project.

This can be included in the hardware cost and includes the first five years of operation.

Annotated Bid Specification: Large Scope Projects

This document, adapted from [ZEF Energy](#), provides an example bid specification for large scope projects (like public bus charging depots). Pricing and added context provided is for example purposes only and may vary.

Public Bus Charging Depot (Large Scope Example)	
Upfront Costs	Unit Price
Hardware Costs	
Level 2 100A Wall-Mounted, 1 Plug	\$4,000
Triple Power Cabinet, 600kW	\$119,000
Dual CCS Plug Satellite, 2 Plugs, CC and RFID reader	\$27,000
Power Modules	\$18,000
Charger Branding, Per charger	\$100
Site Design	
Site Assessment	\$6,000
Design Engineering	\$25,000
Project Management	\$148,000
Installation	
Civil Works	\$132,000
Testing and Commissioning	\$10,000
Switchgear/Transformer/Power Distribution Panel	\$50,000
Bulk Materials	\$130,000
Operational Costs	
Networking Costs	
Troubleshooting costs for warranty related field service	\$350
Maintenance Service, Per year per plug (4 plugs per year)	\$8,560
Total Cost	\$678,010

Pedestal chargers require trenching to the power source and parking barriers to protect the hardware from unit damage. Includes credit card (CC) and RFID reader.

Cabinet is installed with 50kW and 550kW worth of power modules added for a total charging capacity of 600kW.

Consider Sourcewell cooperative purchasing that has already negotiated better pricing for power electronics

Consider an Engineer-Procure-Construct (EPC) contract or use a pre-qualified turnkey vendor.

Local governments may be able to save on civil works if using city utility workers rather than contracting out.

Cables, conduits, etc. Power panels and materials will usually be needed, but total costs vary significantly by project.

This can be included in the hardware cost and includes the first five years of operation.