



CAD Design and **Coastal Electrical Solutions** are separate solar companies organized jointly to provide turn-key design and integration for renewable energy systems. All engineering services, studies and designs provided will strictly be conducted without any bias or inclination to favor a specific manufacturer.

Scope of Work

- Our scope of work is outlined below as a comprehensive turn-key engineering service from start to completion of the solar project:

Preliminary Design Scope of Work

- We will review all pertinent existing and future site plans, electrical service and mechanical design documentation to determine project's global solar power production capability
- We will evaluate the existing service and power distribution system and the associated grid connection interface requirements.
- We will survey the project site and consult with our client's staff to establish locations of the solar power co-generation platforms.
- We will conduct tentative topological study of the available solar power platforms most suitable for solar power co-generation.
- We will evaluate deployment and best use of various commercially available solar photovoltaic power co-generation system technologies.
- We will provide preliminary economic analysis of most promising and cost effective technology alternatives best suited for the project.
- We will provide projected calculations for the solar power electric energy contribution.
- We will provide assistance to our client's staff with completion and filing of rebate application forms.

Integration

- We will deploy the design specifications and adhere to all local compliance codes.

Final Design

- Final design scope of engineering services will consist of platform shading analysis, detailed photovoltaic system design and preparation of complete set of electrical and solar power design documentation.
- We will prepare a job-specific solar power co-generation system design specification.
- We will provide periodic project integration coordination.
- We will assist our client with construction management, inspection, commissioning, startup test review and coordination.
- We will provide our client's designated staff assistance with operational training education.

System Maintenance

- We will provide solar system maintenance instructions to host customer. System maintenance is essential to obtain peak efficiency and extend service life.

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