



SLO County Green Building Ordinance Basis of Design for Renewable Energy:

New Construction: Construction documents shall include a renewable energy system basis of design which identifies a kilo-watt (KW) system rating. The plans shall identify a conduit system from the main electrical panel to an accessible location (either attic space, roof structure, or an area onsite designated for future renewable energy generation). The single line diagram shall identify how the renewable energy system output is interconnected to the electrical distribution system pursuant to CEC Article 690 and 705 requirements.

PEC Basis of Design Service

Information required from design team:

- Proposed Use
- Site Plan
- Building Roof Plan & Elevations
- Commercial: T-24 ECON-1 Document
- Residential: T-24 ECON-2 Document (Performance module with appliances inputted, or Energy Pro.BLD file)
- Reference utility statements (for retrofit systems or reference dwelling)
- Additional load information
 - swimming pool plans
 - water pumping loads (deep well, fountain, pond)
 - process loads
 - other loads to be included (in kWh per day)
 - PEC Load Chart (in place of Energy Pro Documentation)
 - planned expansion of usage
- Electrical Utility Load Offset Goal (set by design team/client)

Deliverable from PEC:

- Site energy usage based on Utility Bill/Econ-1/DHW F-Chart/Pool Load Analysis
- Renewable system kW output proposal
- System Cost Estimate, current market based.
- ROI analysis
- Energy/Carbon Offset Chart
- Area Required for system
- Suggested system components
- System output in watts/volts/amps for Electrical engineering & comparison
- Interface with Electrical Engineer/Architect to coordinate renewable system point of interconnection

Included meetings:

- Pre design meeting (SLO area)
- Post design & review meeting (SLO area)

Additional items – billed at hourly rate:

- Pool energy load forecast & analysis
- DHW energy load forecast & analysis
- Meeting outside SLO area – travel time added.
- Site visit
- Single Line Drawings
- Drafting services

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