



RESIDENTIAL ENERGY CALCS

Please fill this form out as completely and accurately as possible. Where information is required but has not been provided, NorthStar Engineering will make assumptions necessary to have the building comply with the California Energy Code.

SECTION A: Project Information

Client: Name _____
 Address _____
 City _____ State _____ Zip Code _____
 Phone (_____) _____ Fax (_____) _____

Project: Owner Name _____
 Street Address (or APN) _____
 City _____ State _____ Zip Code _____

Type: () Existing () Existing + Alteration () Addition
 () New () Alteration

SECTION B: Building Information. Please include the following information if not already included on plans.

Orientation: (Direction *front door* faces, ie. north, southwest, etc.) _____

Area: Please provide the following information for each floor. Include basements, bonus rooms, etc, if they are heated or cooled:

	Basement	1 st Floor	2 nd Floor	3 rd Floor
• Total Floor Area	_____ sq. ft.	_____ sq. ft.	_____ sq. ft.	_____ sq. ft.
• Ceiling Height	_____ ft.	_____ ft.	_____ ft.	_____ ft.
• Area of Slab on Grade:				
○ Covered	_____ sq. ft.	_____ sq. ft.	_____ sq. ft.	_____ sq. ft.
○ Exposed	_____ sq. ft.	_____ sq. ft.	_____ sq. ft.	_____ sq. ft.

 111 MISSION RANCH BLVD. STE 100

 CHICO, CALIFORNIA 95926

 530-893-1600

 FAX-893-2113

- Area of Raised Floor Over:
 - Crawl Space _____ sq. ft. _____ sq. ft. _____ sq. ft. _____ sq. ft.
 - Open Space _____ sq. ft. _____ sq. ft. _____ sq. ft. _____ sq. ft.
 - Conditioned Space _____ sq. ft. _____ sq. ft. _____ sq. ft. _____ sq. ft.

Envelope Construction:

***Note: Standard R-Values will be assumed unless otherwise noted.

1. Roof Construction:

Framing Material (i.e. 2x6 wood studs)_____ Spacing: _____ O.C.

Insulation (R-Value)_____ Location: () Above Ceiling () Roof Rafters

() Attic Radiant Barrier

() Cool Roof Material

2. Exterior Wall Construction:

Framing Material (i.e. 2x4 wood studs)_____ Spacing: _____ O.C.

Insulation (R-Value)_____

() House Wrap

3. Raised Floor Construction: _____

Insulation (R-Value)_____

4. Slab on Grade Construction:

Thickness_____ inches

() Edge Insulation: R- Value_____ Thickness_____ inches

() Covering Type (i.e. carpeting) _____

SECTION C: Mechanical Information

Heating & Air Conditioning:

1. *If this is an addition*, is this HVAC unit: () New () Existing

2. Will there be more than one HVAC unit?

() No () Yes. If “Yes”, please indicate the zones (rooms/areas) for each unit on the plans.

3. Do you have an HVAC unit specified?

() Yes Make/Model of each unit: _____

() No If “No”, please provide the following information:

- Heating Type:

() Central Furnace: () Gas () Electric

() Up-flow () Down-flow () Horizontal () Gravity

() Packaged Unit: () Gas/Electric () Electric

- Heat Pump: Electric Gas Hydronic
- Gas Wall Unit: Fan Type Gravity Type
- Electric Baseboard/Wall Unit(s)
- Room PTAC
- Other _____

- Cooling Type:

- Split Unit (Heat Pump)
- Room
- Other _____

- Heating and Cooling Duct Location:

- None Outdoors Conditioned Space
- Attic Crawl Space
- Garage Basement

If using gas, please indicate: Natural Gas Propane

4. List any additional information about heating or cooling here:

Water Heater:

1. Number of water heaters: _____

2. Type of water heater: *****Note: Unless otherwise noted, a standard 50 gallon gas fired water heater will be assumed.**

Storage type: Size: _____ gallons, Tankless, Point-of-use

3. Fuel: Electric Natural Gas Propane Gas Heat Pump

Other _____

4. Do you have a water heater specified?

Yes Make/Model of each unit: _____

5. Please check if any of these credits apply:

- Distribution System Credits:

- Hot Water Recovery Recirc./Demand
- Recirc./Temp Recirc./Time & Temp
- Recirc./No Control Recirc./Demand & HWR
- Recirc./Timer Parallel Piping

- Auxiliary Credits

Please check if water is heated fully or partially by:

- Wood Stove Wood Stove/Pump
- Active Solar _____% Solar Passive Solar _____% Solar

6. List any additional information about water heater here: