## Informational Checklist, Do You Have Enough Power?

Calculations and Additional Loads For, Service, Subpanel, Generator, EV Charger, Pool Heaters, Hot tubs.

Power companies require you to inform them of additional loads to your service, to prevent overloading of transformers. (Notify your power company)

## RESIDENTIAL ELECTRICAL LOAD WORKSHEET (Main Services 220.82 & Subpanels 215.2)

Project Address Tow		ship,	
( CA	LCULATION TO INCLUDE, HOUSE, GARAGE, C	OUT BI	UILDING.)
NEC 220.82 "Optic ( A)	onal Feeder and Service Load Calculation	on.	
General light, power	SF x 3 volt-amperes	=	
	2 x 1500 volt-amperes		
	1 x 1500 volt-amperes		
Electric Cooktop,	NP Rating,		
Electric Range,	NP Rating,		
Electric Wall Oven,	NP Rating,	=	
Electric Water Heate	er, 4500 VA / NP Rating,	=	
Dishwasher,	1200 VA		
Dryer,	5000 VA		
Refrig,	1200 VA each	=_	
Freezer,	800 VA each		
Micro wave	1500 VA / NP rating	=_	
Furnace,	NP rating, each	=	
Hot Tub,	NP rating	=	
Other	NP rating, each	=_	
	Sub Total A (Add all loads listed Above.)	=	
The first 10,000 VA is calculated at 100%		=	10.000
Remaining Volt-amp	eres calculated at 40%	+	
	Sub Total A	=	

(B) Heating / Air Conditioning Air Conditioning , All unit, (100% np rating)	=
Electrical space heating up to 3 separate units Electrical space heating 4 plus separate units Electrical Thermal Storage System. (100% n	s (40% np rating) =
Heat Pump/s without supplemental heating, Heat Pump/s with supplemental heating, (10 ( Plus 65% of the supplement heating load	00% np rating ) =
Largest load AC or Heat,	Sub Total B =
220.83(B) Existing Dwelling units, (New 625.41 EV, Continu (C) New Loads  EV Charger, 11500 watt 60 amp 240 volt EV Charger, 9600 watt 50 amp 240 volt EV Charger 1840 watt 20 amp 120 volt u EV Charger Larger sizes, (100% np) EV Charger, 2 (100% np rating)  Swimming Pool Pump, (s) Total loads.  Electric Pool Heater,	(100% np rating) = (100% np rating) =
Total A + B + C	= D Total KW load
KW,divided by 240 Volts =	:Amps
	150 ( ) 200 ( ) 320 ( ) 20 amp 160 amp 256 amp Yes ( ) No ( ) Yes ( ) No ( ) Yes ( ) No ( )

Was the power company notified of Add lo	oad! Yes()	No ( )
E Sub Panel Load Calculation for Garage	es with Additional	Loads.
Is there a sub panel involved? Sub Panel Feeder Calculations Required. (N		Yes ( ) No ( ) Yes ( ) No ( )
Detached Garages.		
A Estimated lighting load.		=
Garage door opener /openers,		=
Furnace, (np rating		=
Larger Tools, compressors, / Welder (np ra	ting)	=
1,		=
2,		=
A Non continuous loads,	Total Kw.	=
В		
Electric Heat, (np rating)		
EV Charger, 11500 watt 60 amp 240 volt	`	=
EV Charger, 9600 watt 50 amp 240 volt (		=
EV Charger 1840 watt 20 amp 120 volt (	(100% np rating)	=
EV Charger Larger sizes, (100% np)		=
EV Charger, 2 (100% np rating)		=
B Continuous Loads Kw,	x 125% = Tot	al Kw =
Total A + B	_ = C	Total KW load
KW,divided by 240 Volts =		Amps
Will load shedding be needed? Yes ( ) Size of sub panel,Amp Size of feeder conductors, #		) aluminum.
Conductor amperage rating,		
Is the Subpanel code compliance, Yes (	( ) No( )	