

# Solar Electric Presentation



## Is Solar Electricity right for you or someone you know?

### 2019 Presentations on Solar Energy (see back side)

Cobalt Power System Designer Kurt Newick offers solar energy informational presentations designed to educate interested persons about residential solar electricity called photovoltaics or PV. All classes are free and open to the public. Feel free to attend one of these presentations to see how solar energy may benefit you and society. RSVP to [KurtN@CobaltPower.com](mailto:KurtN@CobaltPower.com) is encouraged. Generally these classes cover the following topics:

- ⊗ Wondering how it works, what the installing process is like or what it costs?
- ⊗ Hear about incentives, such as federal tax credits.
- ⊗ Solar PV design and installation issues - mounting options to prevent roof leaks for various roof types, wind loading, aesthetics, wiring, PV system design, permitting and newer technologies such as microinverters and power optimizers. View sample and actual PV modules, and pictures of PV installations.
- ⊗ Solar PV technologies: PV modules - crystalline and thin film. Inverters compared: AC modules with microinverters by SunPower, string inverters (by SMA), microinverters (by Enphase Energy), Power optimizers (by SolarEdge).
- ⊗ How billing works with solar power. This is called net energy metering by the utility - time-of-use rates "banking" solar credits at retail rates, true up bill at year end, rate schedules compared, historical utility electric rates, current trends in solar financial value as it relates to the foreseeable future.
- ⊗ PV performance issues - including impact of shade, PV panel tilts, summer vs. winter output, efficiency, loss factors, reliability, mean time between failures, PV module degradation factors, etc.
- ⊗ Economic benefits to the homeowner - system payback, life cycle savings, increase in home value, PV system appreciation/depreciation, cash flow of loan payments to finance solar power compared to utility bill, return on investment, solar leases and other financial costs and benefits, as well as reasons to go solar and where or when it makes sense to do so.
- ⊗ Environmental benefits.
- ⊗ PV system sizing considerations.
- ⊗ System operation and maintenance issues - solar panel cleaning, monitoring, reliability and longevity of solar electric system components and warranty info.
- ⊗ Q & A.

Free Solar Electric Presentations at:

**Cobalt Power Systems**  
**2557 Wyandotte Street**  
**Mountain View, CA 94043**

**Phone: 650-938-9574**

*2019 presentations at Cobalt Power Systems Headquarters are normally held on the first Wednesday of each month, subject to schedule changes, thus RSVP is recommended.*

Class schedule:

Wednesday, Jan. 2, 2019	5:30 pm – 7:00 pm	
Wednesday, Feb. 6, 2019	5:30 pm – 7:00 pm	
Wednesday, Mar. 6, 2019	5:30 pm – 7:00 pm	
Wednesday, Apr. 3, 2019	5:30 pm – 7:00 pm	
Wednesday, May 1, 2019	5:30 pm – 7:00 pm	
Wednesday, Jun. 5, 2019	5:30 pm – 7:00 pm	
Wednesday, Jul. 10, 2019	5:30 pm – 7:00 pm	NOTE: Thursday, July 4, 2019 is a holiday
Wednesday, Aug. 7, 2019	5:30 pm – 7:00 pm	
Wednesday, Sept. 4, 2019	5:30 pm – 7:00 pm	
Wednesday, Oct. 2, 2019	5:30 pm – 7:00 pm	
Wednesday, Nov. 6, 2019	5:30 pm – 7:00 pm	
Wednesday, Dec. 4, 2019	5:30 pm – 7:00 pm	

NOTE: some presentations run past 7 PM, based on number of questions and details we go over...feel free to leave by 7 PM, the normal end time, as detailed questions can be addressed at the end of class to keep the presentation on track.

Link to an interesting article on financial benefits of PV by Andy Black, from OnGrid Solar:  
<http://www.ongrid.net/papers/PaybackOnSolarSERG.pdf>

For more information on PV presentations or to RSVP to a particular class contact Kurt Newick:  
Email: [KurtN@CobaltPower.com](mailto:KurtN@CobaltPower.com) cell: 650-847-8188 [www.CobaltPower.com](http://www.CobaltPower.com)

Kurt Newick works as a PV system designer in sales at Cobalt Power Systems and can provide free estimates for solar energy PV systems to interested homeowners in Alameda, San Mateo, Santa Clara and Santa Cruz Counties. Kurt is extremely passionate about solar energy (both PV and solar thermal) as a solution to many environmental problems facing the planet.