



AMERICAN SOLAR ENERGY SOCIETY

National Solar Tour



Anchorage Alaska Solar Tour: Saturday, September 17th, 2016 – Starts At 11am



<u>Sites</u>	<u>Times</u>	<u>Building</u>	<u>Address</u>	<u>Area of town</u>
Site #1	11am – Noon	Coronado Park Village	16820 Coronado Road	Eagle River
Site #2	1pm – 2pm	Sebastian Eckmann House	3510 Tranquility Loop	South Anchorage

Welcome to the 8th Annual Anchorage Solar Tour!!! You are invited to join the largest grass roots solar event in the USA... **to be inspired!!!** ...and to see first-hand how **many folks in Alaska are harnessing the power of the sun, saving money, and creating jobs.** Admission to the tour sites is free, and the owners of each site will be present, along with some of the designers and builders, to **answer your questions.** Please limit your visit to the time slots listed below and try to arrive at the starting time so that group tours can be conducted to make the best use of tour times. Please also be respectful of private property and stay within designated parking areas.

Site #1. The first site is the **largest flat plate solar thermal system in the entire state of Alaska** (and Alaska is a very big state!!!) that easily **heats up 3,300 gallons of domestic water for 56 apartments.** The **incredible climb straight up to the roof 75 feet above Eagle River metropolis** is alone worth the effort as the solar array and the view is gigantic – on a clear day, you can see Denali, the Knik Arm, Eagle River Valley, Sarah Palin’s House, and even Russia!!!

Site #2. The second and final site of this year’s tour is a **great example of building a new super efficient home** that features **solar thermal.** This house is a great example of how **Alaskans can design** their house envelope and heating system to save \$\$ on heating and cooling.

***** More detailed info on these sites and maps are included in the next few pages *****

We look forward to seeing you at these sites on Saturday May 16th! ~ Andy Baker, Anchorage Tour Organizer

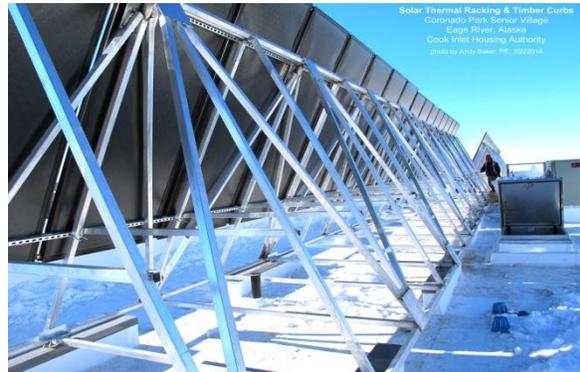


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Site #1 – 11am to Noon - Coronado Park Village – Eagle River – 16820 Coronado Road



Solar Thermal Racking & Timber Curbs
Coronado Park Senior Village
Eagle River, Alaska
Cook Inlet Housing Authority
photo by Andy Baker, Inc. 10/20/14

Solar Thermal Panels Dominate Skyline in Eagle River, AK...
Coronado Park Senior Village
Cook Inlet Housing Authority
photo by Andy Baker March 22, 2014



Mechanical Room with 3 x 1,100 gal tanks all copper piping HCOM Pump Station web based controls Coronado Solar Thermal
photo by andy baker june 22 2014



The Anchorage Solar Tour will feature what is now the **largest solar thermal system in Alaska**, on the rooftop of the four story Coronado Senior Village Complex in Eagle River. Spanning nearly 300 feet across the skyline, this giant renewable energy system is comprised of **fifty-six flat plate collectors, each 4ft x 10ft**. The steep tilt collectors are anchored to the roof structure via a **space frame aircraft aluminum racking** attached to engineered glue lam roof curbs. Sixty five feet below the roof, the mechanical room is host to **3,300 gallons of solar heat storage** and a state of the art **packaged control/pump station**. Owned and operated by Cook Inlet Housing Authority, the system was placed on-line December 2014 and has been easily heating the majority of **domestic hot water for 56 apartments**. You can explore this system top to bottom on the Tour this year, and witness the immense power of the Alaska sun working to displace natural gas and avoid CO2 emissions. **Tour site is open from 11am to Noon, park in visitor lot or on the street.** Call Andy Baker for more info on this site = 907 350 2084.





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Site #2 – 1pm to 2pm – Sebastian Eckmann House - 3510 Tranquility Loop - South Anchorage



New Anchorage home is rated 6 Star and incorporates Solar Thermal

Sustainable practices in residential homes can be taken in small baby steps that make a big impact, and it comes down to a few key strategies: a tight envelope and efficient heating. At 3510 Tranquility loop, Nordic Constructors LLC and Intelligent Design collaborated to create high-performance thermal envelope and installed solar-thermal panels on the roof to supplement domestic hot water use. This is a 6 Star Energy rated home. Call Sebastian Eckmann for more info = 907 301-5465

The Envelope

- Seal off air leakage:
 - Attention to the construction details
 - High R value windows
- Keeping the heat inside by reducing thermal bridging:
 - Small gains in solar-thermal and passive solar energy makes a big impact

Renewable

- Heat load is low due to good envelope
- Incorporate solar-thermal panels

