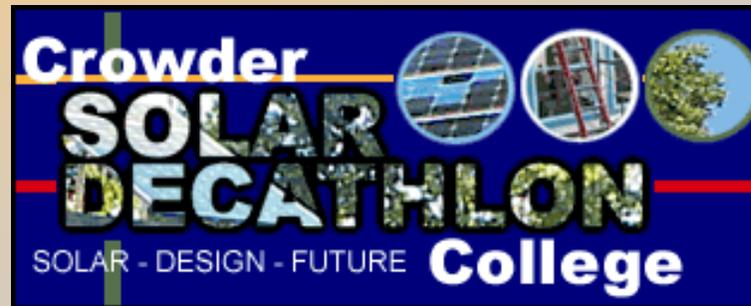
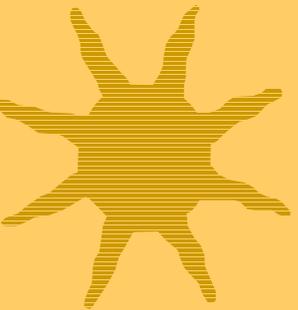
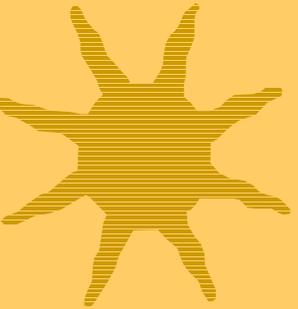
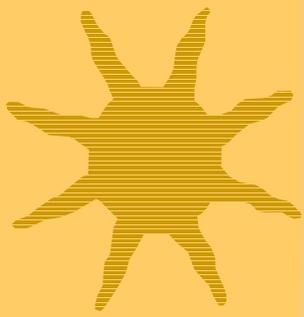


*The Crowder College
Solar Decathlon Team*



*A Community College
with a Global Attitude*



What was the Solar Decathlon?

In September of 2002 each competing team designed, built, and demonstrated a totally self-sufficient solar home on the National Mall in Washington, DC.

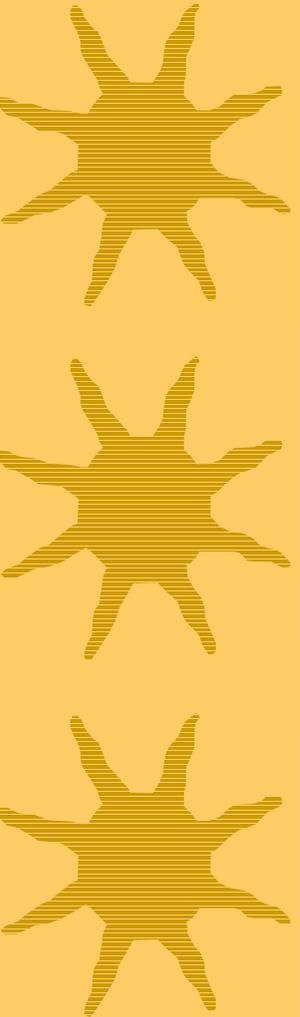


The Event Sponsors



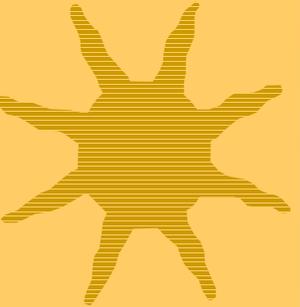
**THE SOLAR
DECATHLON**

www.solardecathlon.org

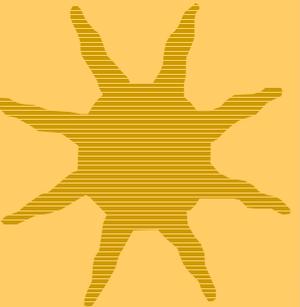




The Ten Events



Design and Livability
Presentation and Simulation



Graphics and Website

Comfort Zone

Refrigeration

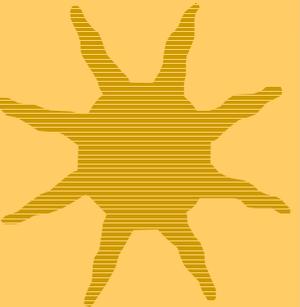
Hot Water

Energy Balance

Lighting

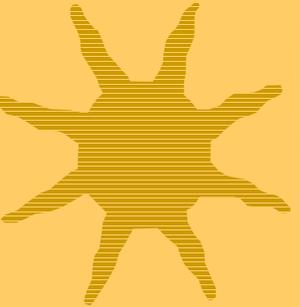
Home Office

Electric Car

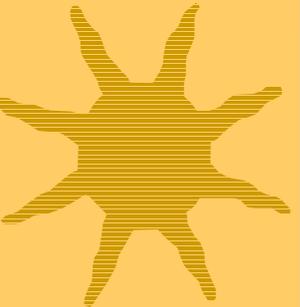
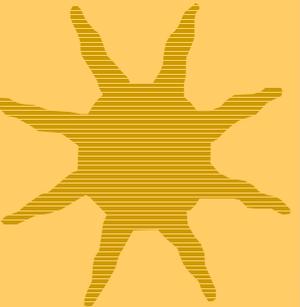




Special Features of the Crowder Decathlon House



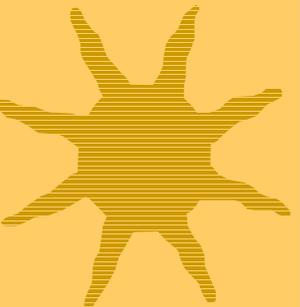
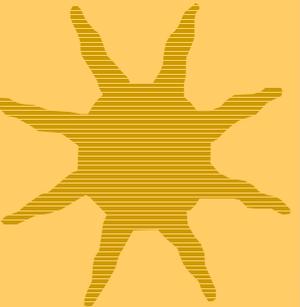
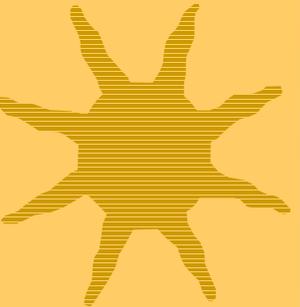
- ★ *Quality modular design*
- ★ *Full-featured home with modern amenities*
- ★ *Integrated hybrid solar system*
- ★ *Energy-efficient construction, appliances*
- ★ *Combined active and passive solar*
- ★ *Complete home office with public display*
- ★ *Composite wood deck of recycled products*





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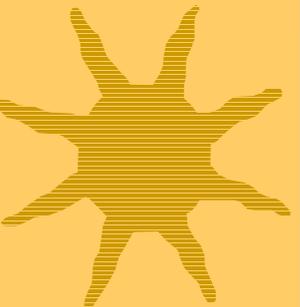
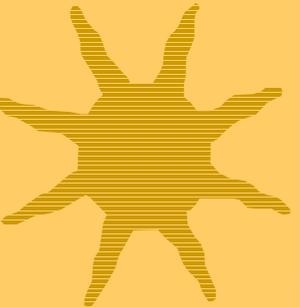
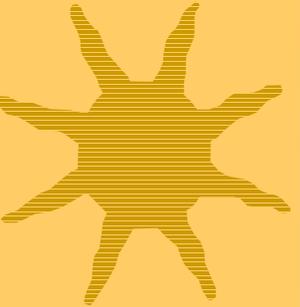
The **KanBuild** team of builders have built thousands of structures for owners who demand superior design, proven materials and tested methods of construction. We offer the best, most timely and cost-effective solutions for Custom Home building, Multi-Family building and Commercial building. We utilize experienced, licensed Builders who take pride in their work.



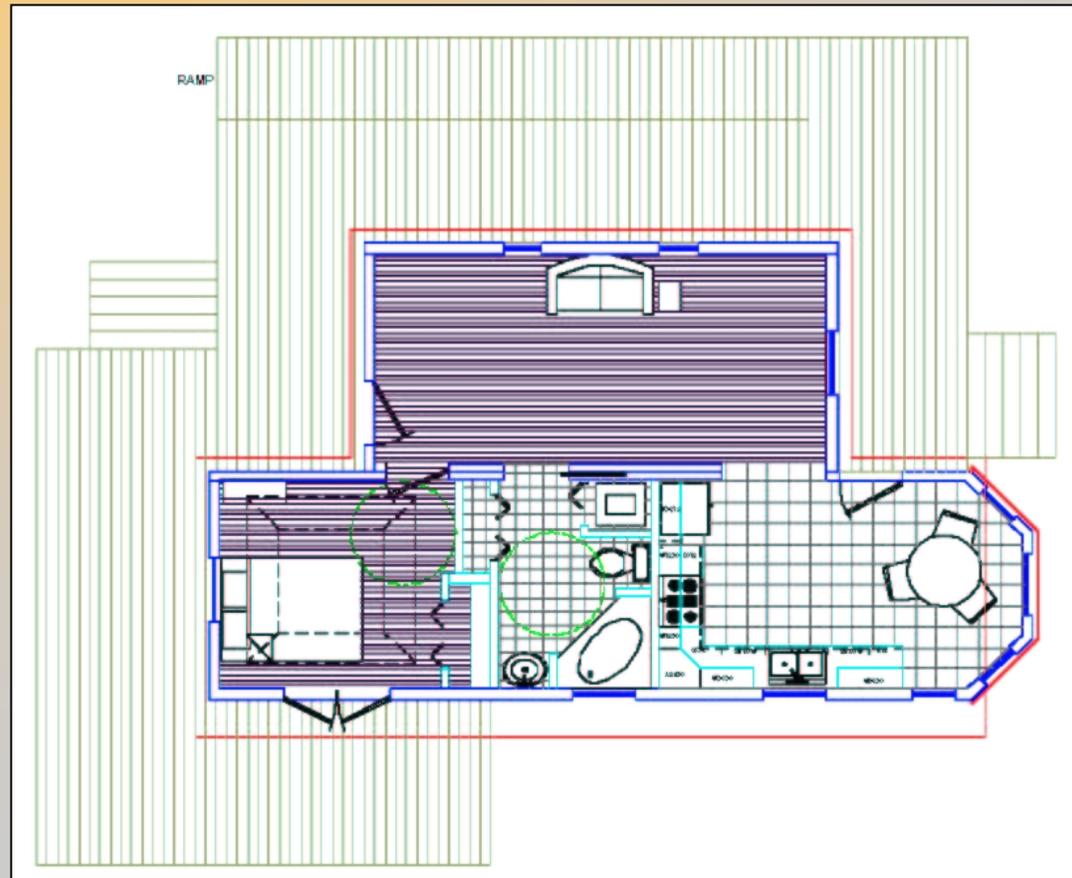
- **Features**
KanBuild's Features are unmatched by the competition.
- **Customizing**
KanBuild homes and buildings are highly versatile with many options.
- **Value**
The **KanBuild** Process incorporates every advantage of pre-site building, along with high-quality materials and construction.
KanBuild means value.



Modular Construction

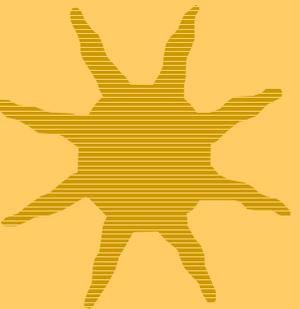
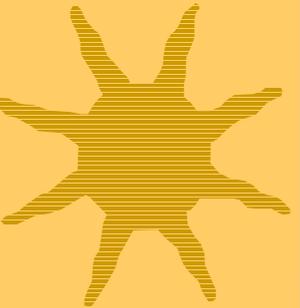
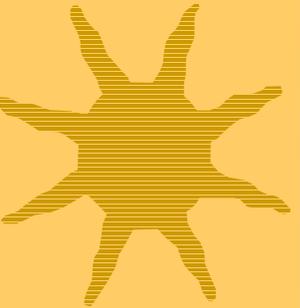


Floor Plan



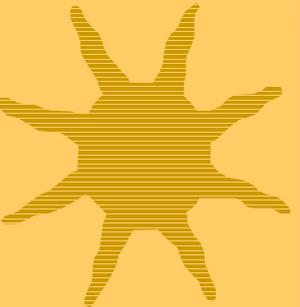
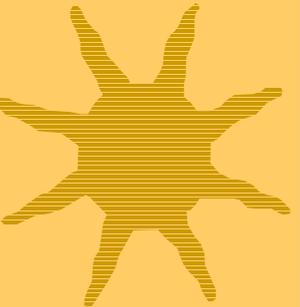
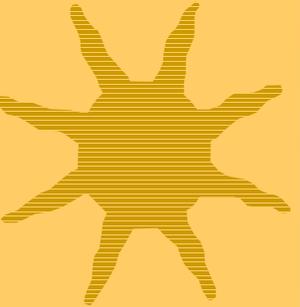


House Arrived July 2002



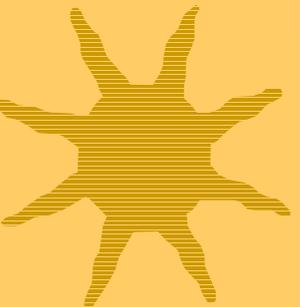
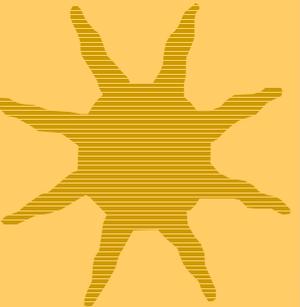
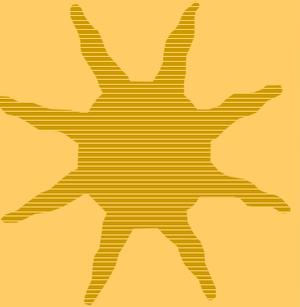


All Together - Elevations



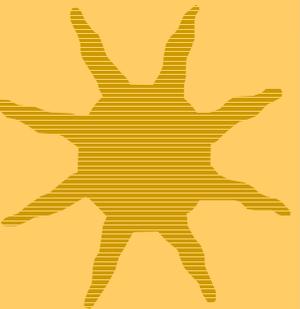
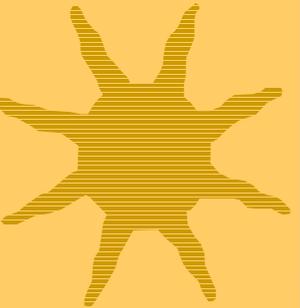
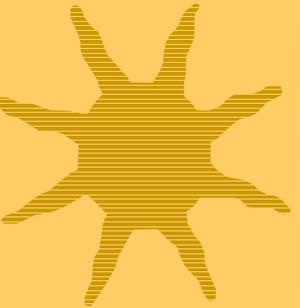


A Quick Look Inside . . .



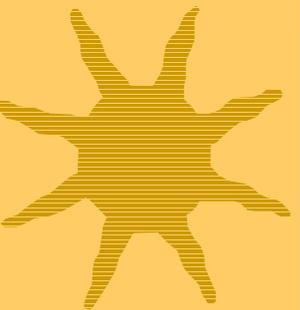
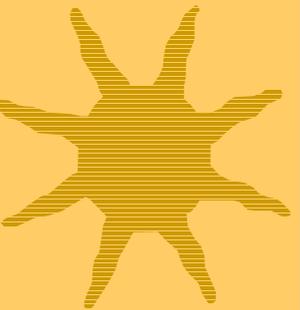
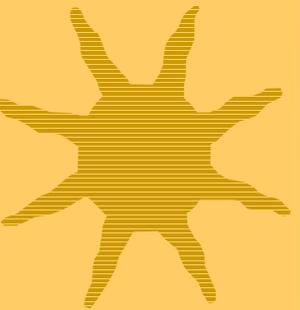


*Building With Solar Power:
only solar electricity is used during
construction on campus...*





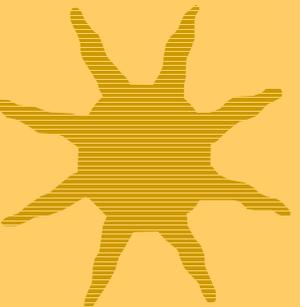
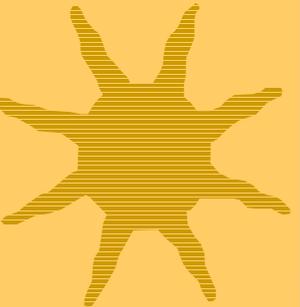
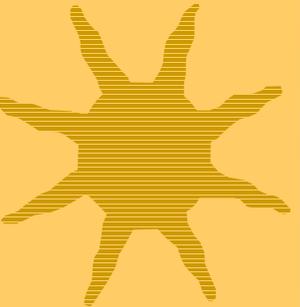
PV Trailer





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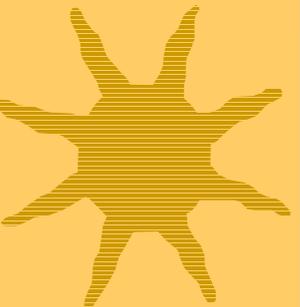
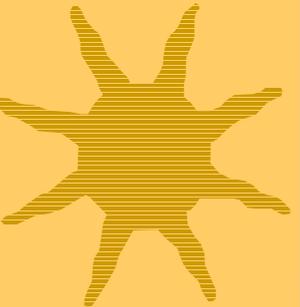
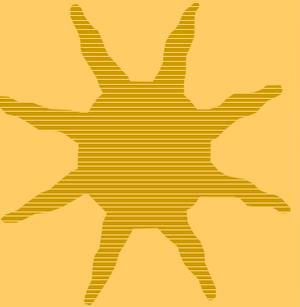
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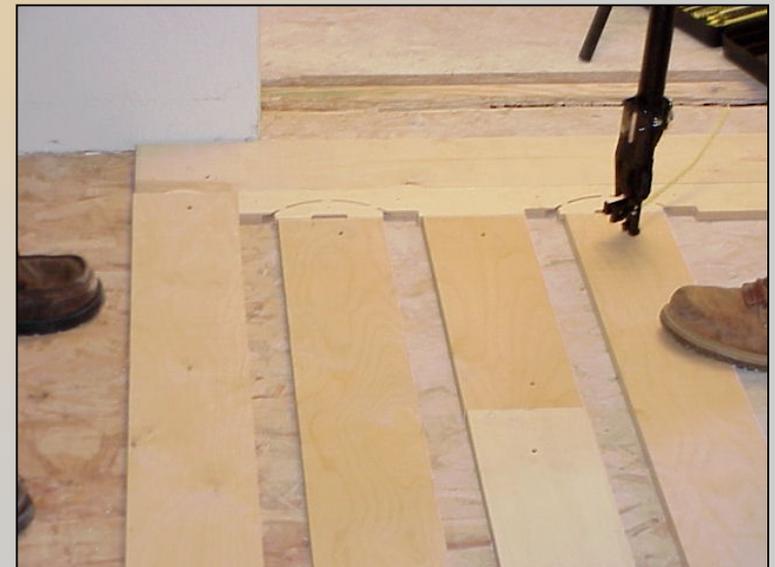
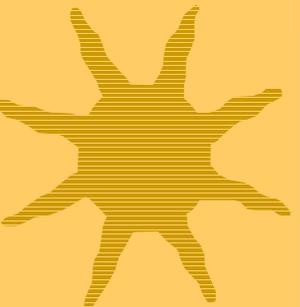
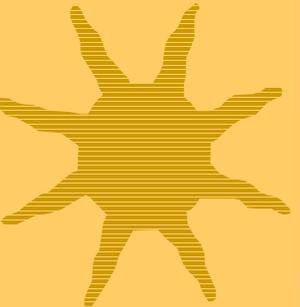
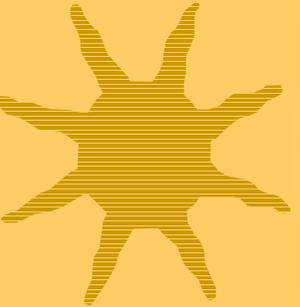
Installing The Radiant Floor



Starts with a lot of discussion on who gets to take the pics! ¹⁴

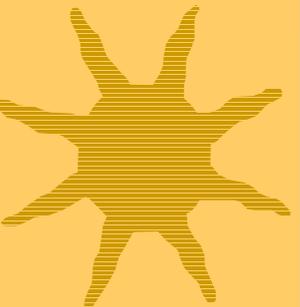
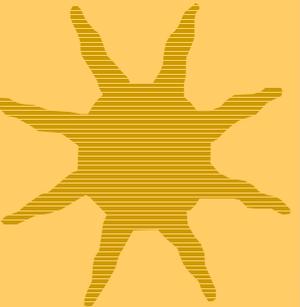
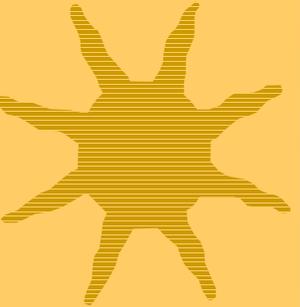


Screwing Down The SUBRAY Sleepers and Headers



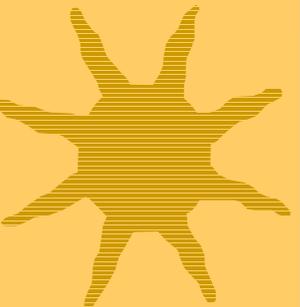
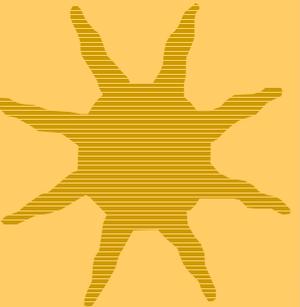
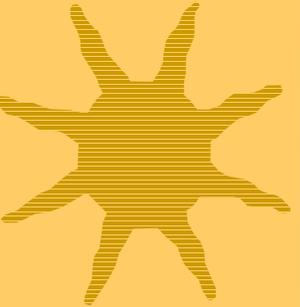


Cover The Floor With Tubing!



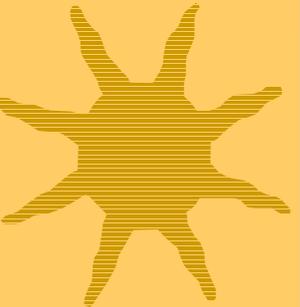
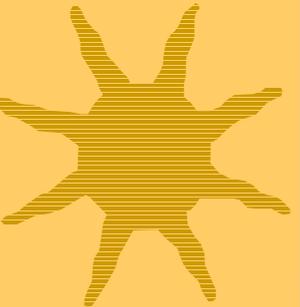
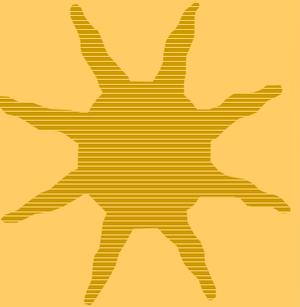


Install The Wood Flooring



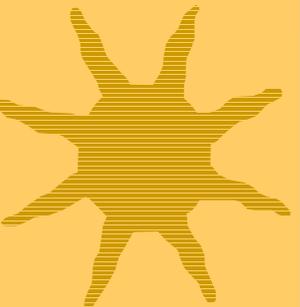
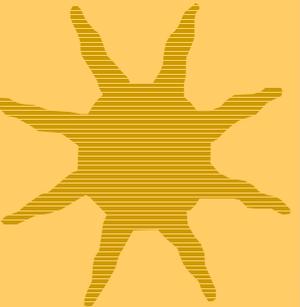
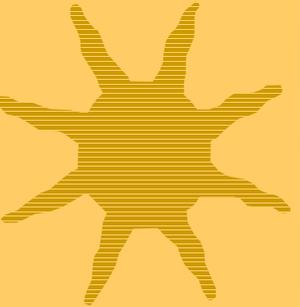


Building A Transportable Deck



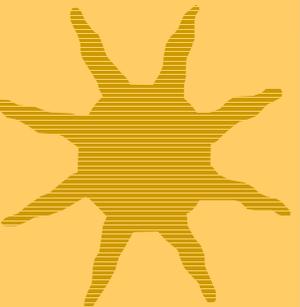
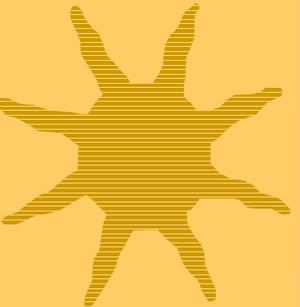
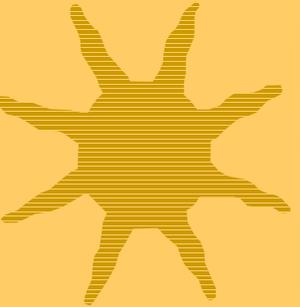


Epoch Decking



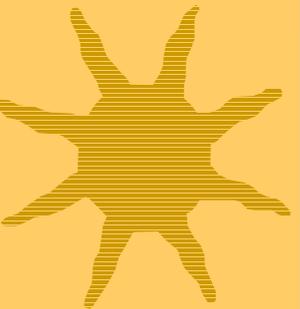
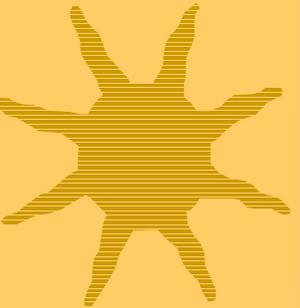
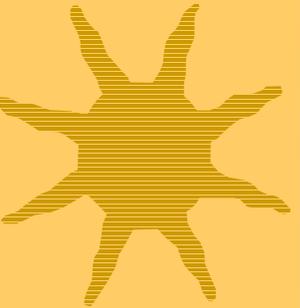


Epoch Decking



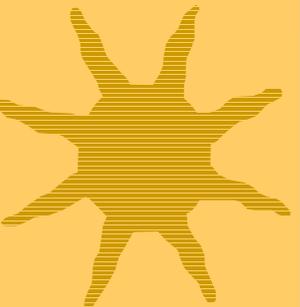
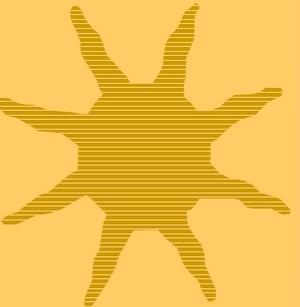
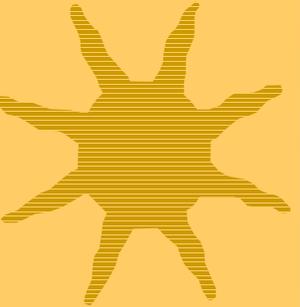


Cedar Siding



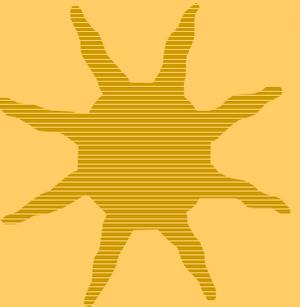
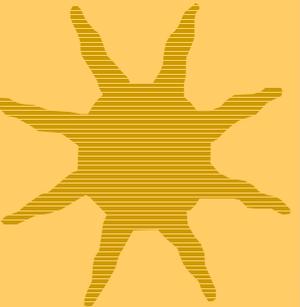
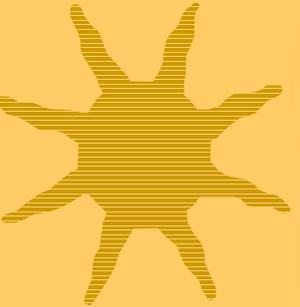


Windows – Low e2



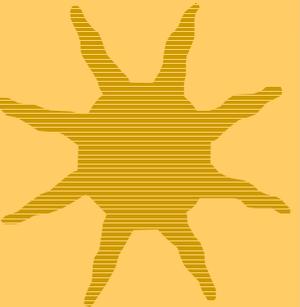
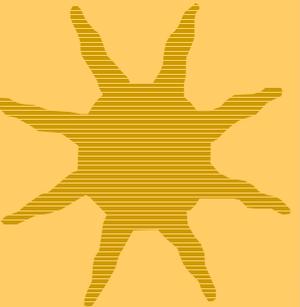
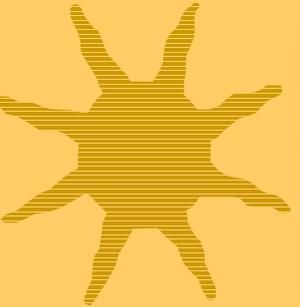


Windows – Low e^2



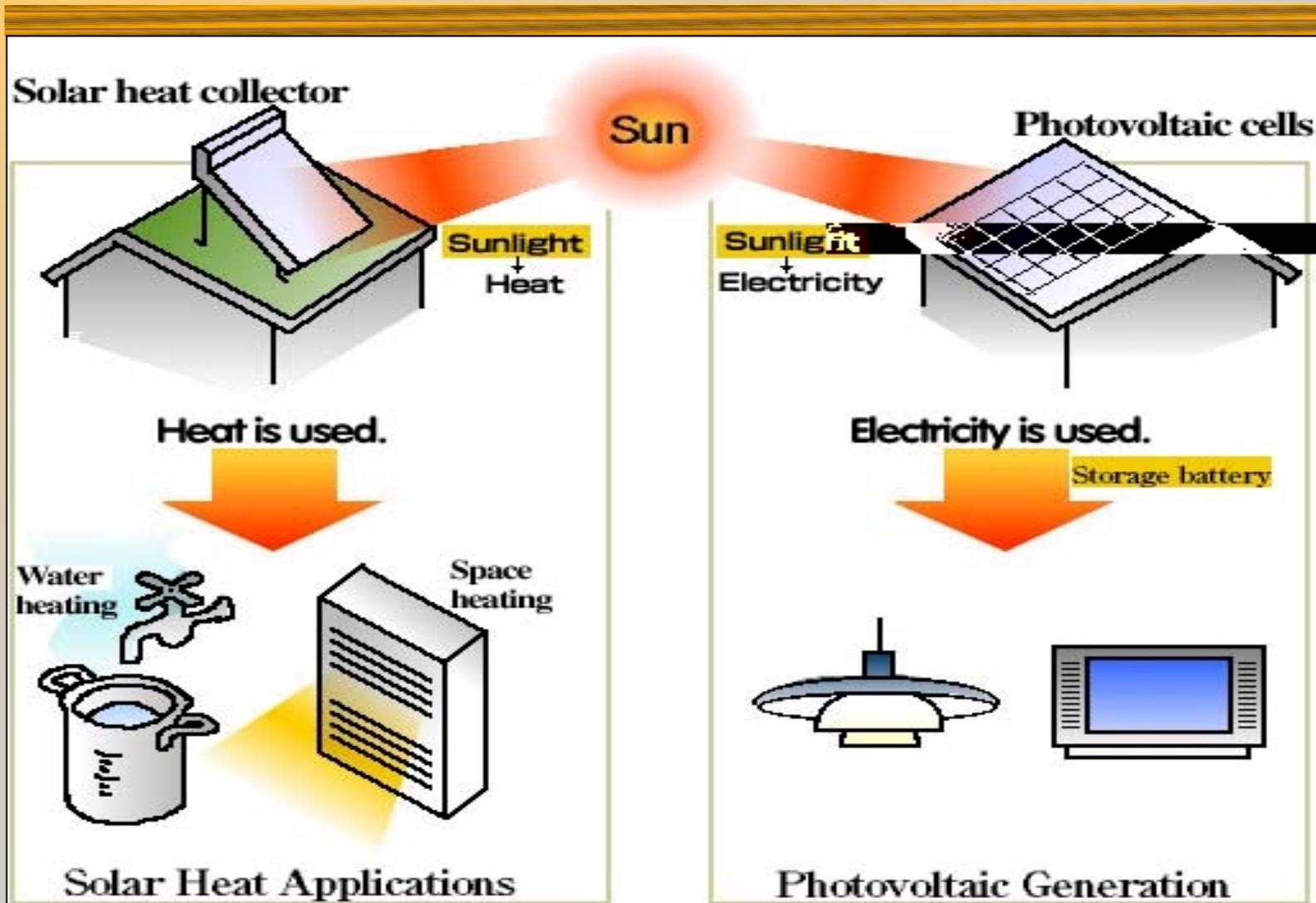
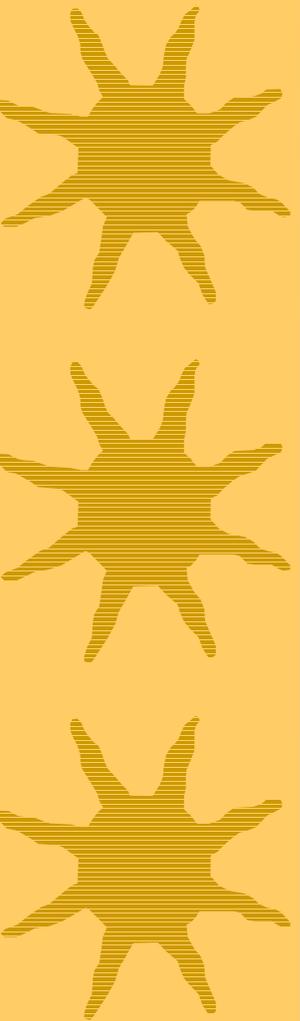


Roofing



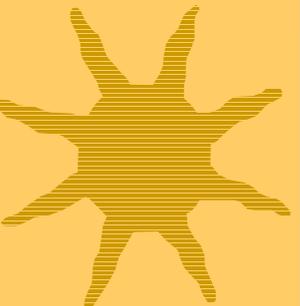
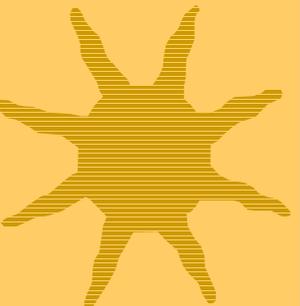
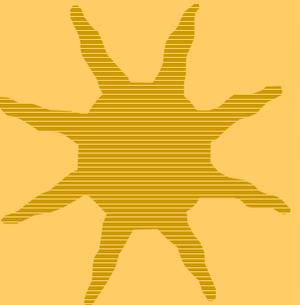


Residential Solar Collectors Typically Are of Two Types . . .

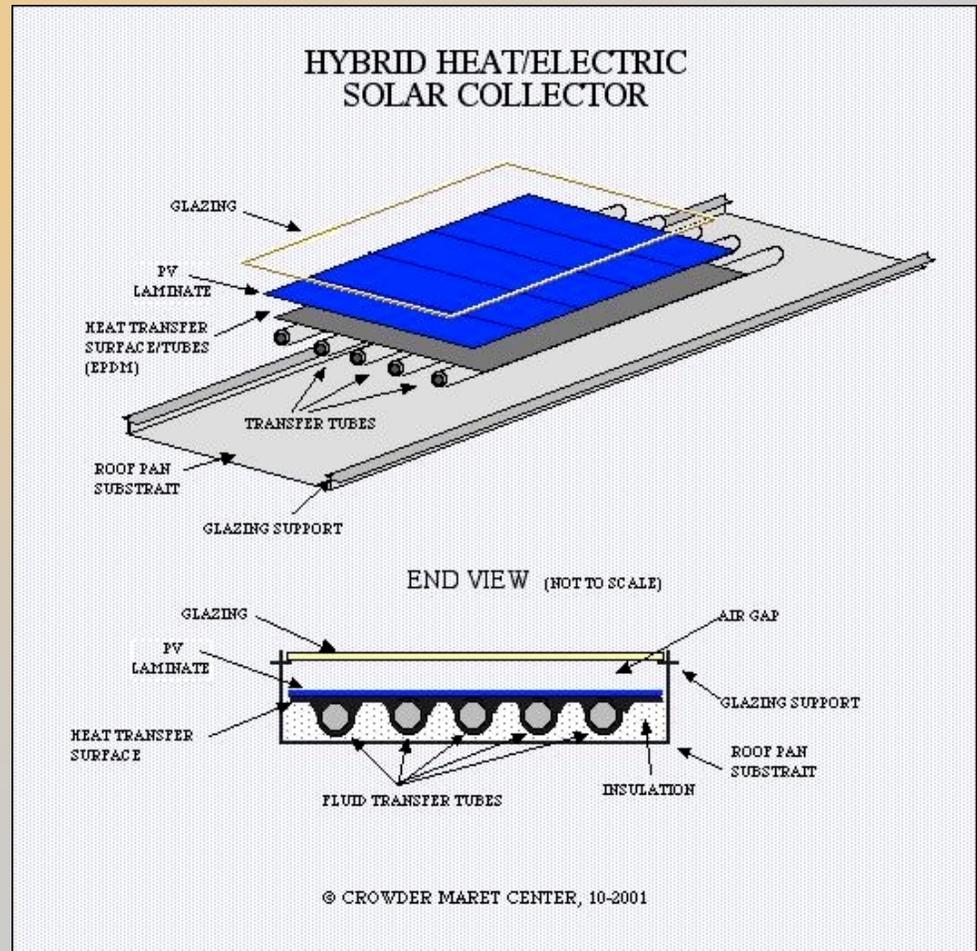




Crowder's Solar Design is Unique:

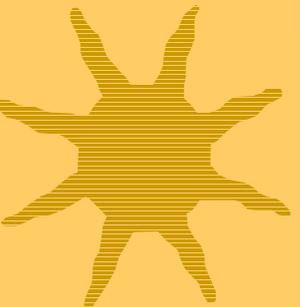
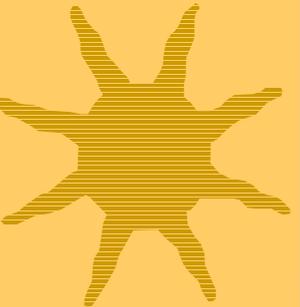
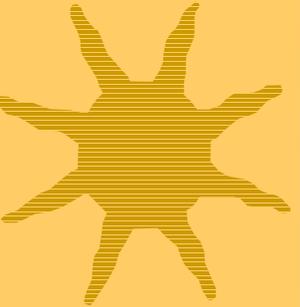


Thermal and photovoltaic functions are combined within a single solar collector.



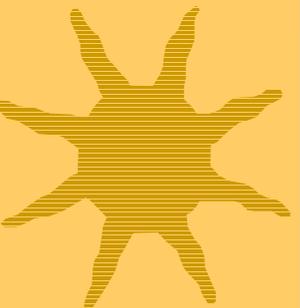
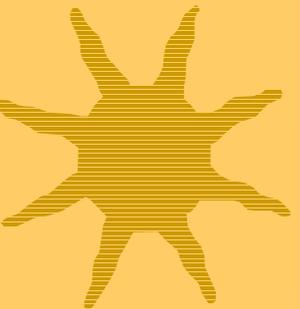
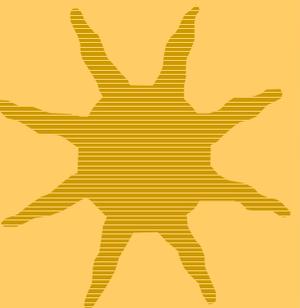


Constructing the Hybrid Panels



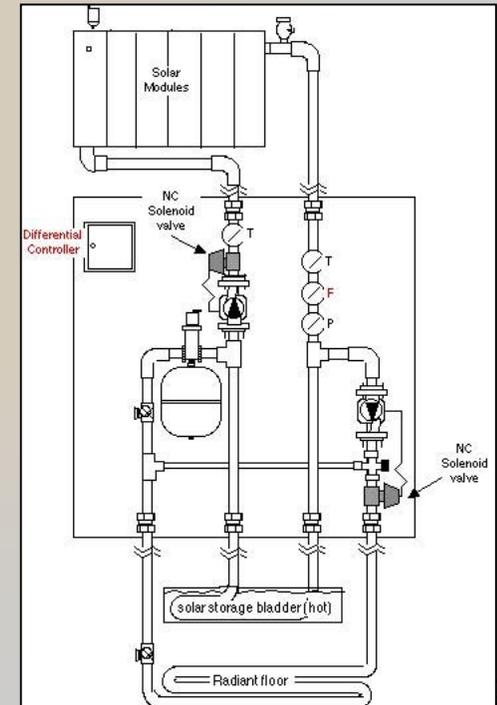
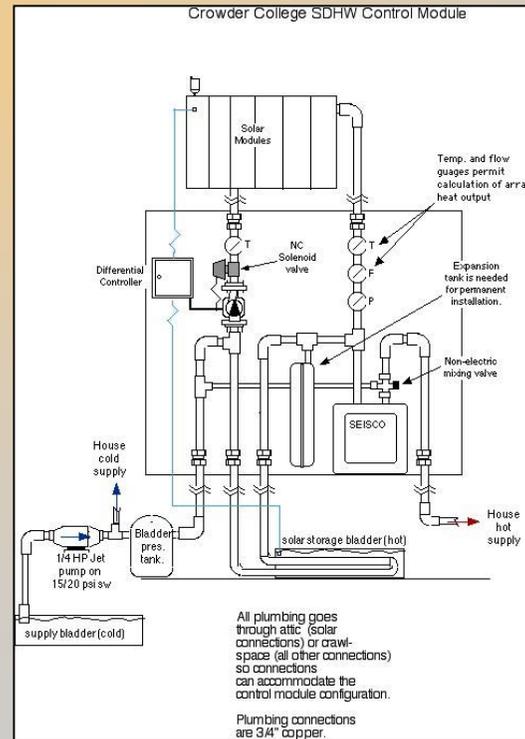
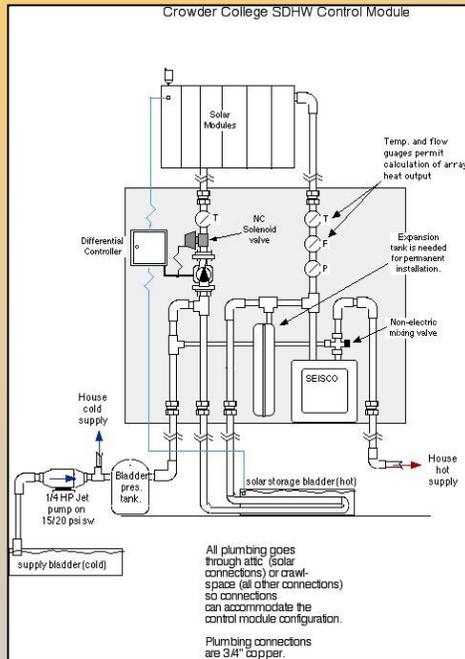
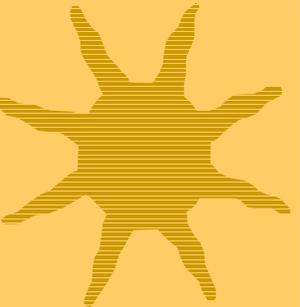
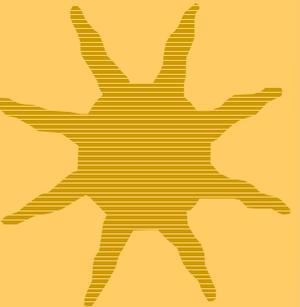
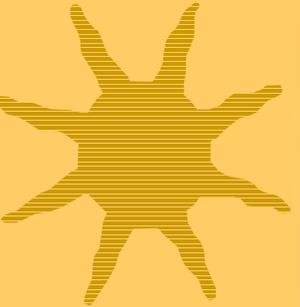


Installing the Hybrid Panels



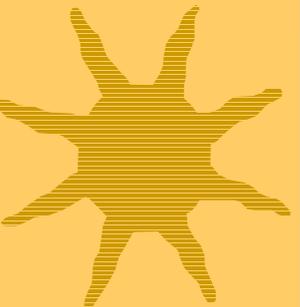
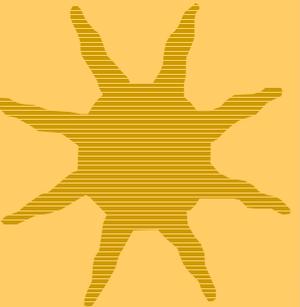
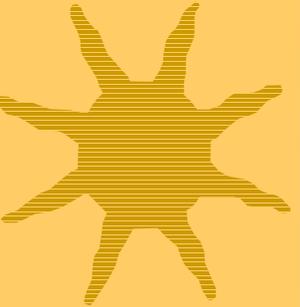


Thermal Control Diagrams



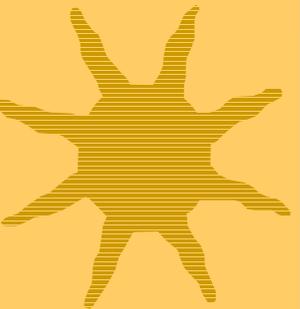
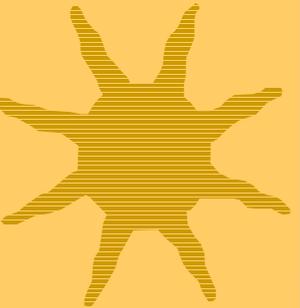
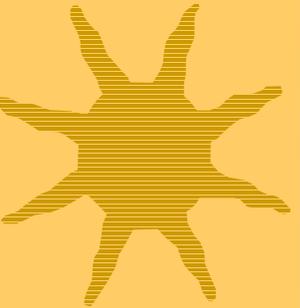


What it really looks like



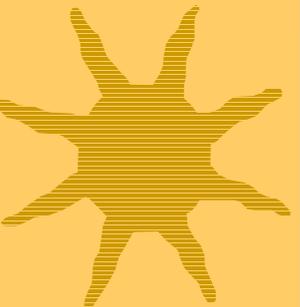
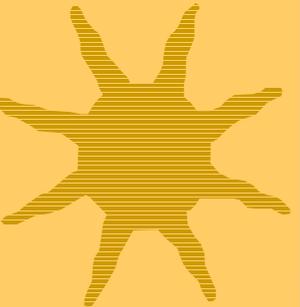
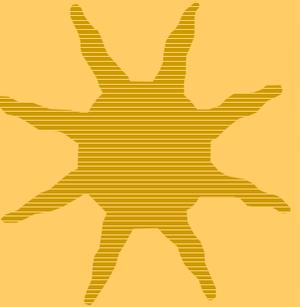


PV Panel Controls



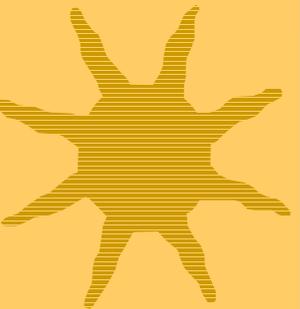
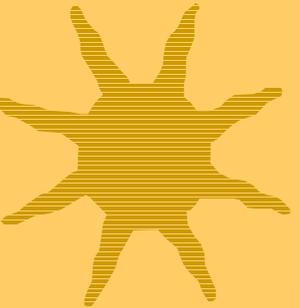
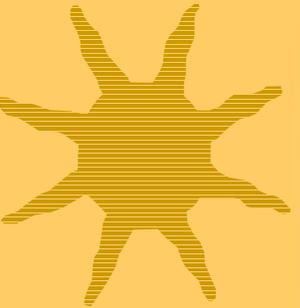


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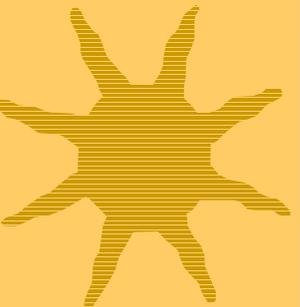
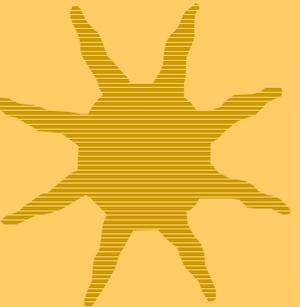
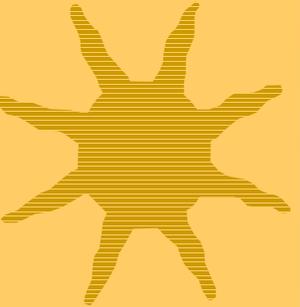
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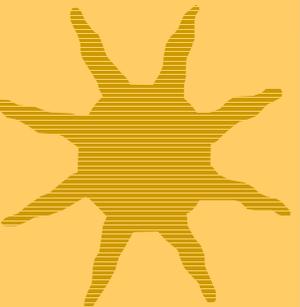
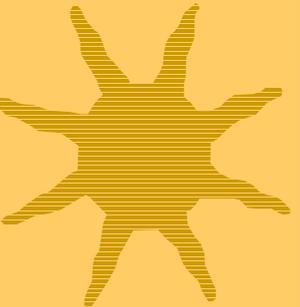
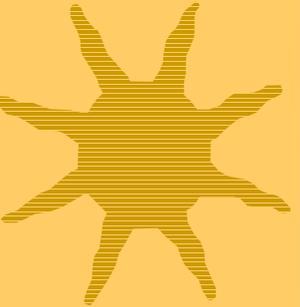


The Finished House



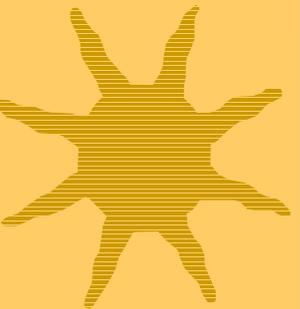
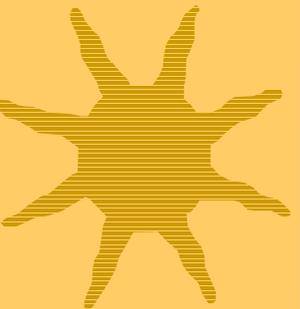
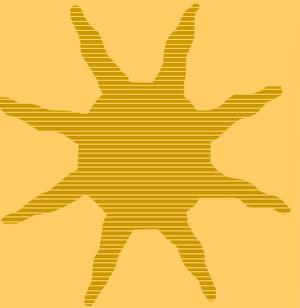


Inside Also



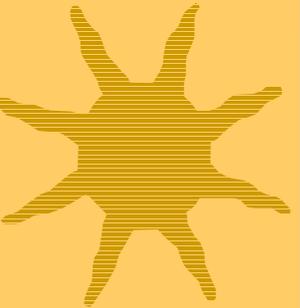
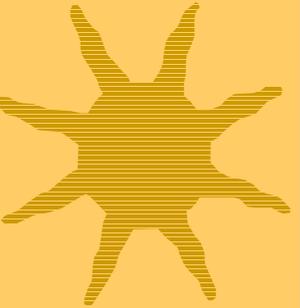
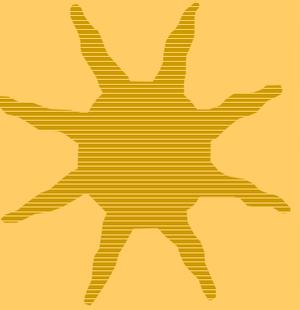


Leaving for DC



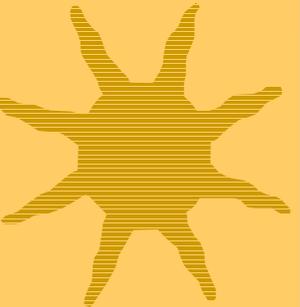
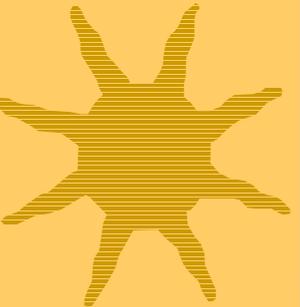
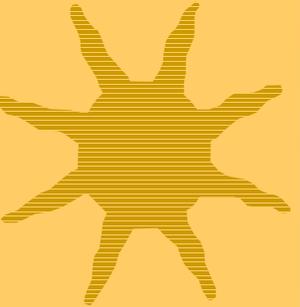


Moving Onto the National Mall



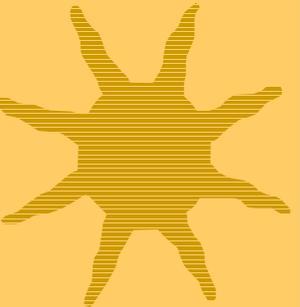
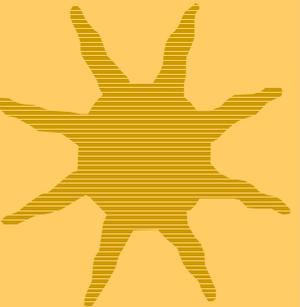
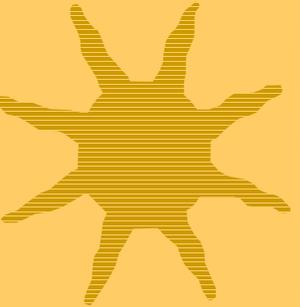


Rebuilding on the National Mall



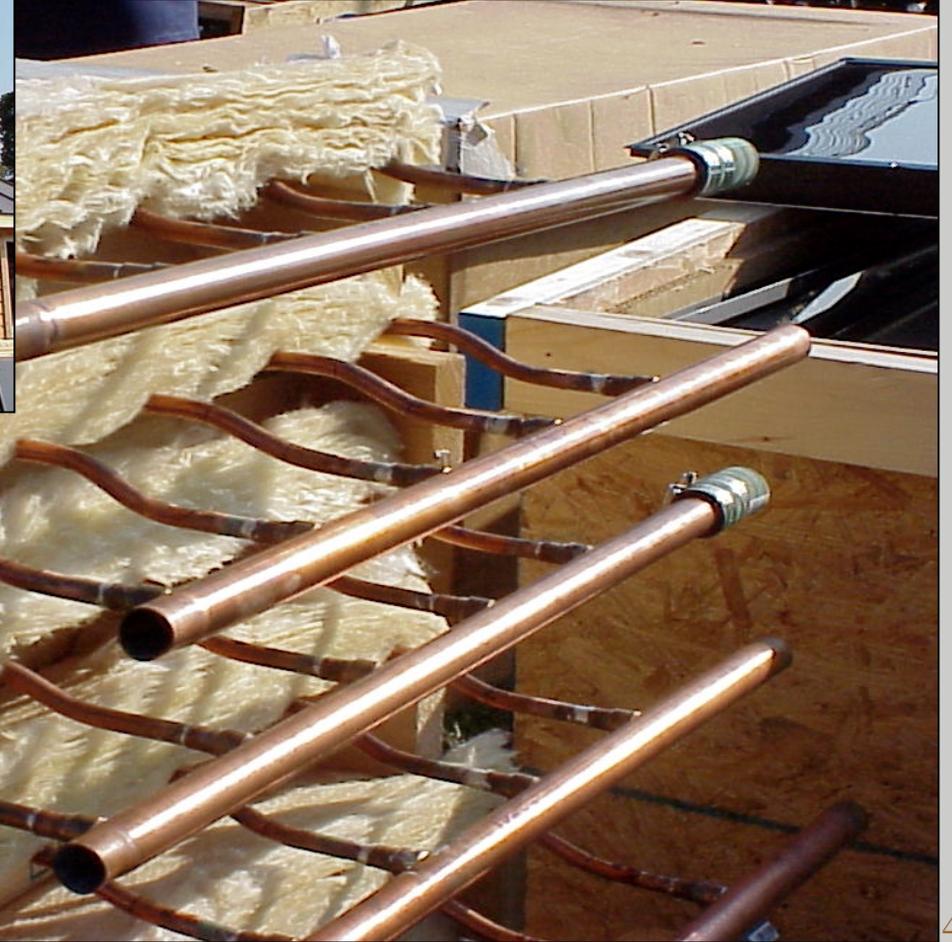
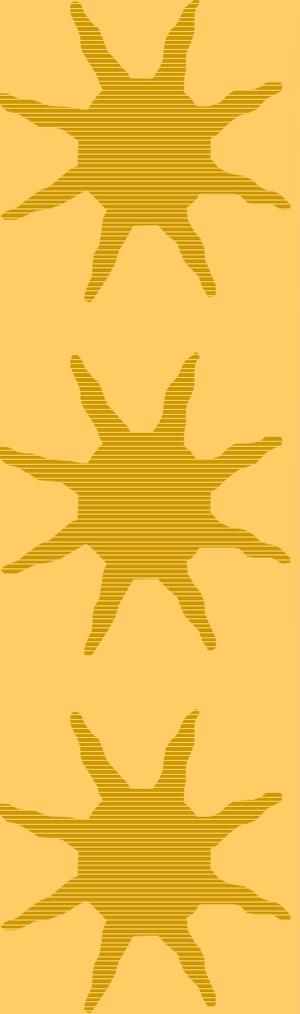


Rebuilding on the National Mall



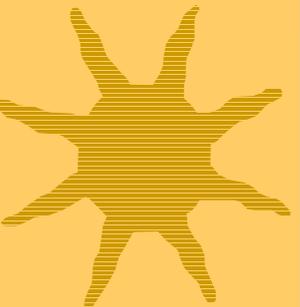
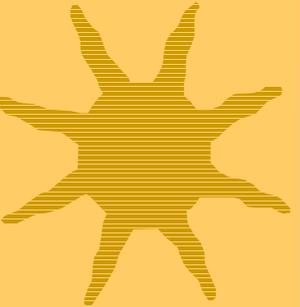
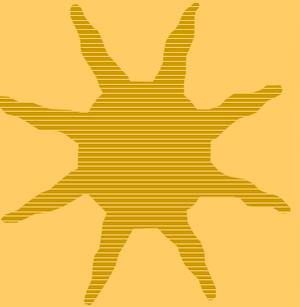


Reinstalling the Hybrid Panels



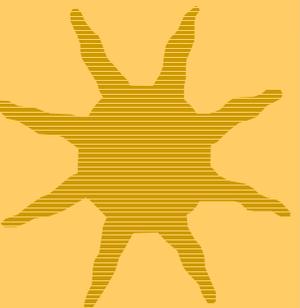
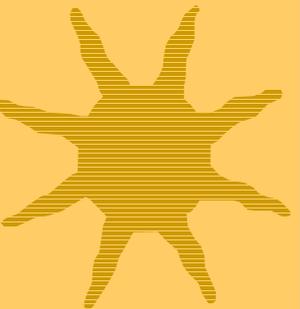
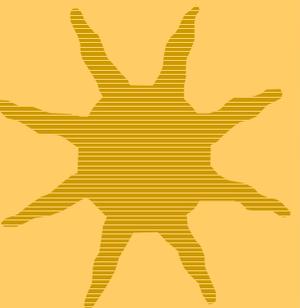


Bottom, Middle, and Top



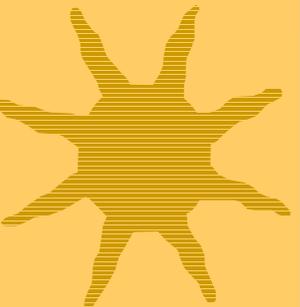
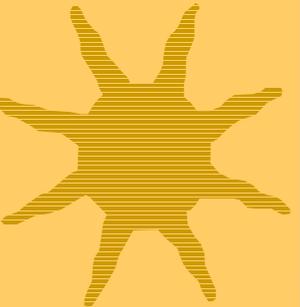
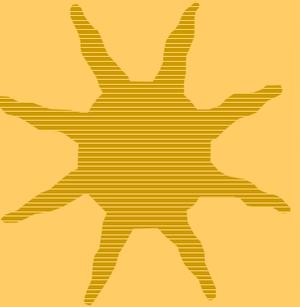


Life During the Solar Decathlon



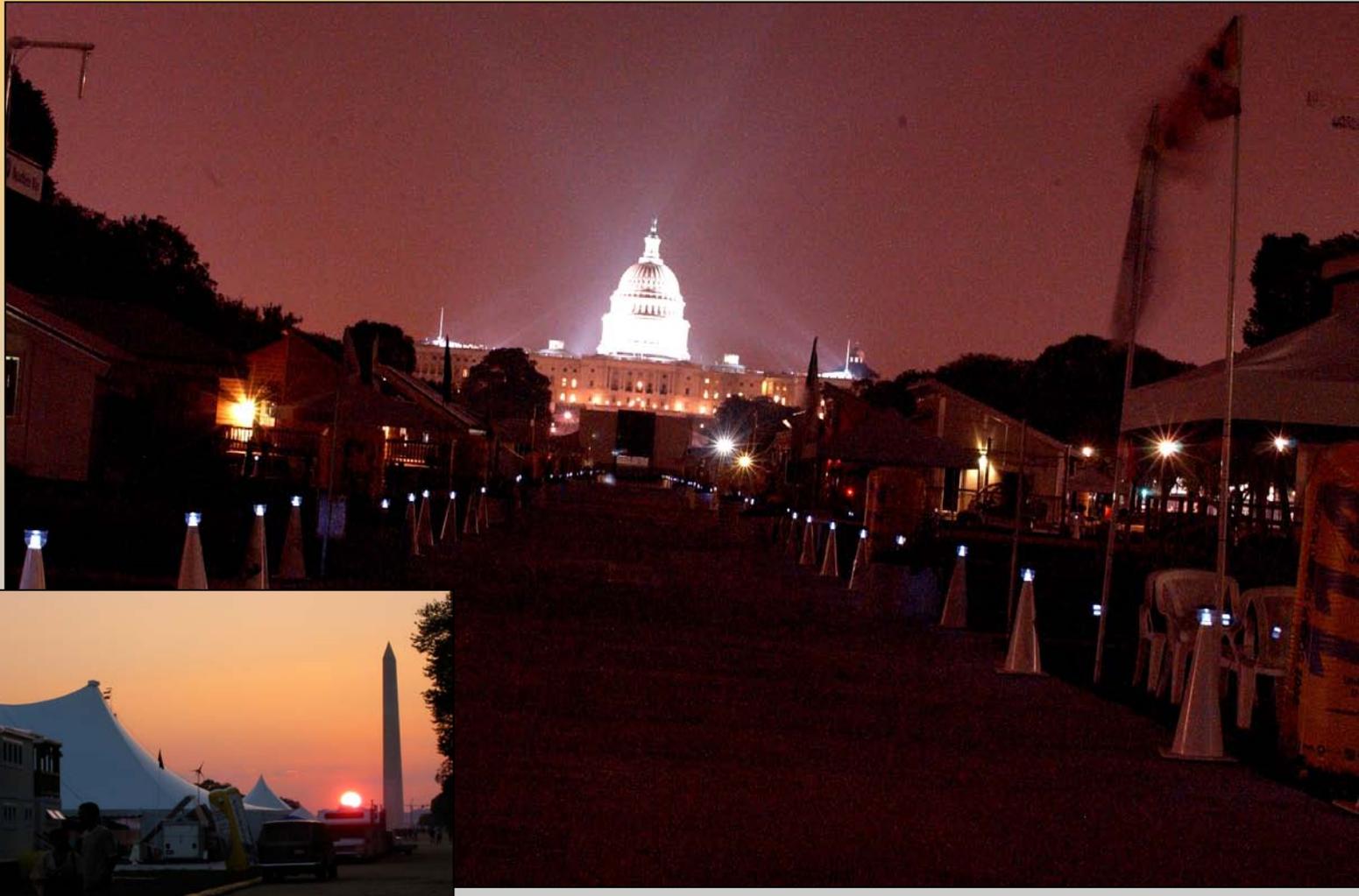
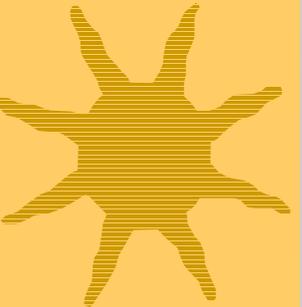
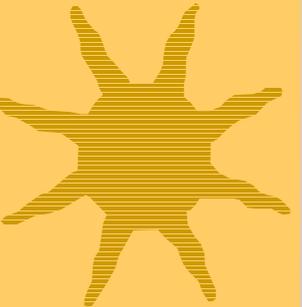
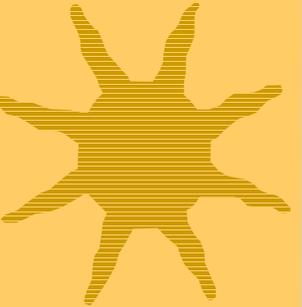


Life During the Solar Decathlon



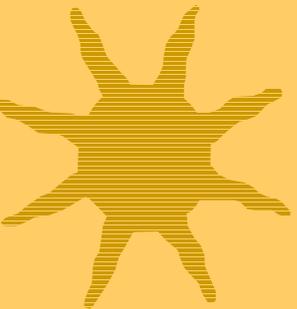
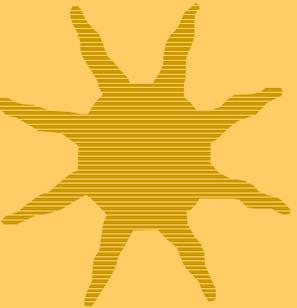
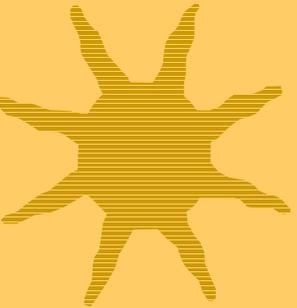


What's it like to live on the Mall?



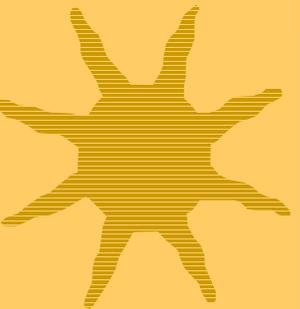
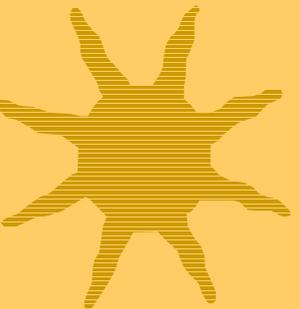
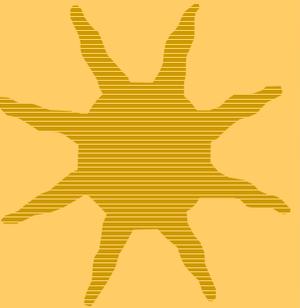


Solar Decathlon Team



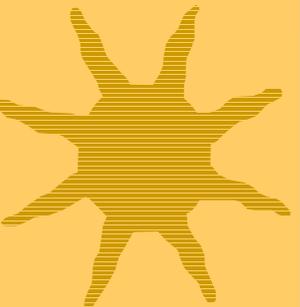
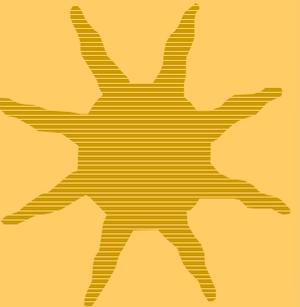
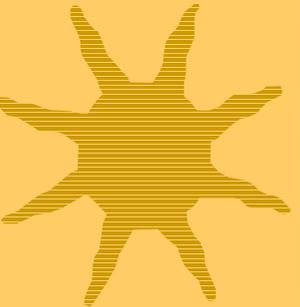


All Work?



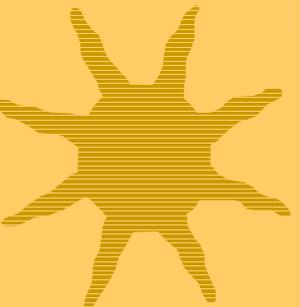
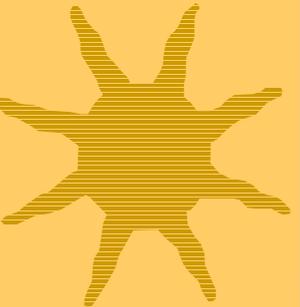
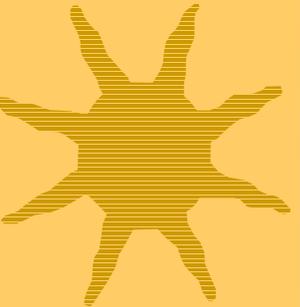


Other Solar Houses



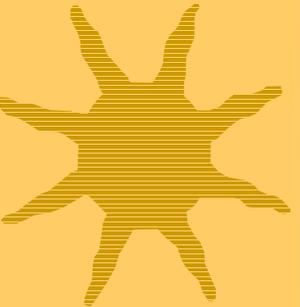


Other Solar Houses

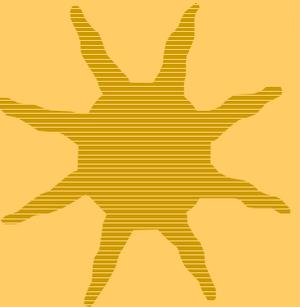
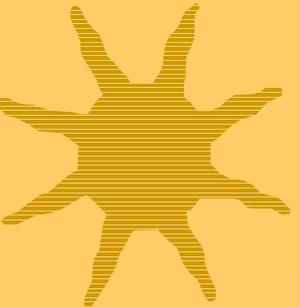




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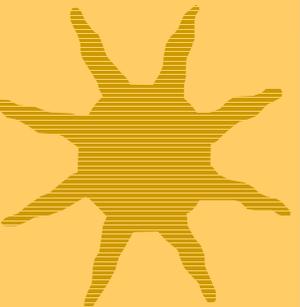
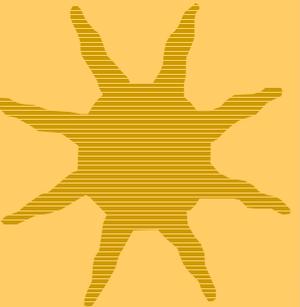
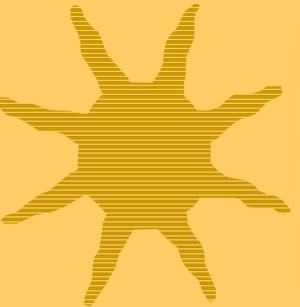


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Q and A

