

Appalachian State University  
Campus Renewable Energy Systems

**Renewable Energy Project:** Blackburn-Vannoy Solar Thermal

<b>System description</b> (Include brief description of system with location info)	The Blackburn-Vannoy Solar Thermal system is a pressurized glycol solar thermal system consisting of 30 evacuated tube solar thermal collectors and was funded by the ASUREI and installed by graduate students in the Technology and Environmental Design Department. 608 Water Tank Rd., Fleetwood, NC 28626			
<b>Equipment manufacturer(s)</b> (With list of all critical components in system m/u that each is associated with)	Collectors – (30) Solar Panels Plus SP-30A evacuated tube collectors Pump – Storage Tanks – 115 gal. storage tank with internal heat exchanger			
<b>Date placed in service</b>	May 2012			
<b>Installation contractor</b> (Include address & contact info)	ASU Technology and Environmental Design Graduate Students	Contact – Dennis Scanlin Phone – 828 262-6361		
<b>Rated output</b> (Nameplate capacity & anticipated yearly output)	25,680 Btu/hour nameplate capacity			
<b>System monitoring</b> (Remote available / certifiable)	No / No			
<b>Warranty</b> (List any warranties for equipment and time period)	Solar Thermal Collectors – 10 years Pump –			
<b>Interconnect Agreement</b> (Req'd / in place / date / with)	No	N/A	N/A	N/A
<b>Power Purchase Agreement</b> (Req'd / in place / date / with)	No	N/A	N/A	N/A
<b>RECs available</b> (Are RECs available to sell / how many)	*Yes / Unknown			
<b>NC GreenPower</b> (Sellable to NCGP / price / contract)	No	N/A	N/A	
<b>Documentation</b> (Owner's manual, individual responsible for control)	Unknown			
<b>System maintenance</b> (Primary for system maintenance)				
<b>Maintenance contract</b> (In place / terms)				
<b>Cost / Funding participants</b>	\$4,586.93	ASUREI		
<b>Other comments</b>	*Proposed NC solar thermal REC regulations permit estimating on residential scale solar thermal systems to determine RECs produced.			