

Appalachian State University  
Campus Renewable Energy Systems

**Renewable Energy Project:** Mountaineer Residence Hall Solar Thermal System

<b>System description</b> (Include brief description of system with location info)	Pressurized glycol system with 40 collectors. Balance of systems components located in the basement mechanical room 711 Poplar Grove Rd. Boone, NC 28608			
<b>Equipment manufacturer(s)</b> (With list of all critical components in system m/u that each is associated with)	Collectors – (40) Bosch model FKT-1 (vertical mount) (4' x 6.5") glass glazed Buffer tanks – (2) 1,000 gallon tanks Pumps – (2) Grundos circulating, UP 25-120U, UP 26-120U Heat exchanger – (1) Bell & Gossett BP 415-020			
<b>Date placed in service</b>	July 2011			
<b>Installation contractor</b> (Include address & contact info)	WARCO Enterprises 110 Fairchild Road Winston-Salem, NC, 27105		Contact – Phone – 266.785.9500	
<b>Rated output</b> (Nameplate capacity & anticipated yearly output)	229,000 Btu/hour nameplate capacity			
<b>System monitoring</b> (Remote available / certified)	Not upon initial installation			
<b>Warranty</b> (List any warranties for equipment and time period)	Collectors – 10 year Heat exchanger – Pumps – 2 years			
<b>Interconnect Agreement</b> (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)	Yes, mechanical room			
<b>System maintenance</b> (Primary for system maintenance)	Eric Greer, Physical Plant			
<b>Maintenance contact</b> (In place / terms)				
<b>Cost / Funding participants</b>	ASU Housing			
<b>Other comments</b>	*RECs are not currently available for Mountaineer Hall due to the lack of monitoring.			