Appalachian State University Campus Renewable Energy Systems

Renewable Energy Project: Plemmons Student Union Solar Thermal System

System description (Include brief description of system with location info)	Drainback system used to preheat domestic water with 42 collectors on the roof, storage tanks and system controls in mechanical room at the entrance to Hawksbill Game Room (connected with water heater on opposite side of building) located at 263 Locust St., Boone NC on roof of Plemmons Student Union					
Equipment manufacturer(s) (With list of all critical components in system m/u that each is associated with)	Panels – (35) Solar Development Inc. model SD8-40 (4'x10') glass glazed collectors (7) Sunqest Fresource (4'x10') lightweight prototype Tefzel glazed collectors Tank(s) – (3) Trendsetter (400 gal each) w/ 3 SS coil HXs/tank Pumps – (1) Grundfos (solar loop) Controller – (1) Eagle 2 pump controller					
Date placed in service	October 2009					
Installation contractor (Include address & contact info)	Sunqest Inc. 1555 Rankin Ave. Newton, NC 28658		Contact – Greg Baer Phone – 828-465-6805			
Rated output (Nameplate capacity & anticipated yearly output)	242,170 Btu/hour nameplate capacity					
System monitoring (Remote available / certified)	Yes - Metasys / Yes (Onicon System 10)					
Warranty (List any warranties for equipment and time period)	1 year on system Collectors – 10 years (SD8-40), 5 years (Sunquest) Pump – 2 years Controller – 2 years					
Interconnect Agreement (Req'd / In place / date / with)	No	n/a		n/a		n/a
Power Purchase Agreement (Req'd / in place / date / with)	No	n/a		n/a		n/a
RECs available (Are RECs available to sell / how many)	Yes / Unknown					
NC GreenPower (Sellable to NCGP / price / contract)	No		n/a		n/a	
Documentation (Owner's manual, individual responsible for control)	M Drive, Office of Sustainability					
System maintenance (Primary for system maintenance)	Plemmons maintenance personnel					
Maintenance contact (In place / terms)	No					
Cost / Funding participants	\$153,000 ASUREI funded					
Other comments						