Appalachian State University Campus Renewable Energy Systems

Renewable Energy Project: Varsity Gym Solar Thermal

System description (Include brief description of system with location info)	The Varsity Gym Solar Thermal system is a drain back solar thermal system consisting of 12, 4'X10' solar thermal collectors. 530 Rivers St., Boone, NC 28608					
Equipment manufacturer(s) (With list of all critical components in system m/u that each is associated with)	Collectors – (12) Advanced Energy Technology AE-40 flat plate collectors Pumps – (1) Grundfos UPS15-55SFC, (1) Taco 2400-50S Storage Tanks – (1) 900 gallon custom manufactured (FLS Energy) steel tank Heat Exchanger – (1) Graham GB105-70					
Date placed in service	August 2010					
Installation contractor (Include address & contact info)	FLS Energy 130 Roberts St. Asheville, NC 28801		Contact – Phone – 828 350-3993			
Rated output (Nameplate capacity & anticipated yearly output)	11,850 Btu/hour nameplate capacity					
System monitoring (Remote available / certifiable)	Yes - Metasys / Yes (Onicon System 10)					
Warranty (List any warranties for equipment and time period)	Solar Thermal Collectors – 10 years Pumps – Grundfos – 2 years, Taco – 3 years Heat Exchanger – 1 year from date of shipment					
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)	Yes, located in the mechanical room of Varsity Gym, Unknown					
System maintenance						
(Primary for system maintenance)						
Maintenance contract						
(In place / terms)						
Cost / Funding participants	\$ Who					
Other comments						