



An Investment with Real Returns

CASE STUDY - Fort Hood Military Base Killeen, TX 2011

PROJECT SUMMARY

- Domestic Hot Water and Pool Heating
- TitanPowerPlus-SU2 Solar Thermal Collectors
- System Type: Drainback
- Scale: (6) Building Installation and Dining Facility

Overview of Project:

SunMaxx Solar completes one of the largest commercial solar hot water systems at Fort Hood Military Base located in Killeen Texas. Fort Hood, the largest military base in the world is now capable of harnessing the sun's energy to offset the facilities energy consumption. The project was completed together with Johnson Controls and Intelligent Green Solutions, where together the team successfully installed one of the largest solar hot water systems in the country. Total installed capacity of collectors exceeds 5,000 sq feet across all buildings.

The SunMaxx turnkey solar hot water system was installed on five dining center buildings as well as a large pool collector installation. SunMaxx developed a specially designed turnkey system which was used as a template across the five different buildings.

A total of 93 collectors were installed across the five buildings in addition to solar pumping stations and storage tanks. Each building was also outfitted with a custom ballasted drain-back mounting system.

Each TitanPower SU series flat plate collector is backed with a 20 year performance warranty to ensure the system exceeds production specifications. All TitanPower SU series collectors are eligible for a 20 year performance guarantee as well as a standard 12 year equipment warranty, the longest warranty in the industry.



SOLAR THERMAL INSTALATION FORT HOOD

Building Configuration:

BLD 9205:

Panels: 20 TitanPower Plus SU2 Flat Plate Collectors

Controller: SmartMaxx-DHW Plus Solar Controller

Storage Tank: 2 (415 Gallon) StorMaxx Non-Pressure Tanks

System Type: Drainback

Mounting System: ConnectMaxx Drainback / Ballast Mounting System

BLD 12005:

Panels: 18 TitanPower Plus SU2 Flat Plate Collectors

Controller: SmartMaxx-DHW Plus Solar Controller

Storage Tank: 1 (650 Gallon) StorMaxx Non-Pressure Tanks

System Type: Drainback

Mounting System: ConnectMaxx Drainback / Ballast Mounting System

BLD 21020:

Panels: 30 TitanPower Plus SU2 Flat Plate Collectors

Controller: SmartMaxx-DHW Plus Solar Controller

Storage Tank: 2 (415 Gallon) StorMaxx Non-Pressure Tanks

System Type: Drainback

Mounting System: ConnectMaxx Drainback / Ballast Mounting System

BLD 41018:

Panels: 15 TitanPower Plus SU2 Flat Plate Collectors

Controller: SmartMaxx-DHW Plus Solar Controller

Storage Tank: 1 (415 Gallon) StorMaxx Non-Pressure Tanks

System Type: Drainback

Mounting System: ConnectMaxx Drainback / Ballast Mounting System

BLD 91226:

Panels: 10 TitanPower Plus SU2 Flat Plate Collectors

Controller: SmartMaxx-DHW Plus Solar Controller

Storage Tank: 2 (105 Gallon) StorMaxx Non-Pressure Tanks

System Type: Drainback

Mounting System: ConnectMaxx Drainback / Ballast Mounting System



Upcoming United States Military Projects:

- Moody Air Force Base Domestic Hot Water System due to complete in 2011
- Winder Reserve Center Domestic Hot Water System due to complete in 2011
- Fort Brag Domestic Hot Water System due to complete in 2011

