



Success Story

Sustainable Building Solutions



Gaylord Hospital
Gaylord Farm Road
Wallingford, CT 06492
(203) 284-2800
www.gaylord.org

Gaylord Specialty Healthcare serves people who need additional attention for complex or chronic medical issues and rehabilitation needs.

The Business Situation

Gaylord's long-term energy strategy for its 330,000 sq-ft campus was to reduce reliance on imported #2 heating oil and to shrink their carbon footprint. The facility management team learned about the benefits of a solar hot water solution for satisfying its daily appetite for 12,000 gallons of domestic hot water. Top management supported the idea, which set the stage for the CT Clean Energy Finance and Investment Authority to fund two thirds of the \$550,000 project. Being part of a broader energy strategy satisfied the board of directors.



Solar Hot Water: Green Solution for the Energy Strategy

"Any commercial user of large amounts of domestic hot water should consider the financial benefits of investing in solar thermal technology."

David DeMaio, Munger President

Success Story: Gaylord Hospital



The Challenge

This was uncharted territory for Gaylord so the risk was high. The grant timeframe that was elapsing imposed tight time constraints for remaining grant eligibility.

Four buildings required separate solar thermal installations. Each of the four roofs differed in construction, creating a challenge for the most efficient, secure, and water-tight attachments.



The Solution

72 of the latest technology SolarUS evacuated tube solar hot water panel collector arrays were installed along with a 3,750 gallon storage tank from which hot water is pumped throughout the campus.

Success Story: Gaylord Hospital



Munger's Role In This Project

Munger served as the general contractor for the installation of these solar thermal collectors. This included permitting, infrastructure concrete site work, roof structure and sealing, and mechanical assembly and installation of the solar arrays. Munger completed a solar panel infrastructure which enabled LMG, the prime contractor, to finish other tasks required to complete the job.

Munger applied its expertise in buildings and roofs to recommend the correct solution for each rooftop including a dunnage design that elevated the solar arrays 18-inches above the rooftop. This ensured adequate clearance for roof maintenance and repairs.

Sustainability Results

Economic, Environmental, Social

Gaylord's solar thermal collectors are the largest commercial domestic hot water installation in Connecticut and is the first hospital in the state to employ an alternate energy program.

The system satisfies two thirds of the domestic hot water needs. Although budgeted for an annual savings of 7,000 gallons of heating oil there is a savings potential up to 9,000 gallons.

This very attractive "big picture" success joins other Gaylord energy efficiency initiatives to enhance credibility with the board of directors relative to future sustainable energy initiatives.



"Munger made a strong impression on us. They get it right the first time around. Being customer focused with proactive suggestions, quality workmanship and available when needed is an unusual combination for a contractor."

**Mark Vere, Gaylord Director
Facility Support Services**



Build The Best - Be The Best

Success Story: Gaylord Hospital



Teamwork Essential For Success

“The key to this project’s success was a great team effort”, said David DeMaio, Munger president. “The project went seamlessly. Everyone had a strong sense of responsibility for their role”.

Consulting Engineering Services (CES) System Design

Legacy Mechanical Group (LMG) Prime Contractor, Installation, and Maintenance

- Munger teamed with LMG to ensure on-time completion in order to retain grant eligibility.
- Munger recommended modifications to SolarUS products that will enable more efficient future installations.

Munger Sub-Contractors:

- Contractors Steel Supply - Co-design the dunnage and support system.
- Quality Roofing Services - Seal and weld EPDM roof penetrations.

Our Core Competency:

Building Long Lasting Relationships With Customers and Partners.

We Add Value From Start to Finish:

Convenience, Advice, Integration of High-quality Products, Design/Build Services, Support.

No Shortcuts:

Built to the Highest Structural Standards Without Compromising Integrity, Quality or Professionalism.

Build The Best – Be The Best



PAT MUNGER CONSTRUCTION COMPANY, INC.

750 East Main Street, Suite One
Branford, Connecticut 06405
203-483-3645
www.mungerconstruction.com



Build The Best - Be The Best