Concentrated Photovoltaic Thermal (CPVT) = Efficient Solar Co-Gen

1. TEAM Support
2. Menova Vision
3. Solution
4. Technology Plan & Platform
5. Customer's Value Proposition

TEAM (Technology Early Action Measures)

Support

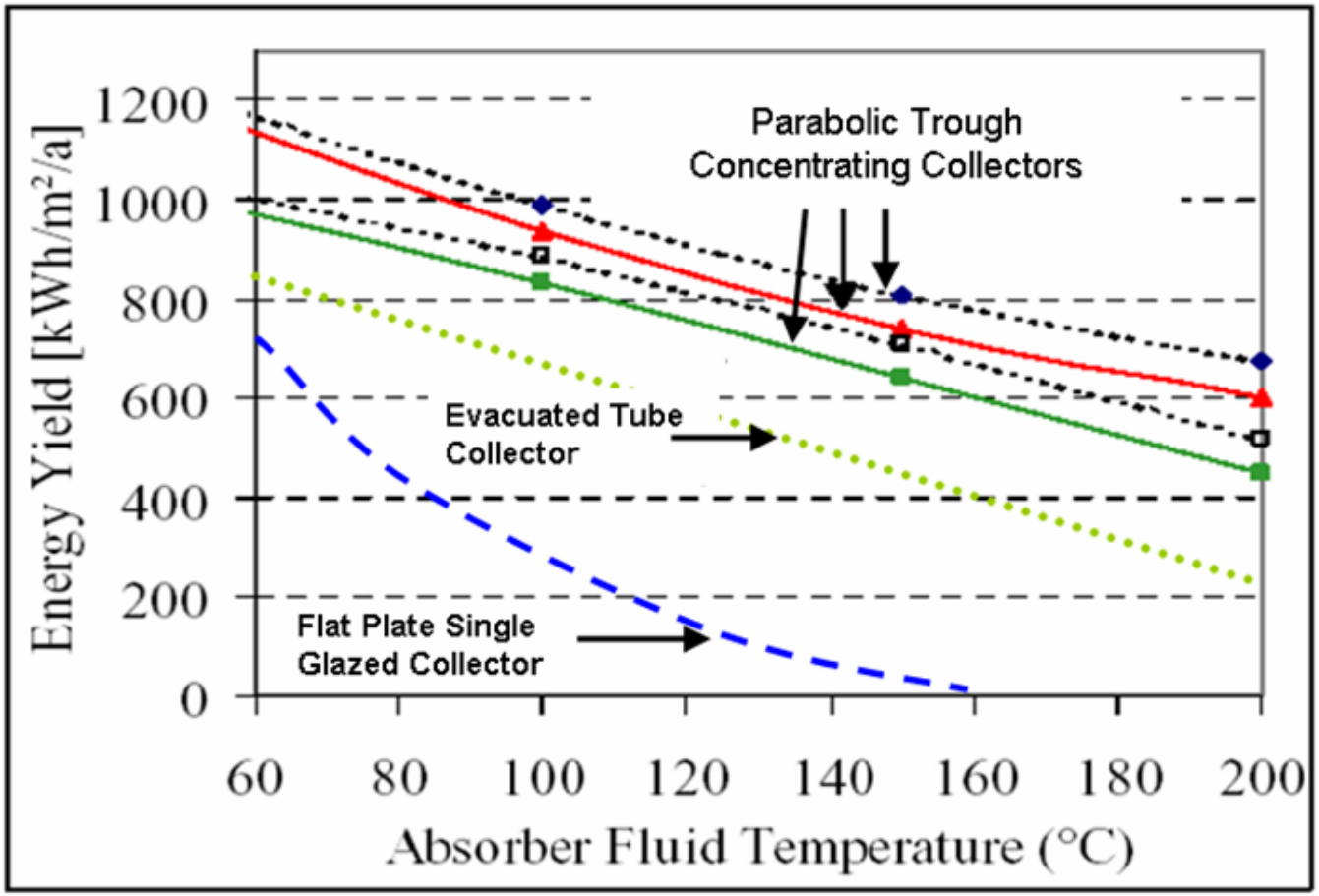
… what it means to Menova

- Project Enabling
  - Financially cross the valley between high cost low volume production to low cost product
- Managed technically by NRCan
  - Testing
  - Performance Analysis
  - Due Diligence
- Networking
- Demonstration Support
  - Schools, CCHT, Roger's House, Residences

From our Early Adopters and Menova…Thank you TEAM ☺

Menova Energy is focused on providing sustainable renewable energy solutions for valued customers

Why CPVT?

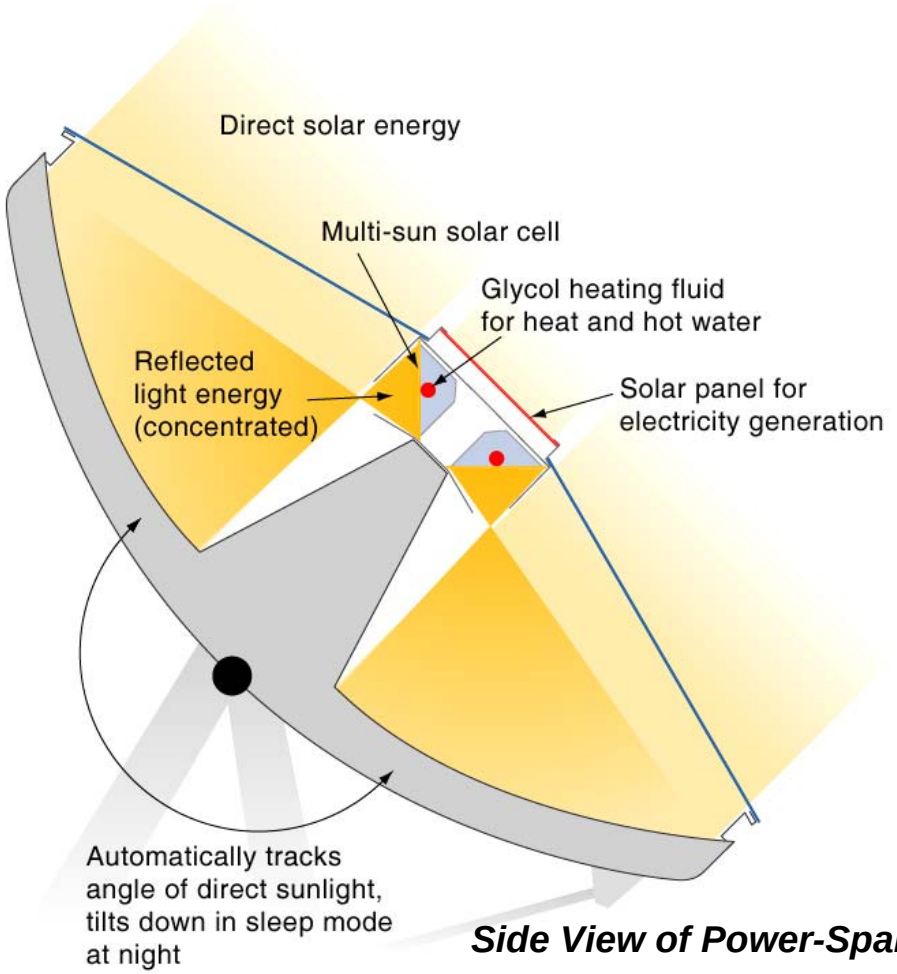


Annual energy yield in Huelva for parabolic trough as a function of the process temperature.

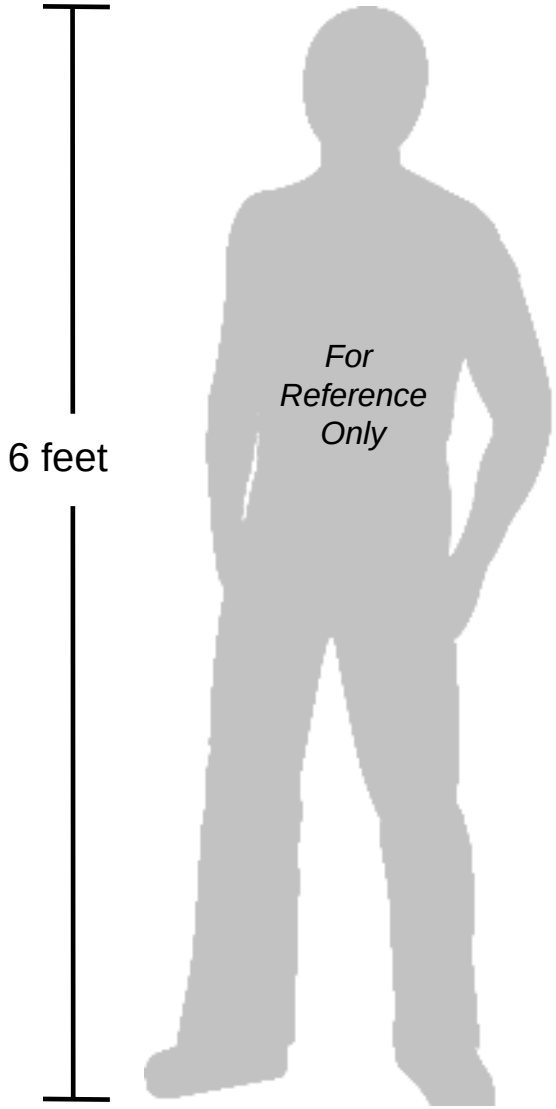
Data Reference: THE POTENTIAL OF SOLAR HEAT IN INDUSTRIAL PROCESSES. A STATE OF THE ART REVIEW FOR SPAIN AND PORTUGAL

EUROSUN 2000, Copenhagen, June 2000

CPVT TECHNOLOGY PLATFORM

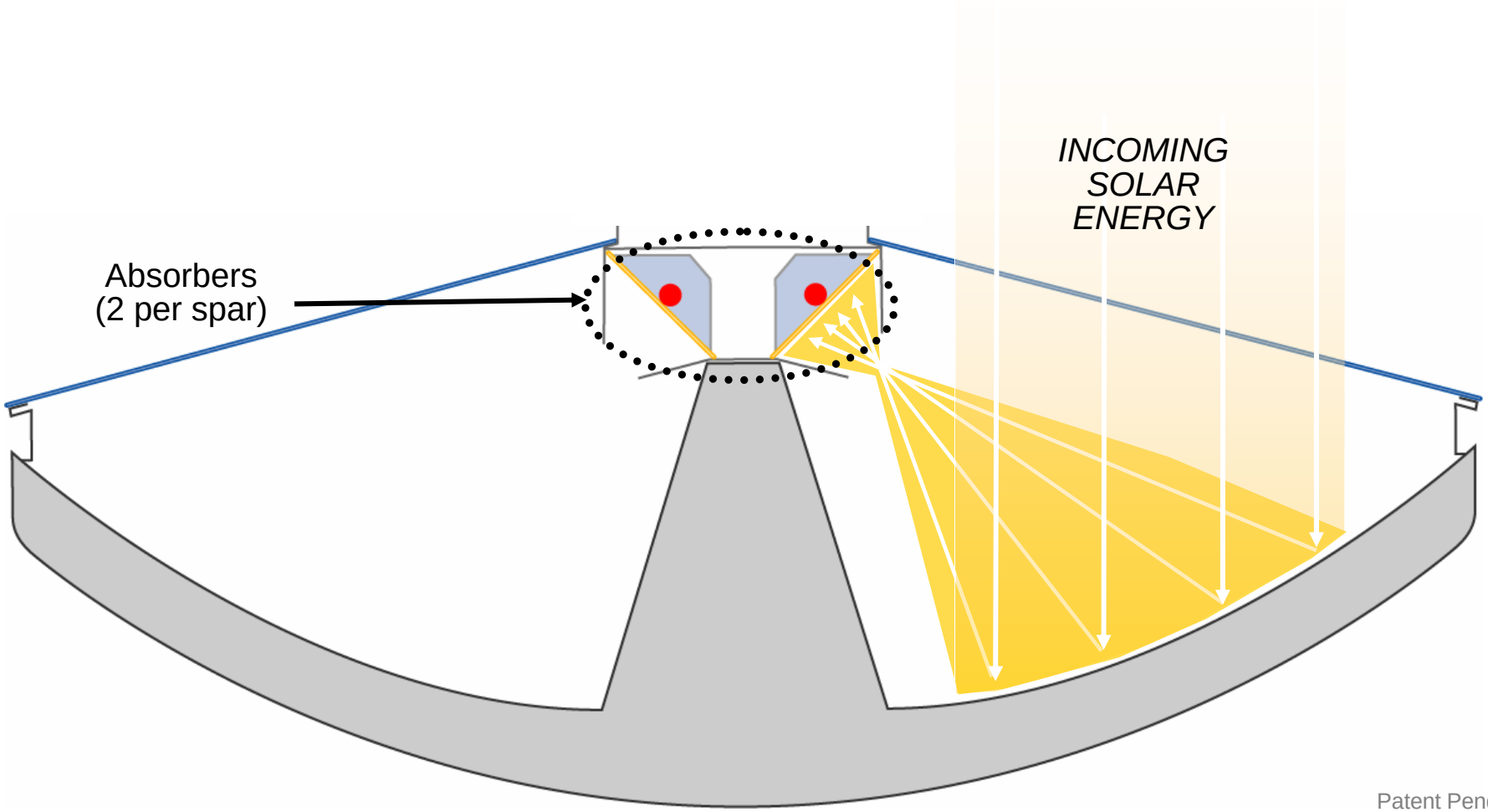


Side View of Power-Spar PS-1



Concentrated PhotoVoltaic + Thermal (CPVT) Solar Energy

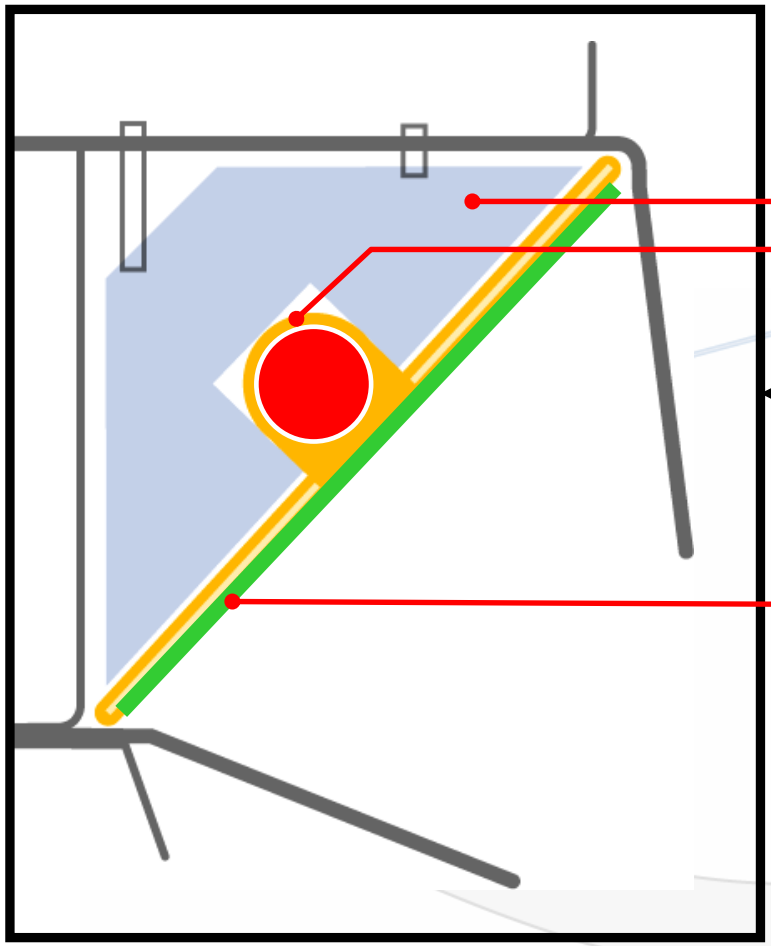
Solar energy is reflected and concentrated onto two absorbers which in turn heats the glycol fluid.



Patent Pending

Close up of the Absorber

– illustrating thermal & solar power components



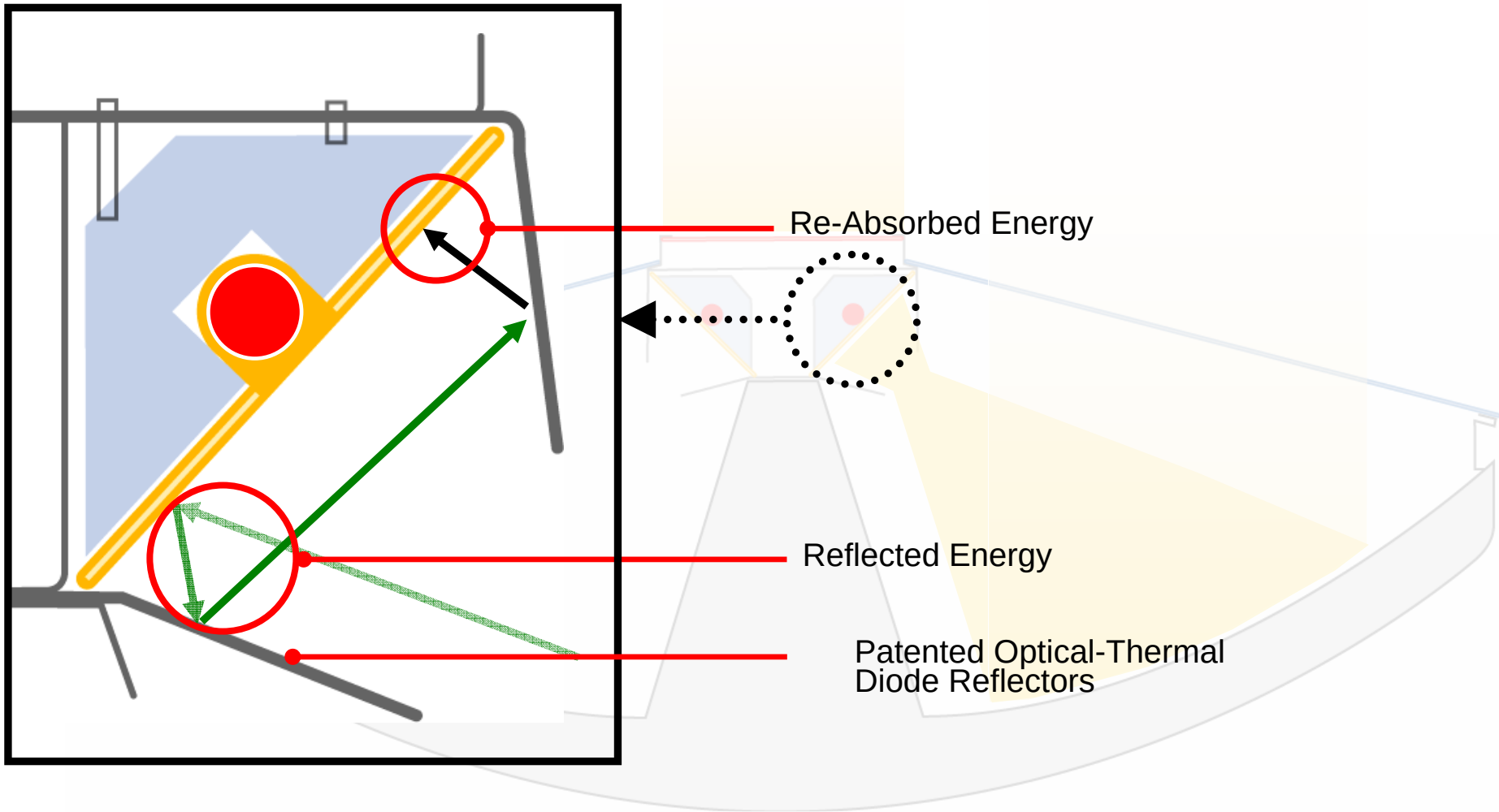
Thermal Insulation

Integrated Thermal Absorber & Cooling / Heating Pipe

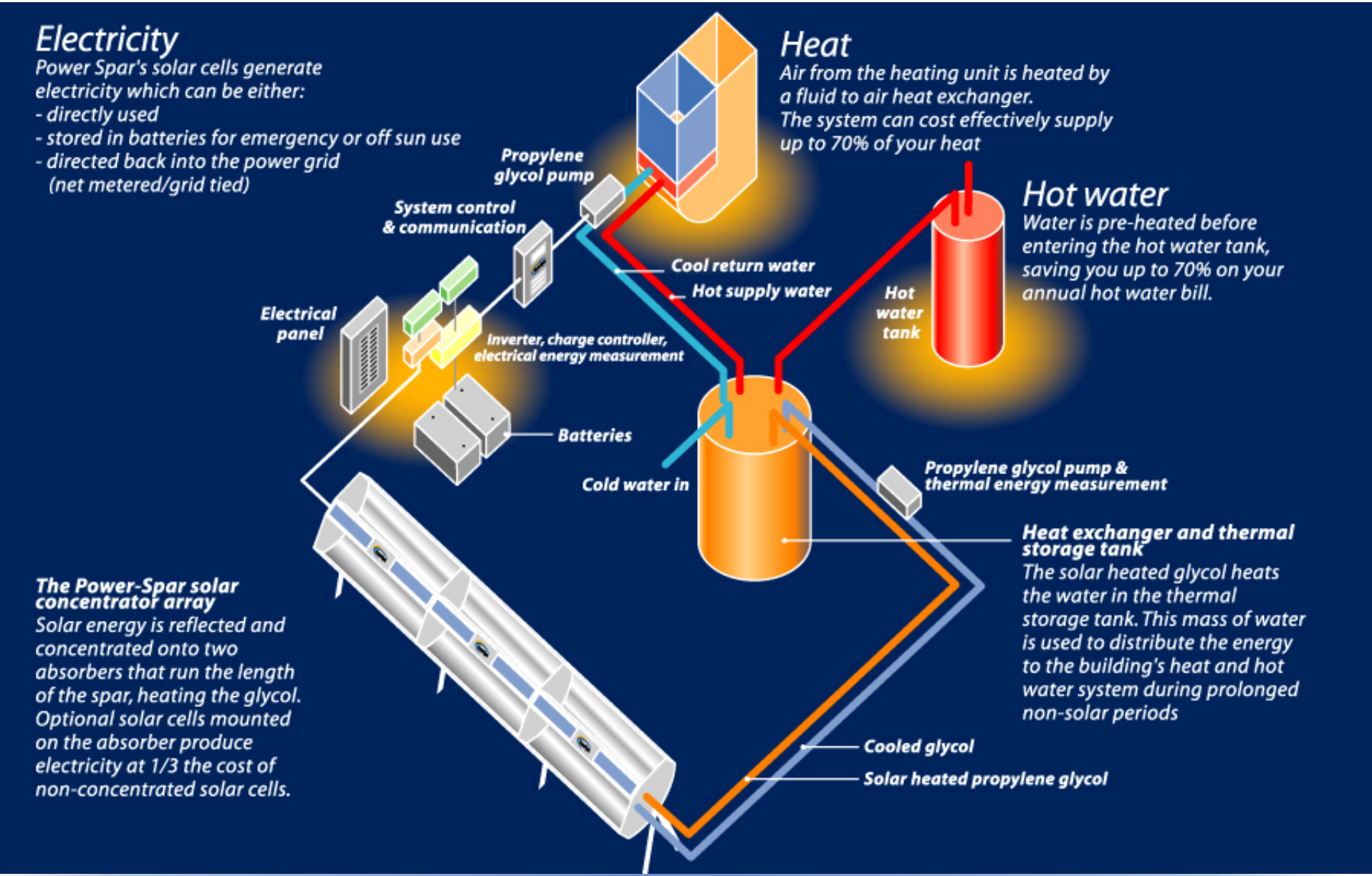
OPTIONAL **20% Efficient** Multi-Sun
PV Cells (3 watts cells yield 9 watts of power)

Close up of the Absorber

– Illustrating thermal energy path. The re-absorbed energy path maximizes the system efficiency

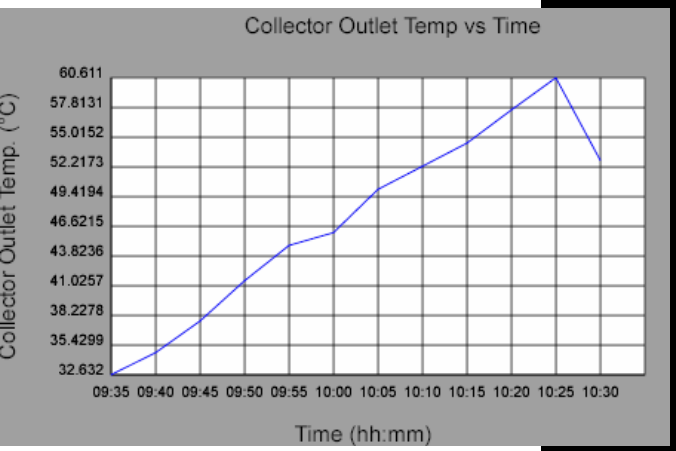


FULL SYSTEM DIAGRAM



Spar-Net: Power-Spar Web Enabled Control & Validation

Jan 23, 2005
-17 Deg C

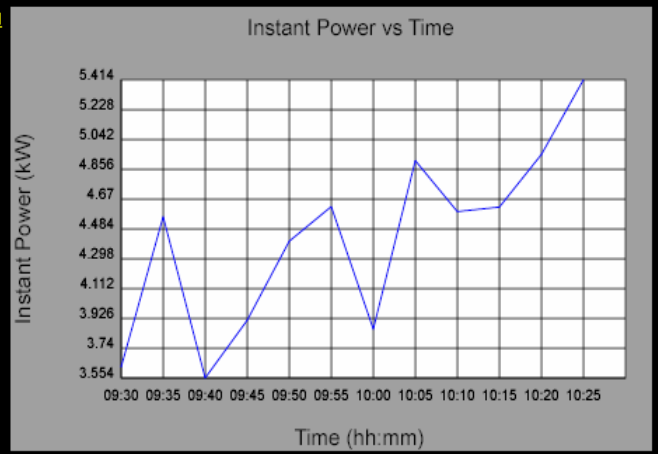


www.power-spar.com

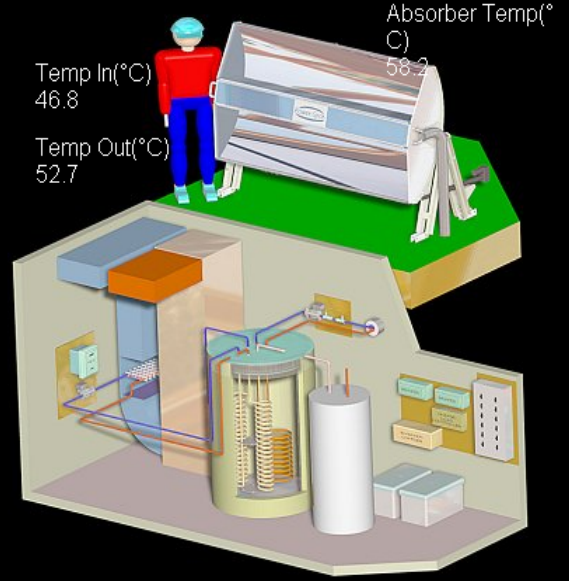
Power-Spar

1-888-636-6821
A Menova Energy Inc. Product,
Made in Canada

Main Screen
Config Screen
Trend Screen



Outside Air Temp. Tank Temp. Instant Power Monthly Energy
Collector Inlet Temp. Collector Outlet Temp. Flow



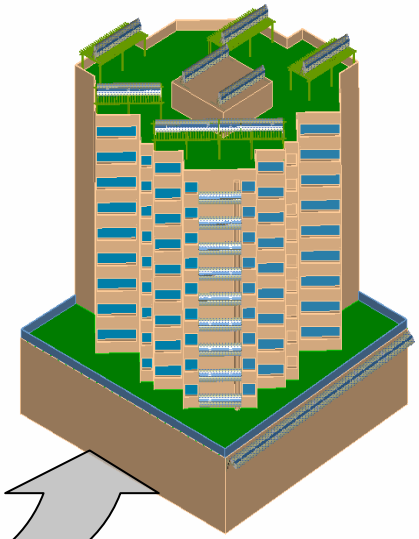
Refresh

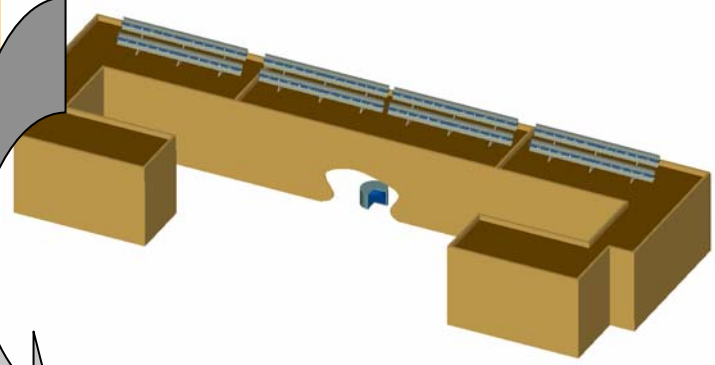
Angle(°) 21.1	Outside Temp(°C) -17.0
Pulses 300	Flow(l/s) 0.146
Pump Speed (%) 33.0	Total Energy(kWh) 146

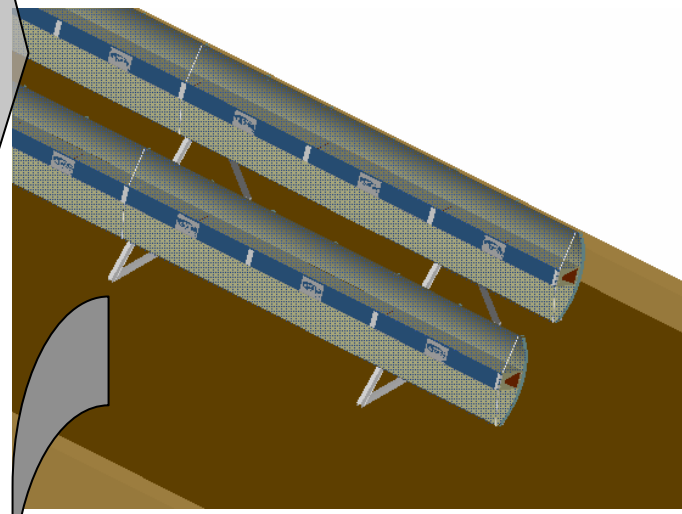
Tank Temp(°C)
56.0

Status: ***System OK***

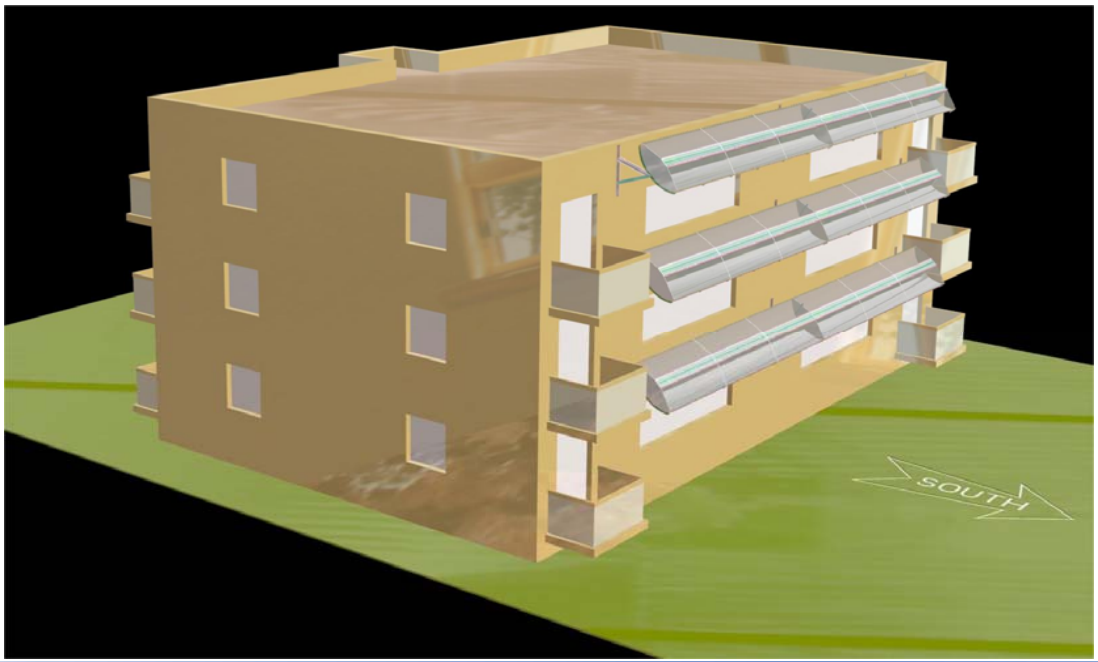
Implementation

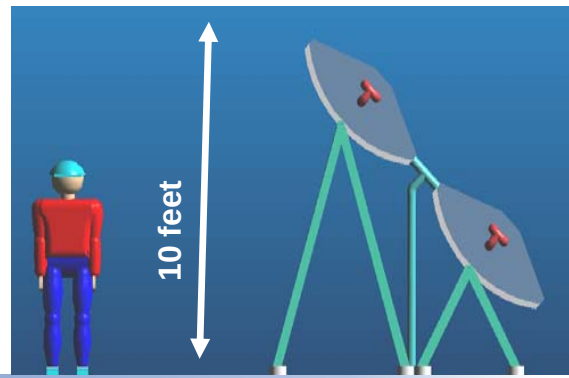




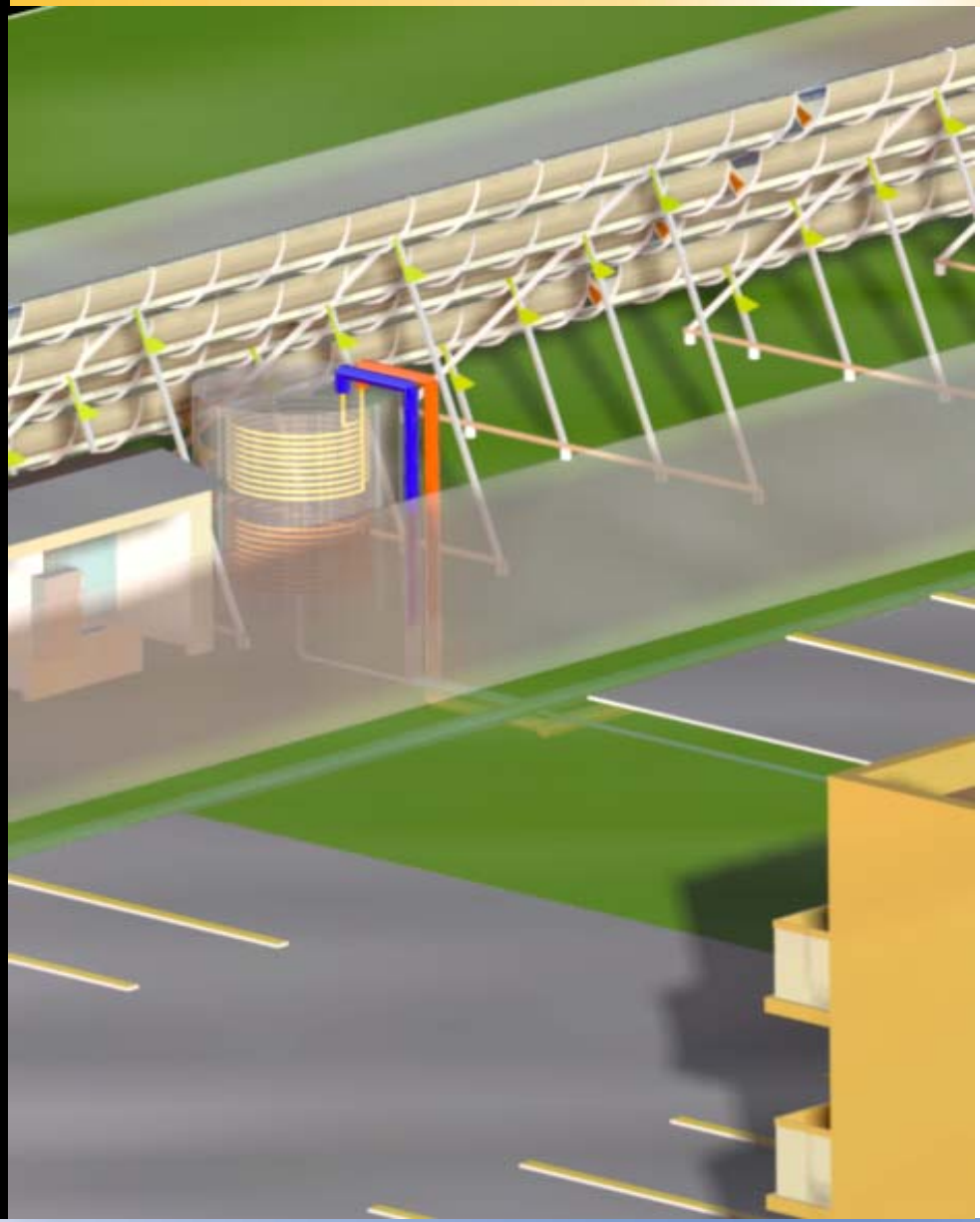


Building Integrated Heat & Power



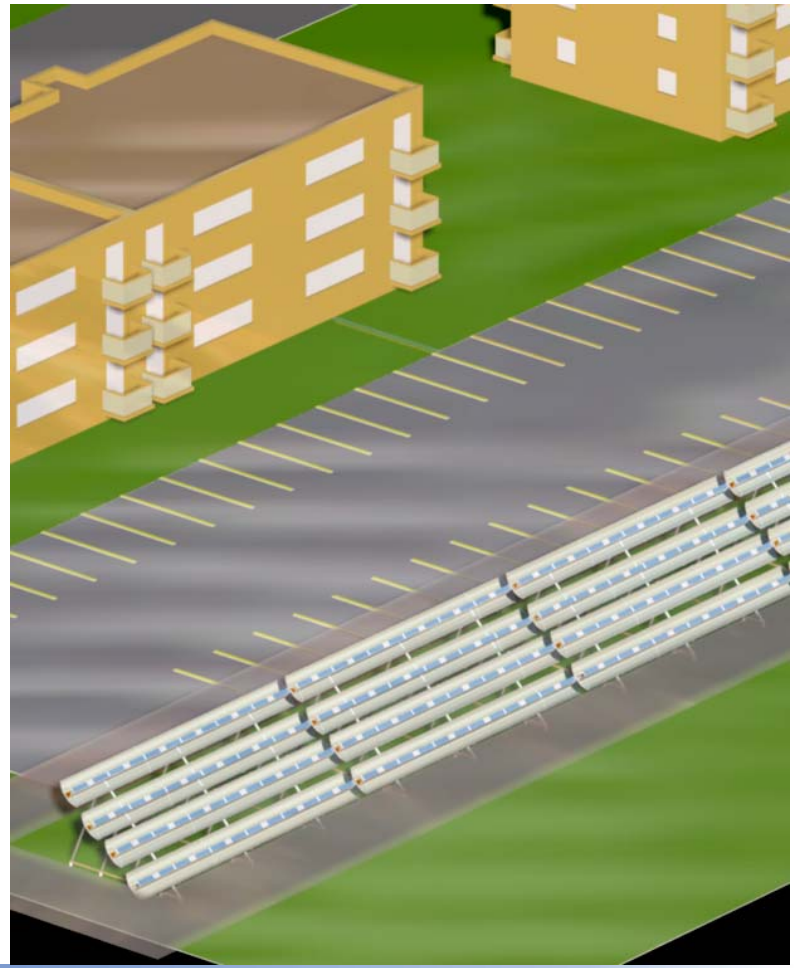


Implementation



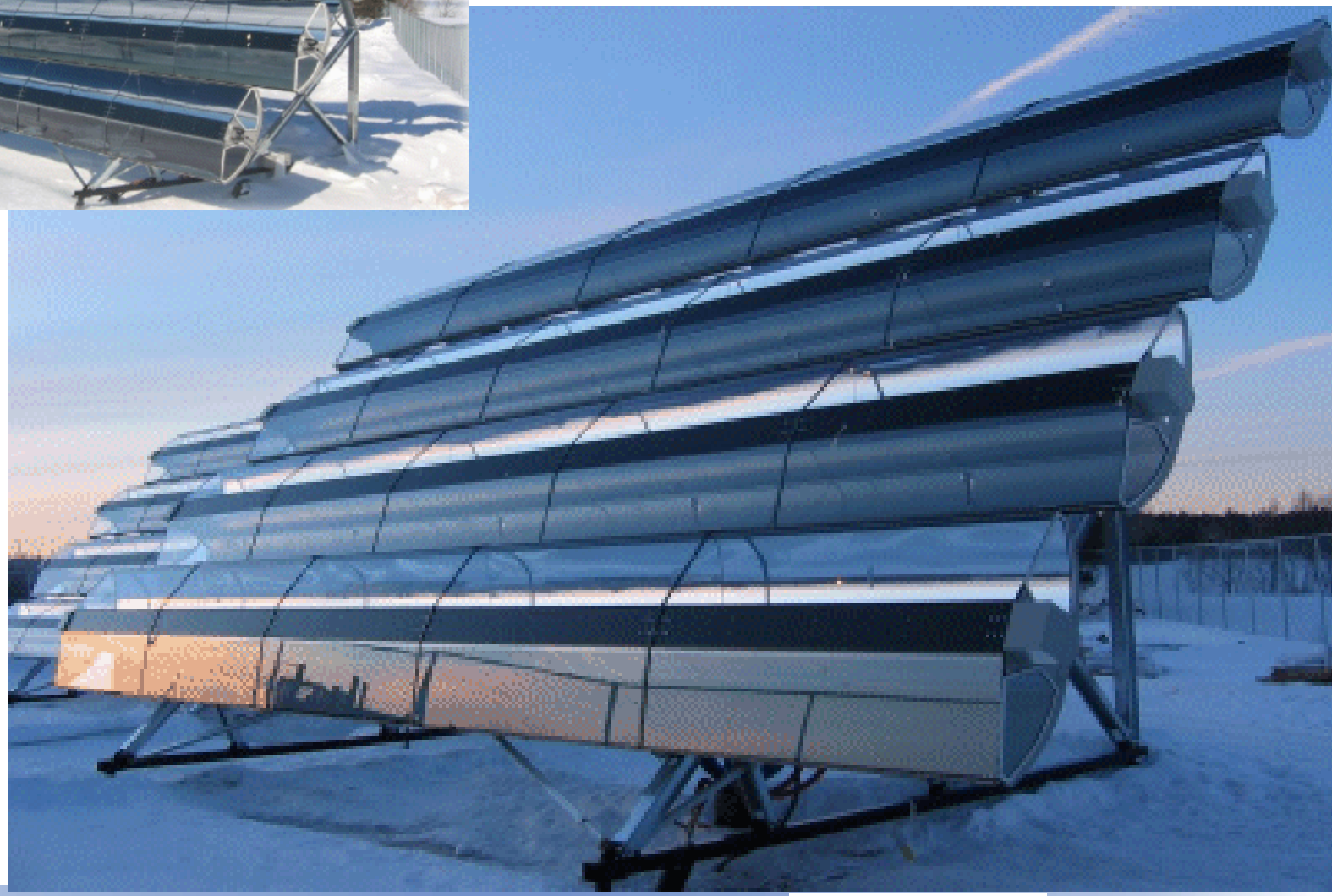
Hydro Easement

Power Plant



Implementation

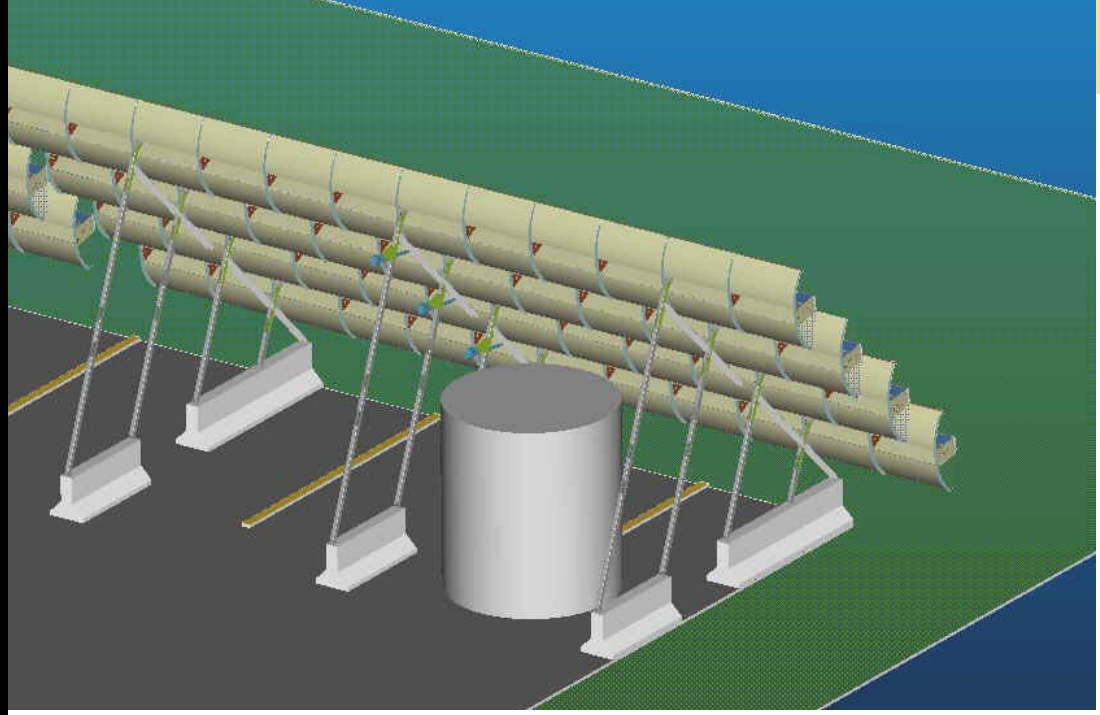
220 Panel 1 MBTU Solar School

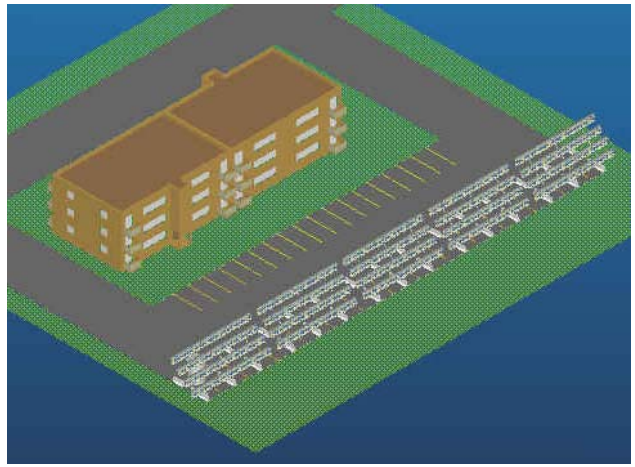


Implementation

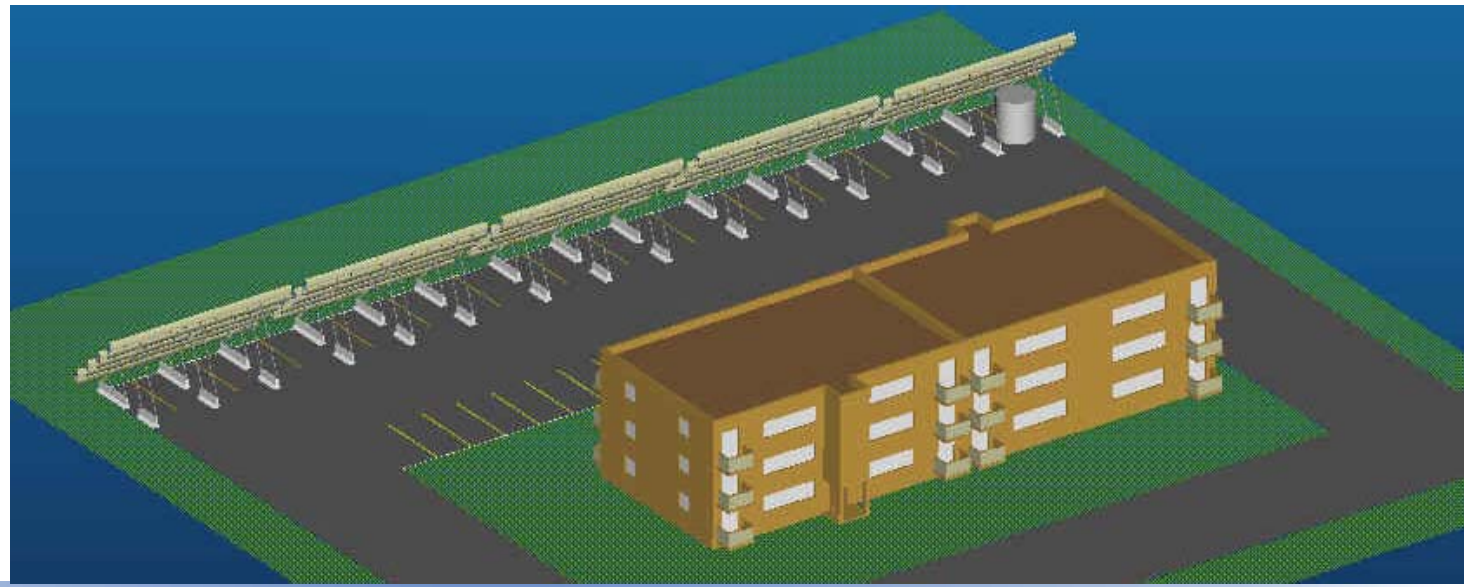
Multi-Resident Condominium

Implementation

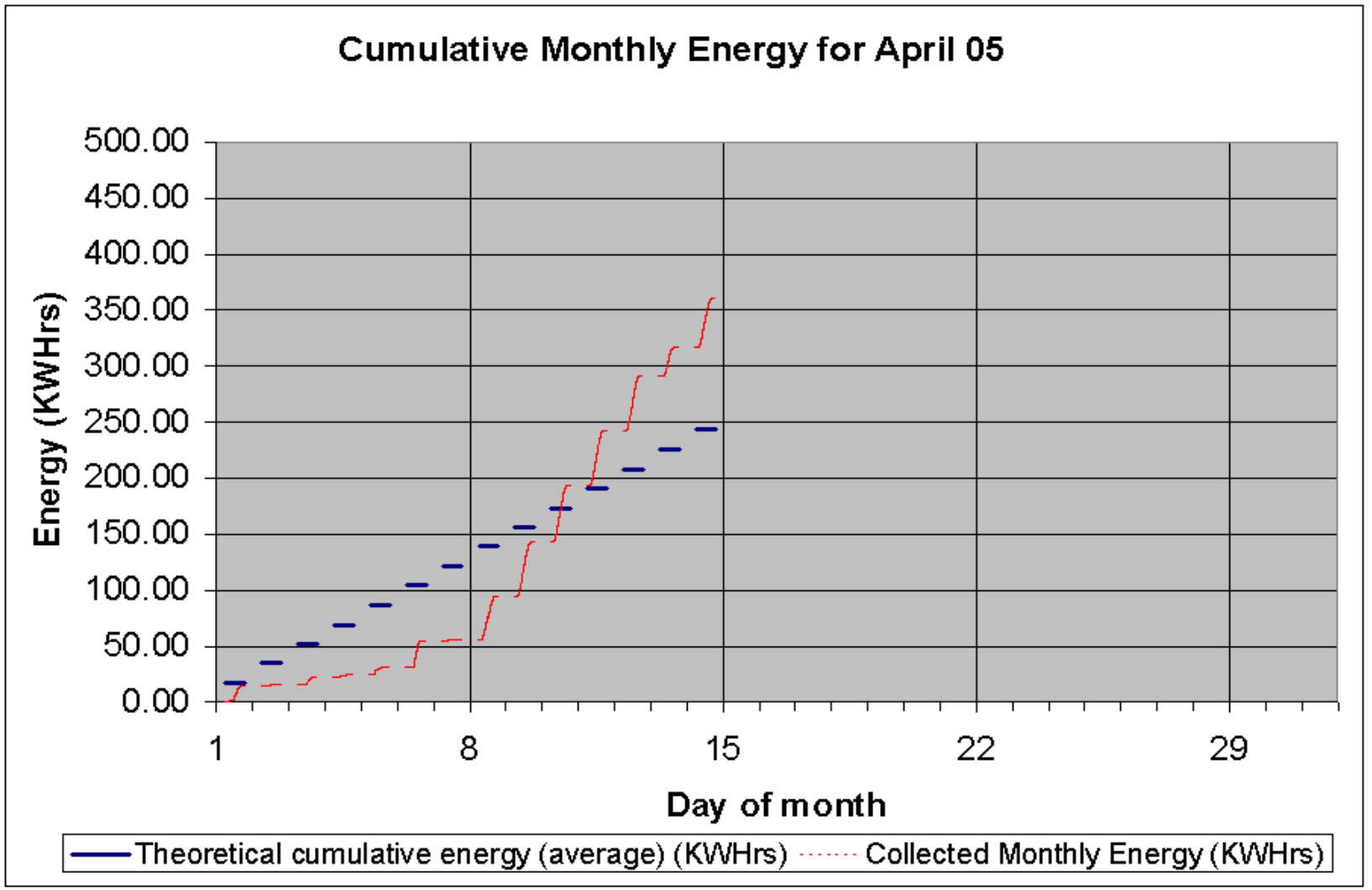




Parking Lot Power Plant



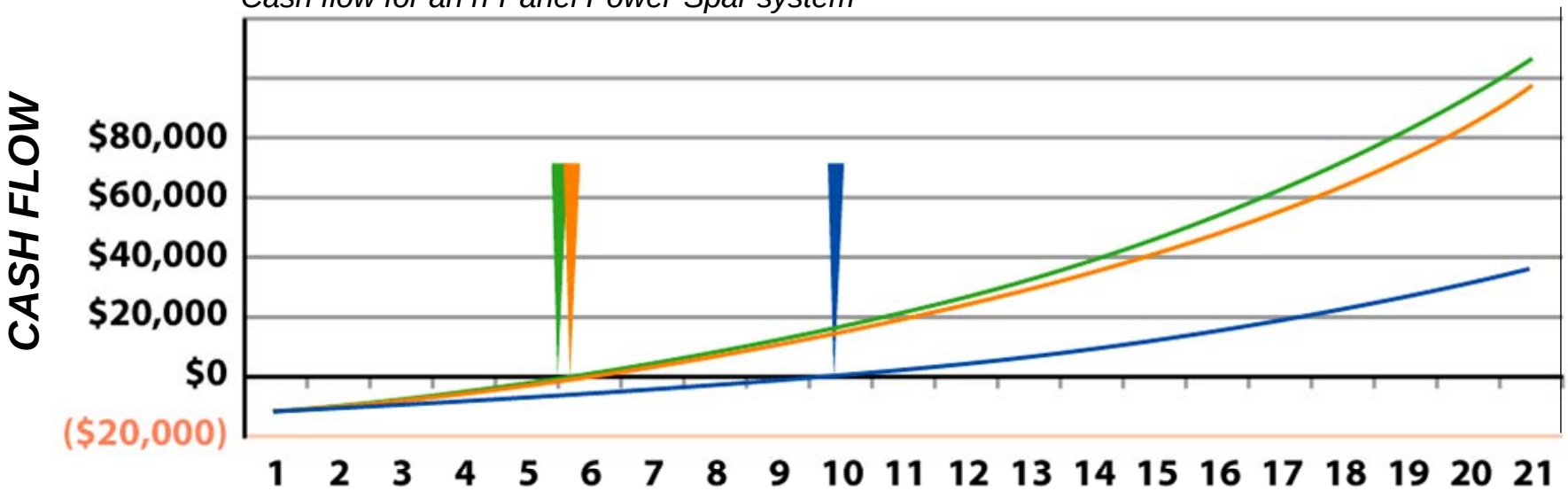
Power-Spar Performance

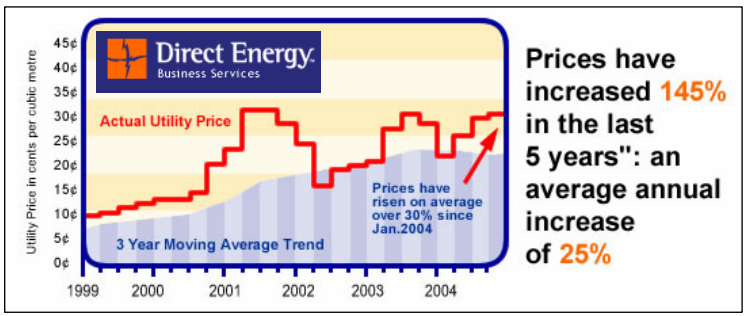


Customer's Value Proposition: Return on Investment

Thermal heat & hot water only, no pool heating or solar cells deployed

Cash flow for an n-Panel Power-Spar system





Prices have increased 145% in the last 5 years": an average annual increase of 25%

- *Propane @ 0.52$/L & 10%/yr. increase*
- *Electricity @ 0.11$/KWH & 10%/yr. increase*
- *Natural Gas@ 0.045$/KWH & 10%/yr. increase*