

Genesis Economic Development (GED)

Fayetteville, Arkansas 72704



<< *Introduces* >>

- => An Advanced Integrated Stand-Alone Solar-Thermal Dish Collector System based technology.
- => Dish Tech. captures and stores Full Radiation - (IR) *Infrared-to-Ultra Violet* (UV) Wavelengths.
- => As a Solar-Thermal System it also readily integrates into Existing Power Grids.
- => Power Supply provided => (1-2 MWh) System with Grid potential range => (208-420 MWh)
- => Full potential energy actualization of entire System is Location Dependent.
- => Notably, this System features the capacity to Release Stored Energy On-Demand (24/7).

GENESIS (GED) MISSION STATEMENT

OUR MISSION IS TO DELIVER AFFORDABLE & CLEAN RENEWABLE ENERGY SOLUTIONS WITH INDUSTRIAL LEVEL MEGAWATT (MWH) SOLAR/THERMAL POWER SYSTEMS NOW CURRENTLY AVAILABLE AND BECOMING PROGRESSIVELY WIDESPREAD

OUR SOLAR-THERMAL SYSTEM AIMS TO ELIMINATE GREENHOUSE GAS POLLUTION AS WELL AS REDUCE OVERALL OPERATING COSTS TO A FRACTION OF WHAT END-USERS OFTEN PAY

=> OUR SYSTEM OPERATES AT A RATE BETWEEN - US \$0.02 - 0.04 PER KWH

OVERALL IT PROVIDES A CONSTANT POWER SUPPLY SUPPORTED BY A HIGH CAPACITY STORAGE BATTERY - THIS SYSTEM IS ENGINEERED TO PRODUCE PURE SINE WAVE ELECTRICAL POWER - WHICH INCLUDES DIRECT OR DISTRICT HEATING + A/C COOLING PRODUCED VIA ABSORBENT CHILLERS & SYSTEM RELEASES THIS ADVANCED ENERGY ON DEMAND (24/7).

Specific Solar-Thermal Collector Data & System Site Installation Overview

Model Dish Size = 30 Meters in Diameter



Hyperbolic Solar-Thermal Dish Collector Design

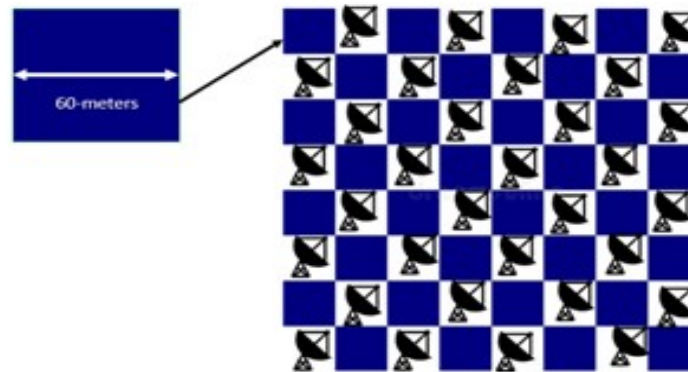
- => This Solar-Thermal (S-T) Dish Collector Technology - features a Mag-Lev Lift Tracking System.
- => The (S-T) Dish Apparatus Frames support the (S-T) Dish & Receiver from a Solid Ground Platform.
- => The Dish-Receiver transfers (heated) fluid which is circulated and converted to steam.
- => The System then distributes with transfer fluid specifications this energy through conduits & lines.
- => The Solar-Thermal heat is transferred to Large Scale (High Heat) Storage Batteries & released on demand.
- => Precise Safety Specifications assure system dependability and reliability.

Genesis on-site Engineers provide Complete System Installation as part of the Sales Contract:

Genesis (GED) initially provides to each new client an engineering team to develop a specific site proposal via a detailed term-sheet. This is inclusive of energy output certifications and all equipment guarantees. A comprehensive maintenance training program further assures optimal system performance.

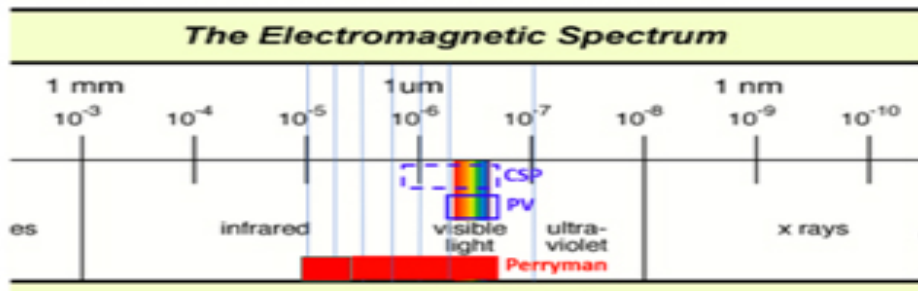
Overview of System's Footprint

Ours is the highest power generation concentration of any solar technology with one square kilometer producing between 208 MW and 420 MW per hour 24/7/365 location dependent



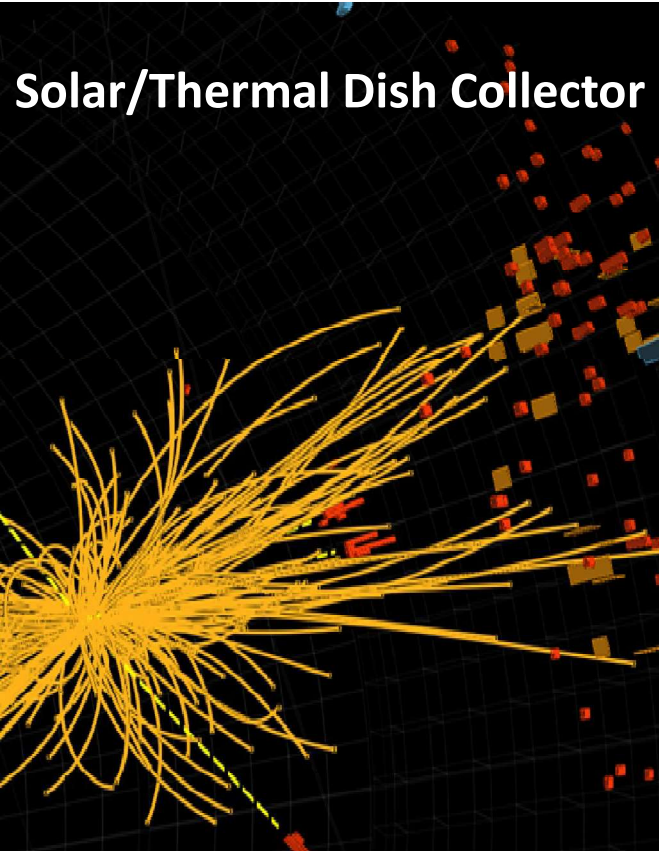
Our solar Thermal Delivers 3-times More Energy
We are the only CSP technology that collect all of the infrared spectrum

Full-Spectrum Solar Thermal tm



Core Section of Collector Dish Design Presented Here

Solar/Thermal Dish Collector



The above Dish Collector transfers high-density thermal energy into large storage batteries – wherein temperatures range from 1400 °C 2200 °C (Celcius)

=> HEAT <=

STORED AT 2200



The technology to transfer and store infrared thermal energy (HEAT) has been developed and available for industrial energy requirements since 2010.

Using large storage batteries enables the shift from daytime power demands on through the night -whereas this *thermal energy (heat)* is collected 24/7.



Promotes the most efficient small gas turbine in the world. The Aurelia® A400 provides 400 KWe with an electrical efficiency greater than 40%. The turbine is a twin-spool, intercooled and recuperated (IRG2) gas turbine. The turbine is of modular construction and is designed to utilize a wide range of fuel, from standard liquid and gaseous fuels to hydrogen, biogas, biodiesel, flare gasses and even synthetic and recovered gases.

Our Solar Thermal System Utilizes The Aurelia Turbine



<https://aureliaturbines.com/videos/aurelia-turbines-introduction-of-the-new-turbine>



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