

SOLAR TRACKING HELIOSTAT

GRAPHITE ENERGY

Graphite Energy uses high purity graphite to economically store heat energy at utility scale. This renewable energy technology enables energy [steam or electricity] to be available on-demand, allowing for a matching energy demand with energy delivery.

Keninnovations designed and developed a solar tracking parabolic Heliostat for reflecting and concentrating the suns rays onto a target for solar heating and storage purposes [heliostats form the solar field as part of the solar-thermal tower system]. The highly accurate design has been engineered to support mirrored glass or alternative reflective mediums and can be modified to ensure that total weight and structural integrity of the product is optimised for the selected mirror surface.

The heliostat has been designed for mass production and the development has been specifically focused on meeting the high volume needs of the solar industry. The design achieves economies through material selections, design for mass production techniques, flat-pack transport efficiency, and modern on-site assembly processes. The entire structure from foundation to the reflected image has been engineered to meet demanding tolerance levels specified by Graphite Energy project engineers.

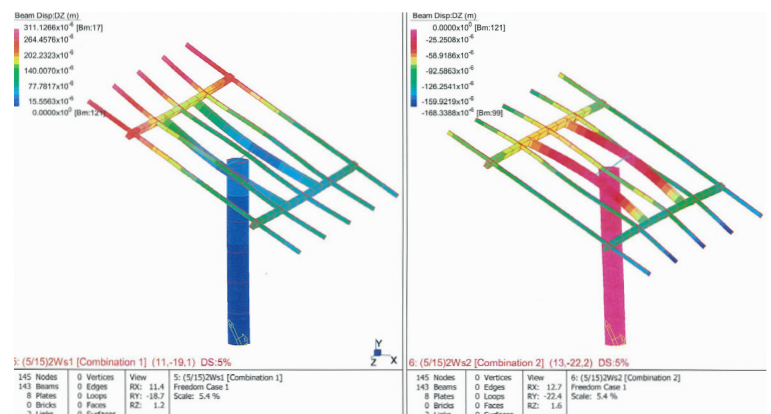
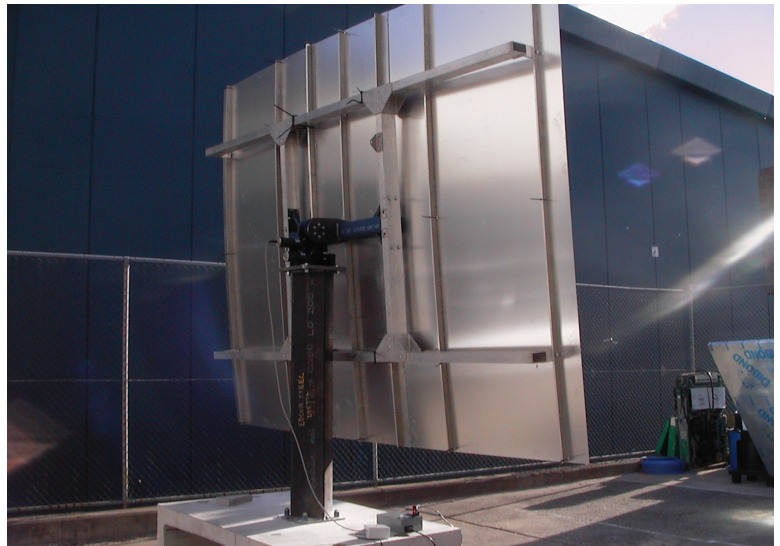
Keninnovations worked closely with a team of technology suppliers and manufacturers to bring together a design built for long term deployment and life time serviceability. Keninnovations worked within tight timeframes and budgets to deliver results.

Outcome

The designs are currently being tested on-site at Graphite Energy trial stations in Australia and are intended for major projects in Europe and the USA. The design has been positively benchmarked against other heliostat suppliers.



*Pier manufactured by Heliotechnic



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