

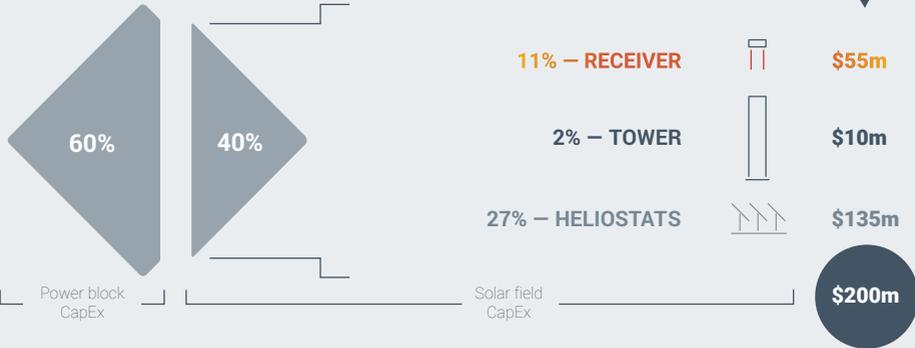


SUNNTICS
harnessing the Sun's power

optimising solar potential



SunnSaaS maximises project ROI by optimising dimensions and specifications to minimise LCoE.



Indicative CapEx values for solar field of a \$500m plant.

Our aiming regime drives higher capacity factor, worth \$2-3m p.a. in increased revenue.

SunnSaaS optimises the aiming strategy, thermal output and dimensions of the receiver – making it more efficient, more durable and less prone to operational error

SunnSaaS calculates solar field performance every hour of every day for a year.

Using SunnSaaS, you get the most efficient dimensions to minimise costs and maximise outputs

Using SunnSaaS enables you to optimise the performance of each individual heliostat, and determine the optimal number and positions of all heliostats in design simulations

Optimise solar potential with Sunntics' SunSaaS and AIRO:



Determine project feasibility much faster and more accurately than any other commercially available tool



Minimise the costs of investment at the same time as we maximise CSP energy output



Enhance project value by driving down the Levelized Cost of Energy (LCoE)



Accelerate the design process for quick and accurate decision-making



Optimise Concentrated Solar Power (CSP) field design and operations in real time



Introduce AI and Software as a Service (SaaS) into CSP plant design and operation



Leverage scarce skills by freeing up people and computational resources

The global CSP market is predicted to reach **\$75bn** by 2030, and could provide

11%

of world electricity output by 2050.

Getting the full potential from capital spend on CSP

CSP will play an important role in reaching the 2050 decarbonisation goals. IEA estimates 11% of global electricity generation will use CSP. However, built-in storage, balancing intermittency and continuous supply only gets CSP technology so far. So, we aimed for a target not seen in other renewable energy systems: accelerated optimisation at an early stage of industry maturity.

To solve current and future CSP challenges, drastically improve performance and disrupt conventional wisdom, we have redesigned CSP design and operation from the inside out. The result? Two SaaS products we're incredibly proud of.



SaaS

SunnSaaS for AI-based optimised design and assessment of CSP projects

- Feasibility assessment of potential sites and technology options
- Detailed design, performance and cost modelling for tendering & evaluation
- Presented on an intuitive, user-friendly interface.

AIRO control module optimising heliostat aiming to maximise thermal output

- Continuous optimisation of heliostat positions to maximise solar-to-thermal energy transfer
- Real-time optimisation of the aiming regime and solar flux distribution to maximise energy transfer
- Enhanced receiver reliability and durability.



We support our clients with AI-based tools for:

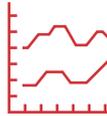
Initial evaluations of potential projects, including identifying any 'red flags'



Development of technical proposals and tenders for site selection and pre-qualification ...



... including detailed modelling to determine the best solution from alternative scenarios



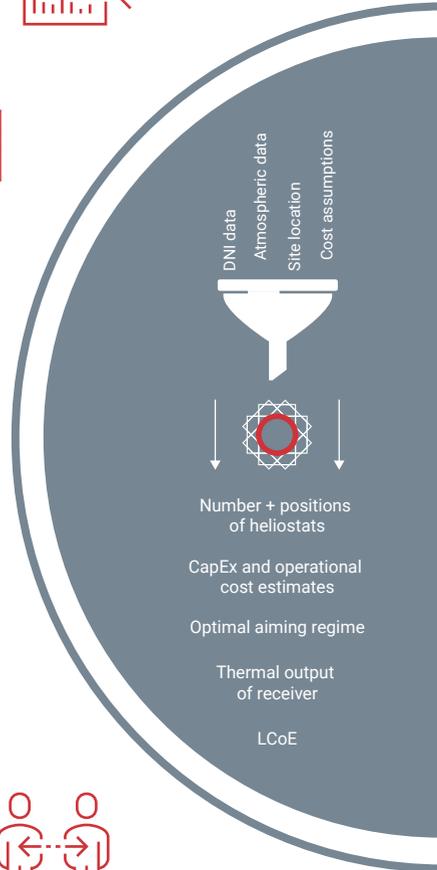
Assessing and verifying expected performance and thermal output of initial technical designs and tenders



Estimating LCoE distribution and overall project value



Training and support to get you up to speed with the user-friendly interface as quickly as possible



“

This is the first - and so far only - commercial toolset providing fast, accurate optimisation of performance and cost for every hour of the year.

”

Dr Manuel Quero, CEO Sunntics and 12 years CSP veteran



EARLY ADOPTER OFFER



The **first five organizations** indicating that they are willing to work with our tools will get their **engineers' familiarisation training for FREE**

Please contact us by phone **+44 7895 624 767**
or e-mail **sales@sunntics.com**

This deal expires November 30, 2019



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