

EXPORT CONSTRAINT MODELLING

RENEWABLE ENERGY SYSTEM OPTIMISATION SERVICES FOR PROJECTS WITH LIMITED UTILITY NETWORK CAPACITY

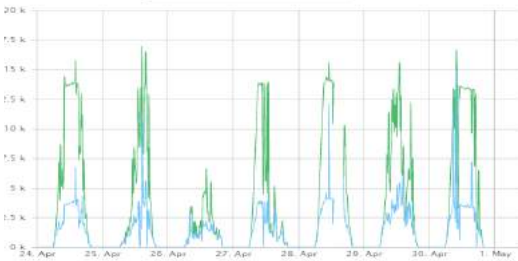
Yieldworks is a modelling system developed by LHW Partnership LLP to assess and optimise the most effective PV system array sizing. It accommodates a combination of export constraint limitation, on-site projected or historic half hourly consumption and predicted solar PV yields.

Using industry leading modelling software and shade analysis technology a solar PV project can be modelled from total export to constrained export scenarios, allowing for shading, on site demands, private wire and future peak generation storage offset.



CASE STUDY

EXPORT CONSTRAINT MODELLING ON FOUR SITES WITH HIGH CONNECTION COSTS



LHW Partnership LLP were instructed by Savills (UK) Ltd. to undertake export constraint modelling for four sites identified as being suitable for grid-connected solar PV systems. Grid connection applications made to the local DNOs returned high connection costs making the advancement of the projects uneconomical. As part of the Yieldworks assessment the annual half hourly import data for each site was modelled against the site specific predicted generation profile and the results indicated that with the integration of export limiting technology the development of the projects would be feasible.

SERVICES

LHW PARTNERSHIP LLP OFFERS THE FOLLOWING SERVICES ASSOCIATED WITH EXPORT CONSTRAINT MODELLING

- + Maximum Non-constrained Yield Analysis
- + Shading Appraisal
- + Additional PV Capacity for Existing Intermittent DG
- + P50 / P75 / P90 / P95 Yield Assessments
- + ESOS Grade Energy Management Surveys
- + Inverter Settings Verification
- + Site Consumption Modelling
- + Hourly Load Variance Sensitivity Analysis
- + Constrained Yield Appraisals
- + Energy Management Improvement Audits
- + Electric Renewable Heat Technology Solutions (Heat Pumps / Storage Heaters)
- + On-site Energy Storage Options
- + Investment Appraisals
- + Future Development Strategy Modelling

