CAPEX reduction through state of the art optimization

Reduce your wind farm CAPEX and Cost of Energy with our CableArchitect™ software tool, delivering an optimized cable layout.

Our solutions
CableArchitect™ uses state of the art optimization to cut the CAPEX and lifetime costs of inter-array and export cables for your wind farm.

By combining the knowledge gained from years of working within the wind industry, including on some of the world’s largest wind farms with cutting edge data science techniques, CableArchitect™ designs cable routes that deliver lowest cost of energy.

Our optimization services comprise:
• Cable layouts optimized for your chosen layout.
• Flexible inputs to best match your internal processes.
• Confidence in outputs, since inputs are models trusted by you.
• Tailored process to aid design decisions whatever the stage of development.
• Experienced team of experts in wind farm engineering and optimization, to guide you every step of the way.

Staged delivery and pricing models to suit your needs, ranging from simple software option to a bespoke value priced solution.

Benefits

Improve financial return:
• Optimize the costs associated with cabling, with an average of 4km cable length saving.
• Reduce the CAPEX for your wind farm, with CableArchitect™ delivering savings of ~6%.
• When used in conjunction with WindArchitect™ the reduction in cable capital cost unlocks a reduction in the overall cost of energy for the wind farm.

Explore the trade-offs between technical and economic design criteria:
• Use the tool to gain insights into the trade-offs between the various key design criteria – and the value of those trade-offs.

Streamline the development process:
• Save time for your electrical engineers by drastically improving the efficiency of the cable array design process, allowing your team to focus on the outcomes rather than the process itself.
**References**

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