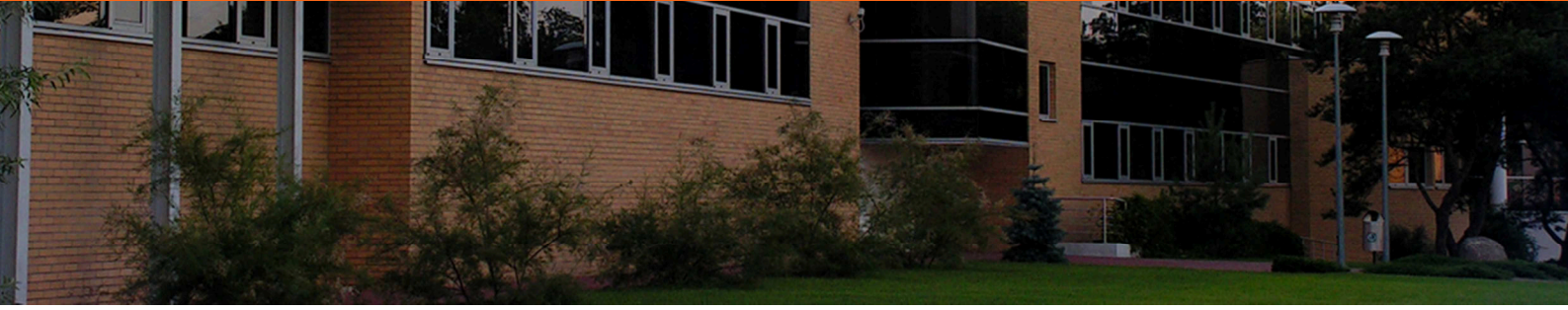


Case Study

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Local Authority Commercial Buildings Solar PV Analysis and Installation Management

The Challenge

The client, a local authority required solar photovoltaic system appraisals for their commercial properties. The long term outcome of this was to install solar photovoltaic panels on suitable properties and manage the process of installation.

The Solution

In this detailed study, we carried out the following activities:

- Desktop analysis of two leisure centres and two industrial estates
- On-site inspection of potential roofs and potential connection points
- Full energy audit and renewables feasibility study of leisure centres to identify other areas of energy reduction.
- Solar photovoltaic system sizing and performance modelling to ensure that the maximum possible output and financial benefit was gained.
- Supply chain analysis to determine practical installation timelines, anticipated costs and supplier and installer flexibility
- Business and financial modelling to calculate return on investment and net present value of different investment strategies.

The Outcome

The study put the client in a position to make an informed decision on the best way to invest in solar photovoltaic panels on its commercial stock, ensuring the maximum benefit could be gained whilst taking account of all risks associated with the investment. This led to the installation of two 50kWp systems on the leisure centres and four 25kWp systems at the industrial estates. The installation was project managed through carrying out the following activities:

- Additional financial analysis
- Distribution Network Operator (G59) application process
- Advice on planning requirements
- Identification of suitable companies to tender through a Pre-Qualification Questionnaire
- Co-ordination of the tender process, including the development of project-specific tender requirements and assessment of returns
- Building control applications
- Feed-In-Tariff registration
- Post-installation checks.



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