

# STEEL PERGOLA CASE STUDY

Solar Structures - re-imagining Solar PV

solarstructures.ie

## OBJECTIVES

The client had a shortage of roof-space on their home to meet the number of panels that they were hoping to install. After discussions with their SolarPV installers, they came to Solar Structures to design a solution that would allow them to install some additional panels while upgrading their existing patio space..

We discussed various options with the client and decided that the the client required 21 panels. The site was very complicated due to access restrictions.

## SOLUTION

We designed a bespoke steel pergola following the design of the pre-existing patio. The advantages of this solution were that the panels would be optimally orientated and that the patio would be upgraded. That the span of the panels would be carried by a steel purlins and that our own bespoke brackets would be used.

## BENEFITS

### 1. Additional solar PV capacity

We were able to give the client some additional Solar PV capacity that would not have been possible otherwise.

### 2. Provide a covered patio

Another benefit of our solution is that the client now has a covered area where they can enjoy their patio in all weather.



## AT A GLANCE

### CHALLENGES

- Limited roofspace
- Additional capacity needed
- Site specific requirements

### BENEFITS

- 21 panel Solar array
- Upgraded patio space
- Optimally oriented array



## RUAIRÍ Ó NÉILL

CEO Solar Structures

“Our goal is to re-imagine Solar PV deployments, allowing Solar PV panels to be installed almost anywhere.”