

SOLAR ENERGY ON GRID CONNECTION FAQ'S

Following current legislation it is generally illegal to connect a solar system to the grid (Electrical Mains Supply) if the Solar system is able to feed power into the grid. This legislation also provides for prosecution with fairly harsh financial penalties for unauthorised connections.

It is still possible to connect to and feed power to the grid from a Solar System providing a strict set of acceptance criteria has been met, this will include but is not limited to managing the installation as an independent project with relevant Planning permissions, Installation and connection

For the householder and small producer who's aim is to minimise electrical power costs the above option is neither practical or cost effective. The Solar industry has therefore developed Solar electric systems to allow private householders and small producers to install systems that may power back to the grid and comply with current requirements.

There are three practical options available that will allow a legal and cost effective solar install,

- 1) Fit Solar modules using a grid connect inverter (Mains power interface unit) together with a control and monitor unit that measures the power being produced by the Solar system, and the power the house is consuming and effectively switches off the excess Solar production as and when necessary to ensure that no power is fed to the grid. These systems are known as ZERO Inject.
- 2) Fit an Off Grid Inverter with a small battery that makes the Solar modules independent of the grid connection, with this installation there is no direct connection between the solar Modules and the Grid electricity so guaranteeing no power is fed back to the grid. This system is known as Grid Zero
- 3) Install a Hybrid grid Solar installation which can work independently from the grid and will only call upon the Mains power supply as necessary to provide auxiliary power during periods of low sunshine or high demand for power in the house, This type of system whilst being the most expensive is also the most efficient as it will allow consumption of 100% of solar power production. This system also has the added benefit of providing limited standby power during mains power failure.

The above options will require a Boletín de Electricidad for the installation, which is confirmation that the installation has been installed to and meets current safety and electrical legislation. The Solar system must then be notified to your power supplier (New contract to be issued) and the Local Authority for inclusion on the appropriate register at the Ministry of Interior

Solar Sky's qualified and Spanish certified engineers can install any of the options above complete with amendment to your existing Boletín de Electricidad allowing registration of your system with the appropriate authorities.

Solar Sky would be happy to provide inspections of existing Solar installations and advise or arrange on requirements necessary to meet the necessary legislation (NB this service is chargeable).

The information provided in this document is our understanding of the current legislation, this is liable to change at any time, and therefore we cannot accept any responsibility for the accuracy of the information contained at the time of reading. Please consult directly with our advisers for the current information or legal status