

## Survey of Solar PV (Photo Voltaic) co-existence with Amateur Radio installations.

Now that we are out and about more many will have noted the changes which have been subtly occurring and one of these is the increased prevalence of roof mounted Solar Panel installations. Technological advances and simpler installation mean that the majority of new installations are of the PV (Photo Voltaic) type rather than the passive water heating previous generation.

Both internet discussions and written articles highlight situations where problems of unwanted interference has arisen and there is emphasis on the difficulty in proving the source is not compliant and costs associated with retrofitting a resolution.

What is undocumented is the number of installations which are successful in doing their task and not creating a problem and to this aim perhaps a few minutes of time can be allocated to answering all or some of the questions and responding via email to the address below.

Collected information will base solely on the replies to the questions (Source identity removed) and appreciate the information from both licensed Amateurs and Short Wave listeners.

**If you have a Solar PV system operating at your QTH the following information would be valued.**

Have you noted an increase in Radio interference when system is operating ?

If yes what are the Frequencies most impacted ?

Number of Panels in System ?

Optimiser Configuration (If known) ?

Battery Storage ?

System Manufacturer ?

What is the approximate distance from your most impacted Antenna to the Solar System?

Can you determine the Frequency spacing between peaks in noise across the most impacted Bands ?

Propagation Characteristics aside is there noticeable change in Background noise between Dark and Bright ?

Any other information you consider relevant ?

**For situations where the system is external to your QTH the following:**

Propagation Characteristics aside is there noticeable change in Background noise between Dark and Bright ?

Bands or Frequencies most impacted ?

Can you determine the Frequency spacing between peaks in noise across the most impacted Bands ?

Has it been possible using portable Directional Antennae (Magnetic Loop or Ferrite Rod Antennae) that the source is in the direction of the solar System ?

What is the approximate distance from your Antenna to the Solar System ?

Any other information you consider relevant..

Thanks in Advance,

Information to Liam EI4GB

via the EMG group email [emc\\_group@irts.ie](mailto:emc_group@irts.ie)