








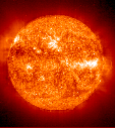
**PV Installations Panorama in Greece  
for 2008 - 2011**

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-  Database for PV Installation with Monthly Measurements & Values
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# Data Process & Formation of Mathematical Models & Algorithms



# Mathematical Models & Algorithms: Geographical Locations

- **Linear Algorithm of Solar Radiation w.r.t. Geographical Amplitude** and Computation of a **“Realistic” Expected Annual Power Production**
- **Linear Algorithm of Solar Radiation w.r.t. Geographical Longitude** and Computation of a **“Realistic” Expected Annual Power Production**
- **Generalised Algorithm of Solar Radiation w.r.t. Geographical Coordinates** embodying the **Altitude & Coastal** and **Continental** Location

# Mathematical Models & Algorithms: Additional

- **Power Recovery** Methodology per PV Park & Mathematical **Extrapolated** Examples
- **Computation Algorithm** for the Monthly Power Output, retrieving from the **Total Power** Production for a PV Park
- Mathematical **Model** for the **Calculation** of **Annual Power Production** per PV Park, using the **2<sup>nd</sup> Quatrimestre** of **Maximum Solar Radiation** (Q.M.S.R.; summer period) and Correlation, for **any** Ground-mounted or Tracking PV Park **Systems Type**
- Mathematical Adaptation between 1<sup>st</sup> Semester & Annual Power Production, using **Fit-Function Algorithm** Approximation
- **Semi-Empirical** Mathematical Constant, employing the **Min-Max Average** in Greece per Month, for each System Type of PV Installation
- **Linear & Logarithmic Functions** & Fit to Curves for the **Computation** of the **“Pragmatic” Expected Power Output** with respect to the **Nominal Power** for any PV Park, ranging from **10kW** to **100MW** Installations

A large, 3D-rendered Euro symbol (€) is the central focus, appearing to be constructed from a blue circuit board. The symbol is set against a background of glowing blue lines and a faint, circular gear-like pattern. The overall aesthetic is high-tech and digital.

**With Compliments**