# Predicting Power Output of Solar Panels in Egypt

## Goals

- Apply a complete Data Science process

- Apply the knowledge acquired in the Data Science course

## Description

Knowing the power output of solar panels (Photovoltaics) in advance helps to regulate the energy consumption. Several studies have been established to predict the solar panel power; However, this year, Egypt has a climate change; which makes the solar panel power prediction a new problem. The aim of this assignment is to come up with an implemented process that helps predicting the power output of solar panels located in Egypt based on several features that are taken recently. Analysis, discovery, pre-processing of the dataset and the interpretation and validation of the model are required.

## Delivery

You are requested to work alone and submit:

1- A described process: From Step 0 (Frame the problem) to Results.

   a. State of the art summary (of recent work).

   b. Discovery and Pre-processing.

   c. All the algorithms that you have tried and their results.

   d. Analysis of the results.

2- The source code.

To get the whole grade of a point, you have to clearly present it and answer the questions related to it. You can present your work form Jupyter notebook or do a presentation or report. Find what is convenient to you to communicate your ideas.