Solar and Eolic Energy Trainer

With Data acquisition and control system!

LT - AE - ES

Grid Tie Connection

12V 110W

PTS F1616

SCADA

200W AC/DC
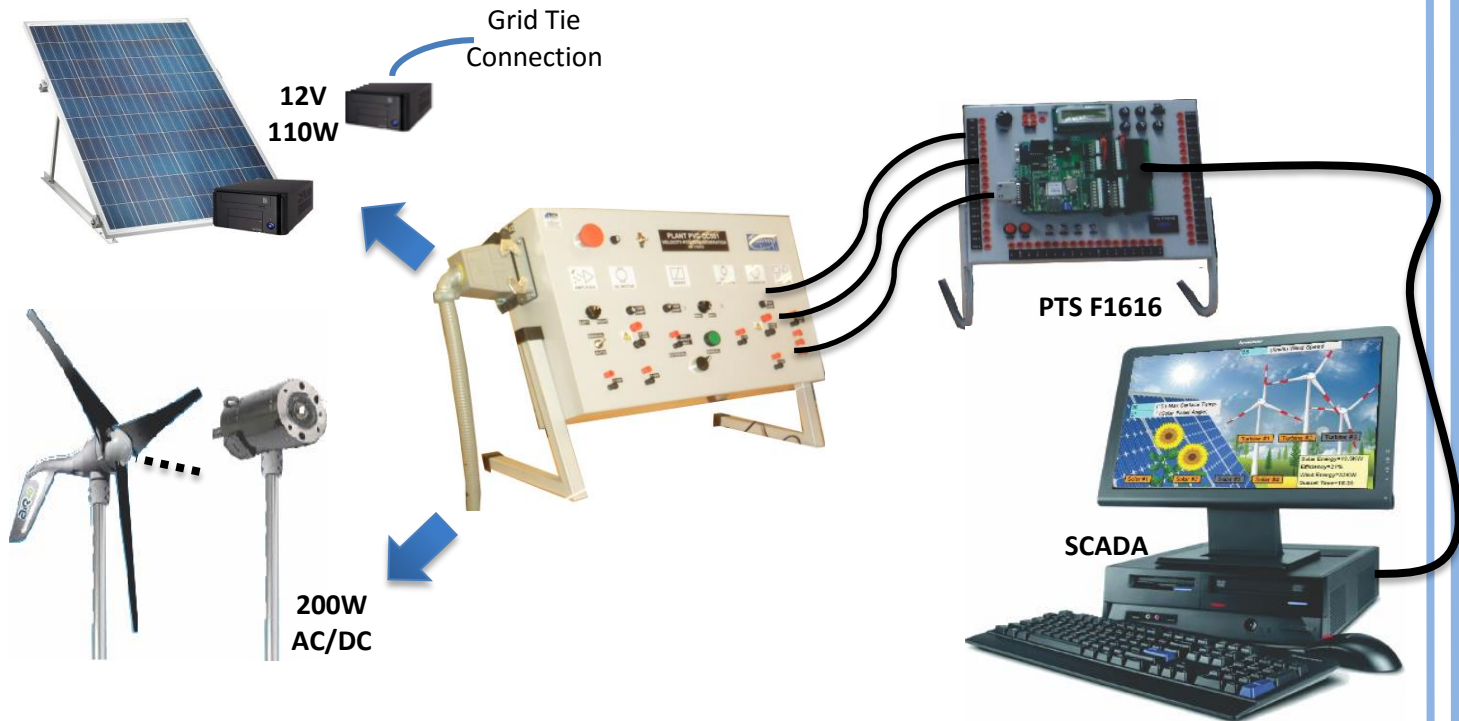
Our Solar and Eolic energy trainer is loaded with several advantages

- *More generation power.*
    1000W in Solar cell.
    200W in Eolic generator and AC/DC voltage.

- *Grid compatible with hybrid technology to grow an alternative energy. Scalable control.*

- *Open a close loop to perform control trough our PLC Trainer F1616 or every external system.*

- *Load band with terminal to make efficiency and regulator test.*

AMBIENTALMENTE RESPONSABLES

Solar and Eolic Energy Trainer

- *DC motor, to simulate wind generator. AC and DC output characterization.*

- *Speed control for DC motor which can be controlled by potentiometer or by a 0-10V remote signal.*

- *Multipurpose trainer PTS F1616 to make simulation and stand-alone control.*

- *PC with open software to control, simulate, graphs and data registration. Excellent tool to develop your applications.*

- *Halogen lamp system to simulate solar rotation on the photovoltaic system.*

- *Measurement of electrical parameters: voltage and current generation. AC/DC.*

Technical Specifications

Power Supply: 110 VAC, 3.5 A.
Dimensions: 190 x 150 x 70 cm Aprox.
Weight: 200 Kg Aprox.

Eolic Turbine
Assembly: Eolic turbine with support.
Turbine: 3 12VAC /12VDC.

Photovoltaic Cell
Voltage: 12 @ 110W.
Type: polycrystalline.
Dimensions: 122,3 x 66,2 x 5 cm.
Weigh: 21,4 lb.

PLC Trainer Station F1616
Data Acquisition

Power Supply:	*24 VDC.*
Inputs:	*12 /Encoder 3.*
Push Bottom:	*2.*
Switches:	*4.*
Outputs:	*12 Relé 7 A.*
PWM Outputs:	*4 (10 A).*
Analog Input:	*8 (0-10 VDC).*
Analog Outputs:	*4 (0-10 VDC).*
Ports:	*RS232x2, RS485x2 y Ethernet.*

Computer
Include control y development software licenses.

Solar and Eolic Energy Trainer

Include:

- *Eolic turbine of 200 W, AC/DC outputs with support and control.*
- *Photovoltaic module110 W 12V.*
- *Hybrid charger with battery 12V / 20A/h.*
- *Anemometer with solar radiation monitoring.*
- *35W and 3W lamp set (Dichroic and LED) with terminals for combination and random load connection.*
- *DC Motor with PWM power drive for wind speed simulation inside the labs.*
- *CC/CA inverter.*
- *Energy single phase transducer.*
- *PTS F1616 trainer for control and interface.*
- *PC with trending software.*
- *4 halogen lamps 150W.*
- *Thermo magnetic switch.*
- *Training and operation of the system.*
- *Operator and training manuals.*
- *Chassis with all the required wiring*
- *Transductores de corriente en AC y DC.*

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Other Products

- *Climate change Phytotron.*
- *Algae Biofuel Pilot Plant.*
- *Bioethanol Plant.*
- *Inverted Pendulum.*
- *Speed, position and generation plant.*
- *PLC trainer (Generic, AB, Siemens, e.t.c.).*
- *Solar heating system.*
- *Hydrogen cell trainer.*
- *Solar and Eolic energy trainer.*
- *Water supply plant.*
- *Motor-generator plant.*
- *Drives.*
- *SCADA.*
- *Other didactic processes (in preparation)*
- *Motor-generator.*
- *Drives.*