

New Energy Lab



Fuel Cell System, Power Electronics, Energy Management

Institute: Public Authority for Applied Education & Training (PAAET)

Website: <http://www.paaet.edu.kw>

Location: Kuwait City, Kuwait

- » A fully integrated autonomous energy system
- » For studying the interrelations of energy management
- » Used as public demonstrator for the increasing awareness for renewable energies

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Wind Turbine



Photovoltaic Installation



Training Center in Kuwait City

System:

- » Solar, wind and fuel cell power combined with modern energy storage technology
- » Central monitoring and control software
- » Online-Visualization of measuring data via a PC

Technical Data

Solar	400 Wp
Wind	400 Wp
Fuel cell	1.2 kW
Hydrogen generator	60 slph
Hydrogen storage	3 x 760 sl
Battery	2 x 55 Ah
Electronic load	1.5 kW
Measurements	45