

## LOCATION

North-East Greece

## PLANT FEATURES

The photovoltaic plant has a peak power of 13.6 MW and is divided into 4 sub-fields, each consisting of a connection cabin to the electricity grid and 2 to 4 inverter cabins.

The inverter cabins communicate with the grid connection cabins through optical fiber, with a ring architecture. There are 4 grid connection cabins and 12 inverter cabins.

## PROJECT DESCRIPTION

Each power connection booth houses an ESOLAR monitoring system, which acquires the production data and status of the configured devices via WEB interface. At predetermined time intervals, ESOLAR transmits all the data acquired and stored, to the SNPDS (Sinapsi Data Service) portal, in order to allow also the consultation in aggregate mode, moreover it allows the data consultation via WEB interface.

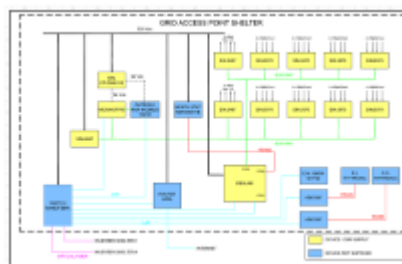
## SINAPSI ROLE

### PV System monitoring

Sinapsi's ESOLAR system was chosen for monitoring performance, production efficiency and remote management and maintenance. In addition to aspects related to production efficiency, the ESOLAR system monitors the environmental parameters, through a weather station, and all auxiliary safety equipment in the plant.

## MONITORING SYSTEM

- Monitoring of all inverters installed in the field
- Real time and daily production data reading
- Monitoring of all meters installed in the field
- String controller monitoring
- Monitoring of temperature and solar radiation sensors
- Monitoring of wind speed and wind direction sensors
- Burglar alarm and fire alarm system monitoring
- Monitoring the status of switchboard switches



## PHOTO GALLERY

Grafici

Economico

Prestazioni

Oggetti KNX

Contatori di Energia

GENERALE

INVERTER

GRUPPI

STRINGHE

PIRANOMETRO

SENSORI

☒ Oggi

☐ Giornaliero

☐ Mensile

Ottobre

2012

☐ Annuale

2012

Seleziona Inverter

Tutti

Grafici

VALORI ISTANTANEI DI OGGI 04/10/2012 ORA ULTIMO CAMPIONE 15:18:06

Nome Inverter	Tensione AC [V]	Corrente AC [A]	Potenza AC [W]	Tensione DC [V]	Corrente DC [A]	Potenza DC [W]	Contatore [kWh]	Stato	C3Q
Inverter 1.1	301.72	63.72	32874.22	553.34	60.46	33454.9	117088.760	OK	100%
Inverter 1.2	302.65	62.34	32364.50	555.34	59.40	32987.2	114653.432	OK	100%
Inverter 1.3	301.48	63.84	33128.00	555.82	60.33	33532.6	117209.144	OK	100%
Inverter 1.4	302.61	60.43	31333.01	559.36	56.54	31626.2	117462.032	OK	100%

Inverter monitoring

Grafici	Economico	Prestazioni	Oggetti KNX	Contatori di Energia	Sezioni Impianto
Seleziona Gruppo KNX ▶	QBT				
Dispositivo del Generatore - Stato					
Dispositivo del Generatore - Scatto relè					
Generale interruttore servizi aux - Stato					
Riarmo protezione interfaccia		ON	OFF		

KNX object monitoring