

**Turnkey realization: "150/20,8 kV primari Substation of San Donaci- San Paolo – Vaccaro (BR) to supply solar energy in National grid" - MT 2007 II**



San Donaci



San Paolo



Vaccaro

GSF Capital, through the company MT 2007-II has realized, in compliance with ENEL unification, 3 new Primary Substation in San Donaci, San Paolo, Vaccaro, in the municipality of Brindisi. GSF has given in charge to SAET the turnkey project of the three primary substations, with civil and electrical works; SAET has interfaced directly with ENEL for the approval of the projects. Usually primary substations are realized for MV distribution, in this case these substations connect solar farm MV lines to the HV grid.

The equipments are HV air insulated and there are: a 150/20,8kV 16MVA transformer in Vaccaro; while a 150/20,8kV 40MVA transformer in San Donaci and in San Paolo each.

The secondary of HV transformer have the predisposition for the neutral connection to ground via Petersen coil.

A special feature of the system is MV panel divided in two levels.

SAET has realized, in compliance with TERNA specification, in-out HV connections to the grid with full strenght draw pylons.

Since June – August 2011 the plants are producing successfully solar energy.



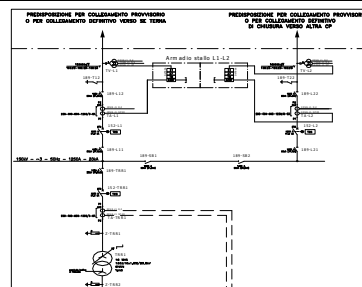
HV equipment assembly



Erection of the pylon (palo gatto)



MV panel divided in two levels



Vaccaro single line diagramm