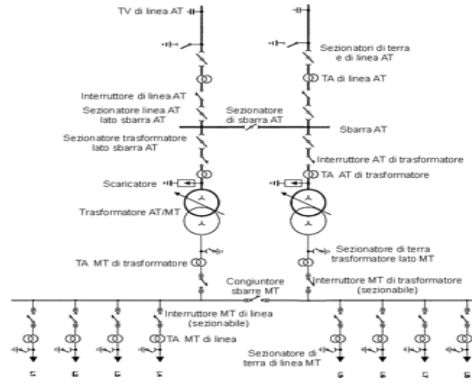


ENERGIA UNO 150/20kV 40 MVA Substation in Casignano (BR) for the 34 MW SOLAR FARM of MESAGNE



Three phases busbar arrangement



Single Line Diagram of 150/20 kV Subst.



HV bay from transformer to OHL

ENERGIA UNO company belongs to DEC SpA (De Gennaro Costruzioni Group) that is active in solar farm and renewables energy. Thanks to the new peculiar rules in Puglia region many single MW solar plants have been developed. ENERGIA UNO has acted as the leader of a Consortium of several single/multiple MW producers interfacing ENEL distribuzione which is connected to the TERNA grid. Therefore in this way ENERGIA UNO became the "owner" of 34MW solar farm in Mesagne (BR) to be connected through a 150/20kV 40MVA Substation (Cabina Primaria Casignano-Brindisi) to the 150kV line San Vito dei Normanni - Brindisi. SAET has been appointed by ENERGIA UNO to build up, on turn key basis, the complete substation together with the HV in-out arrangement. SAET provided the complete plant from the 20kV cables coming from the solar inverters to the HV line (to be cutted with in-out arrangement). The supply is complete with protections, auxiliaries and lighting.



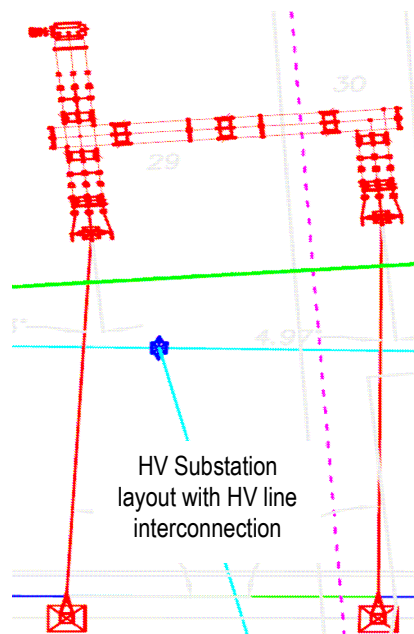
Double Stage Arrangement Panel with 20 kV Distribution



Protection Panel



General view of the Control Room



HV Substation layout with HV line interconnection



S. VITO DEI NORMANNI