



 POLITECNICO DI MILANO



# IEA SHC Task Definition Meeting

Paris, March 22<sup>nd</sup>

*F.Grimaccia, Department of Energy*



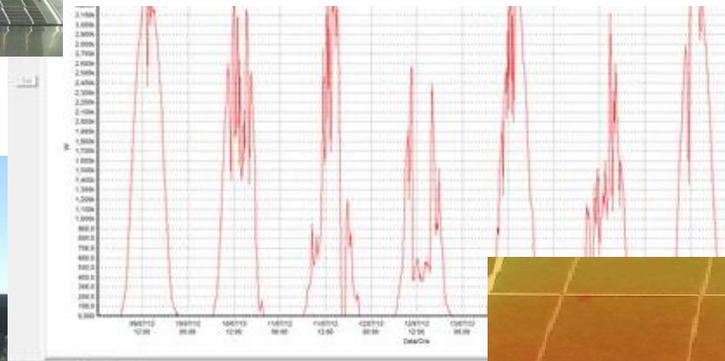
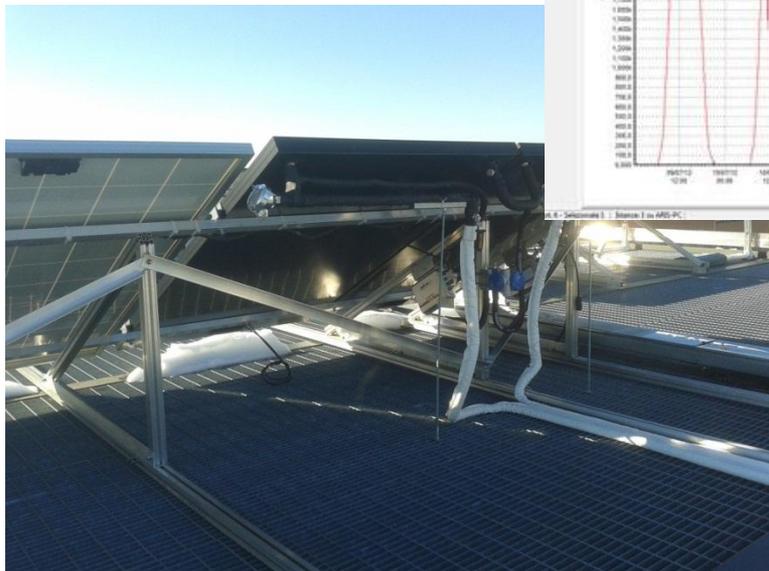


- *PV modules analysis*
- *Energy forecasting tools and algorithms*
- *New PV technologies and Tri-generation*
- *Smart modules, CPV and storage*
- *PV plant performance and monitoring*

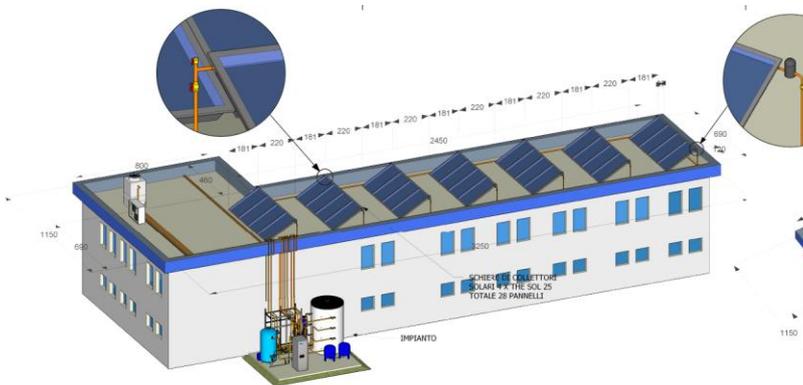




- *Hybrid PV modules*
- *Temperature, flow and pressure control*
- *Thermographic and electrical measures*



- **Simulation, design, commissioning and monitoring of solar thermal cooling plants, (e.g. refrigeration for industrial use,  $< 0\text{ }^{\circ}\text{C}$ );**
- **Training at university and at professional level;**
- **Participation in IEA-SHC former Tasks 25 and 38 and current Task 48 as subtask leader;**
- **Research projects in the FP7 research funding program.**



e.g. Solar conditioning for office building in Italy



**Fresnel solar system for industrial refrigeration**



**Solar conditioning via adsorption chiller in Milan**



**Solar conditioning with high solar fraction and integration with heat pumps in Milan**





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