

InSun is a research project co-funded by the European Commission under the 7th Framework Program.



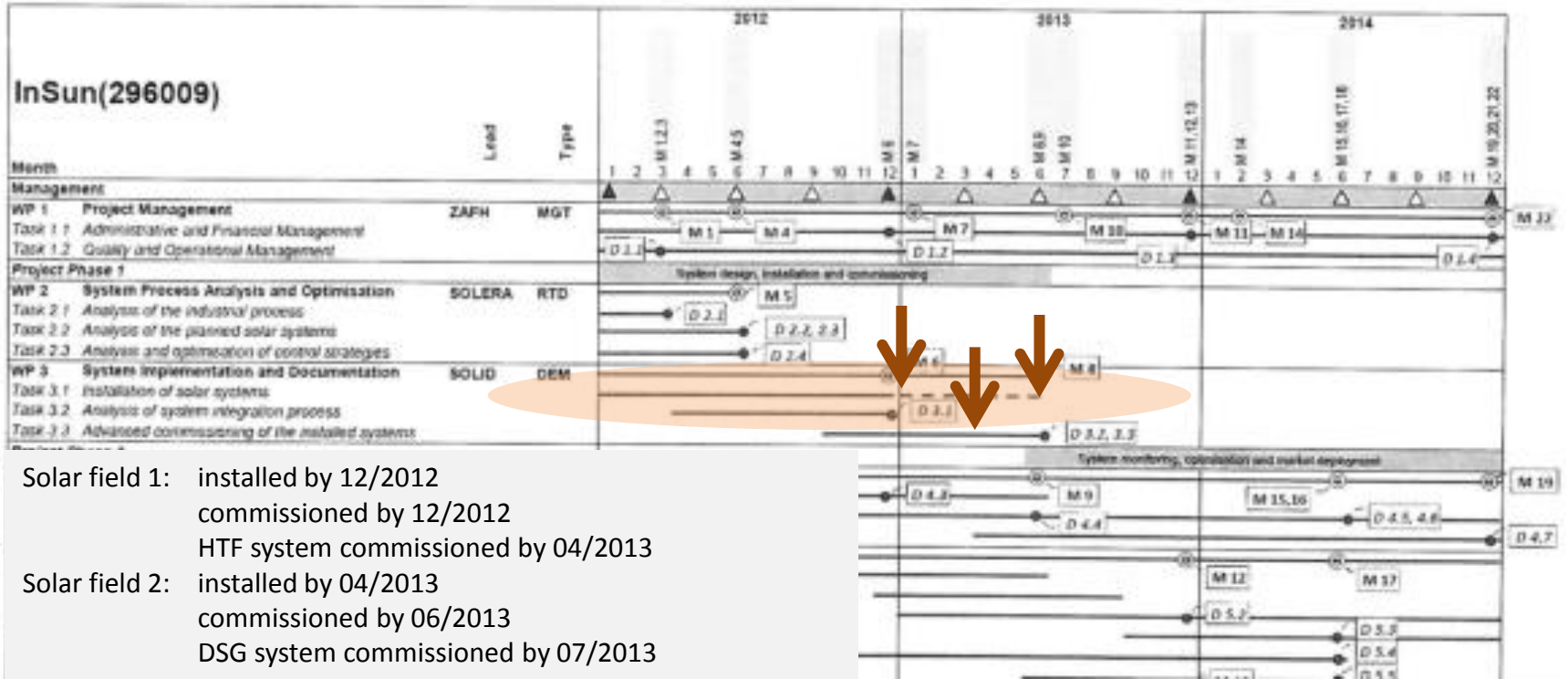
InSun – Solar Process Heat

Laterizi Gambettola srl demo site:

early experiences

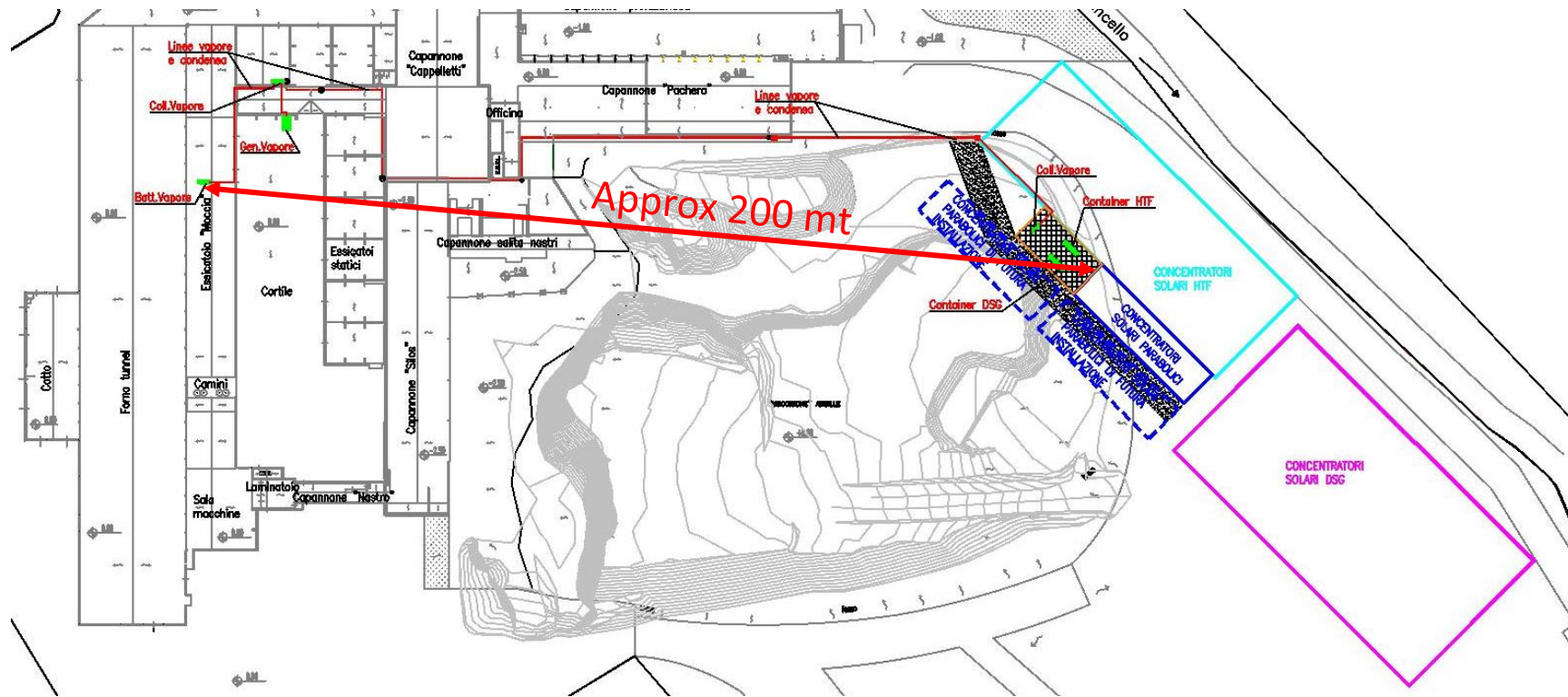
Rapperswil 04/03/2013

Insun gantt for LG demo site



Purely indicative information. Soltigua does not guarantee its accuracy

Site layout



Purely indicative information. Soltigua does not guarantee its accuracy

Main areas of activity

Within the pilot demonstration at Laterizi Gambettola 8 main areas can be identified:

1. HTF solar field
 1. Collector production
 2. Ground preparation
 3. Collector installation
 4. Solar field piping
 5. Solar field commissioning
2. HTF integration equipment
3. Steam distribution system
 1. Piping
 2. Condensate system
 3. Steam commissioning according to PED
4. Steam to air heat exchanger
5. Monitoring and control sensors
 1. Sensors in place
 2. Early control strategies
 3. Refined control strategies
6. DSG solar field
 1. Collector production
 2. Ground preparation
 3. Collector installation
 4. Solar field piping
 5. Solar field commissioning
7. DSG integration package
8. Steam boiler

1.1 Collector production



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1.1 Collector production



1.2 Ground preparation



Purely indicative information. Soltigua does not guarantee its accuracy

1.2 Ground preparation



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1.3 Collector installation



1.3 Collector installation



Purely indicative information. Soltigua does not guarantee its accuracy

2 HTF integration equipment



3.1 Piping



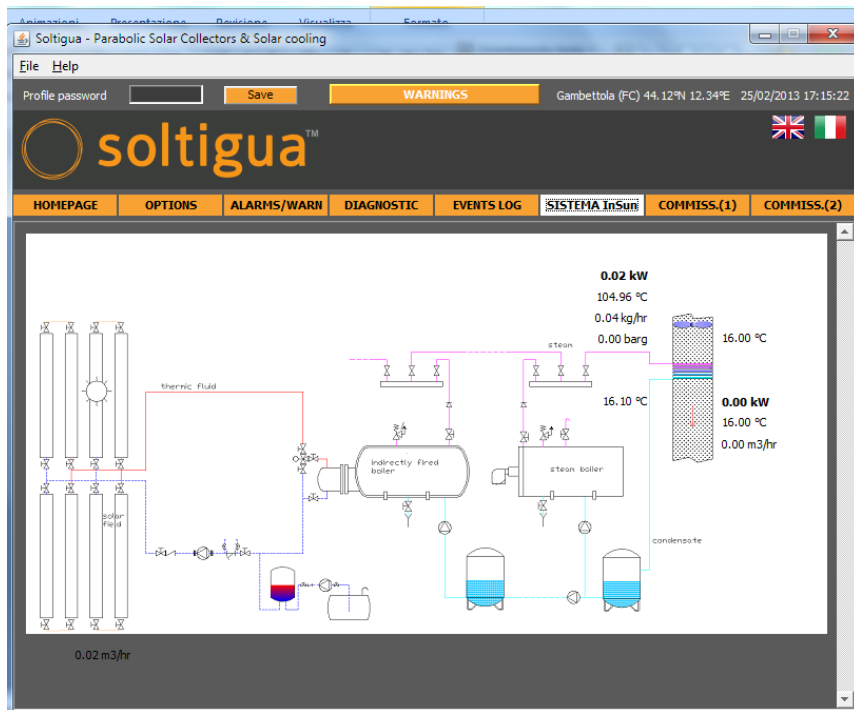
3.1 Piping thermal insulation



3.2 Condensate system & 4. Steam-air HE



5. Monitoring database



Purely indicative information. Soltigua does not guarantee its accuracy

Main areas of activity – next steps

Within the pilot demonstration at Laterizi Gambettola 8 main areas can be identified:

1. HTF solar field
 1. Collector production
 2. Ground preparation
 3. Collector installation
 4. Solar field piping
 5. **Solar field commissioning**
2. HTF integration equipment
3. Steam distribution system
 1. Piping
 2. Condensate system
 3. **Steam commissioning accordign to PED**
4. Steam to air heat exchanger
5. Monitoring and control sensors
 1. Sensors in place
 2. Early control strategies
 3. **Refined control strategies**
6. DSG solar field
 1. Collector **production**
 2. **Ground preparation**
 3. **Collector installation**
 4. **Solar field piping**
 5. **Solar field commissioning**
7. **DSG integration package**
8. **Steam boiler**