

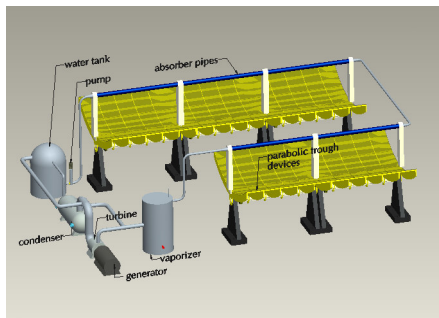
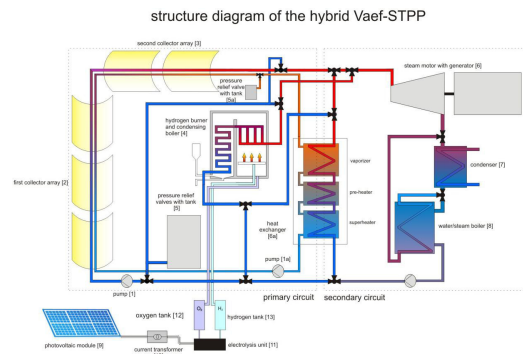


Karlsruhe/Ras Nache, 12th June 2010

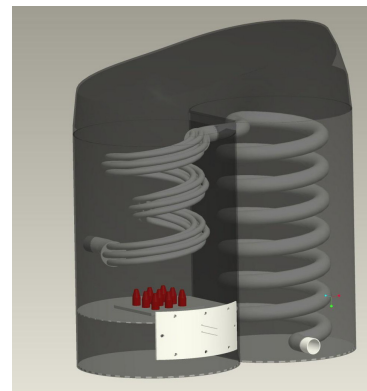
Test stand for a Solarthermal Powerplant (STPP) as a hybrid (one/two-circuit system)



Abb. 1.1-1: Luftbild der solarthermischen Parabolrinnen-Kraftwerke bei Kramer Junction in der Mojave-Wüste in Kalifornien, USA



ProE Model of the Direct Heating Teststand



Heater
(vaporizer) and
Condensing
boiler

In the context of the VaEf/MEAE - TEMO project „Modeling and construction of a two-circuit-STPP“, following work packages will be concerned as a student research project (master thesis or bachelor thesis):

Student research project (Master thesis or bachelor thesis)

Detailed Construction and stress analysis of a Stadtgas-Heater for a Test plant for a Solarthermal Powerplant (STPP)

Based on the previous results of the project following operations have to be done:

1. Learning the programs Pro Engineer 2.0 and Abaqus
2. Refining the existing design of the heater and producing all relevant files for production
3. Defining material
4. Undergoing stress analysis with the finite element (FEM) tool Abaqus

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