Return of experience on transient behavior at the DSG solar thermal Power plant in Kanchanaburi, Thailand

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Data based on SFE 3.0 dataset for a 22-year period (July 1983 – June 2005) from [www.esd.dk](http://www.esd.dk)

Map created and map layout by [DLR](http://www.dlr.de) 2008
1. Motivation
2. Power plant characteristic
3. Classification of the operation days
4. Evaluation
5. Conclusion
Thermoöl Vs Direktverdampfung

Heat transfer fluid (HTF)  Working fluid (WF)  Heat transfer & working fluid (HTWF)

HP  LP  DSG  HP  LP
Thermal oil

- 2 Hydraulic circuits
- $5.67 /kg (bis 9% der gesamtkosten)
- Toxic, inflammable
- Max 400°C
- Proven technology

DSG

- 1 Hydraulic circuits
- 0,0x $ /Liter
- Neutral, non-flammable
- Temperaturen bis 600°C
- High pressure receiver
- control system