

Afrika Woche 2011 Dresden Energie Workshop

Solar Thermal Systems
easy and efficient for industrial
and domestic use

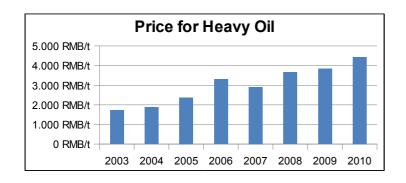
A few Facts

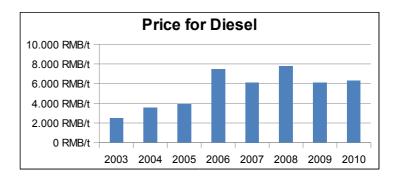


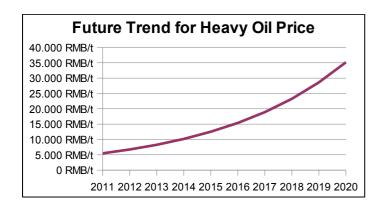
- During this speech, we are using 1,000,000 times more energy on the world, than grew within the same period
- We will run out of fossil fuel
- We were facing an average energy price increase of 15% per year during the last 10 years – energy price more than tripled.

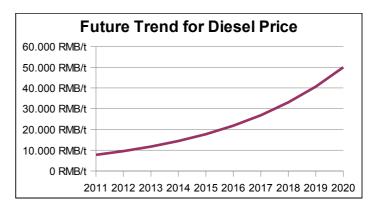
The Global Energy Price







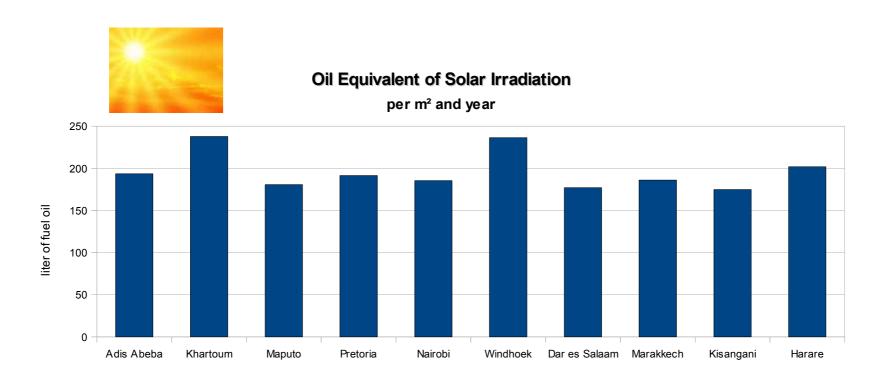




There is only one direction!

The Power of the Sun





More than 50% can be used with solar thermal systems! The solar system does not replace a boiler, but replaces fuel!

The diferent challenges



Industries: increase energy efficiency and replace fossil fuels by renewables to reduce consumption.



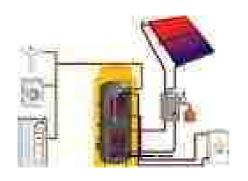
Domestic use: Avoid rising energy demand, by satisfiying new energy needs of people by renewables

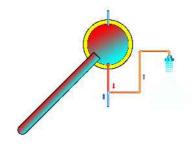


Solutions for domestic use



High – Tech vs. Low - Costs





German Way

Pressurized
2 – Loop
Fresh water technology
High efficient

Chinese Way

Non-Pressurized
Open systems
Highly cost-efficient
Low price

The true way is between the 2 worlds

The Solar Water Heater



The most cost-efficient Solar System for domestic use with potential for local added value.









Attention on:

climate conditions, environmental conditions, qualification of installers, adaption to the market

Reality in Industries



- More than 30 year old boilers
- Heavy oil boilers and thermal oil units
- Steam based systems
- None or bad insulation of piping
- Burning of wood in areas with serious destruction of forrests
- No Control, no monitoring

No one cares about energy – seems still too cheap!

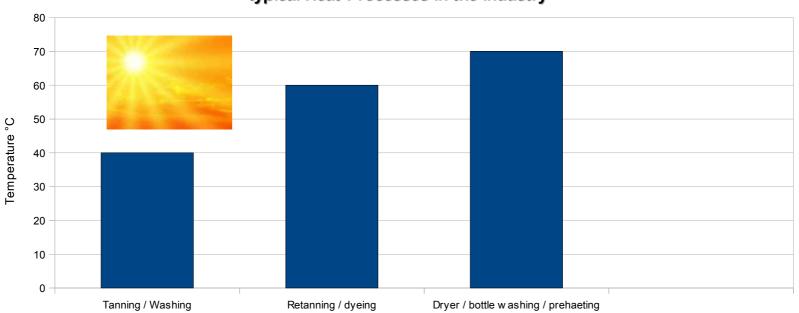




Heat in the Industry



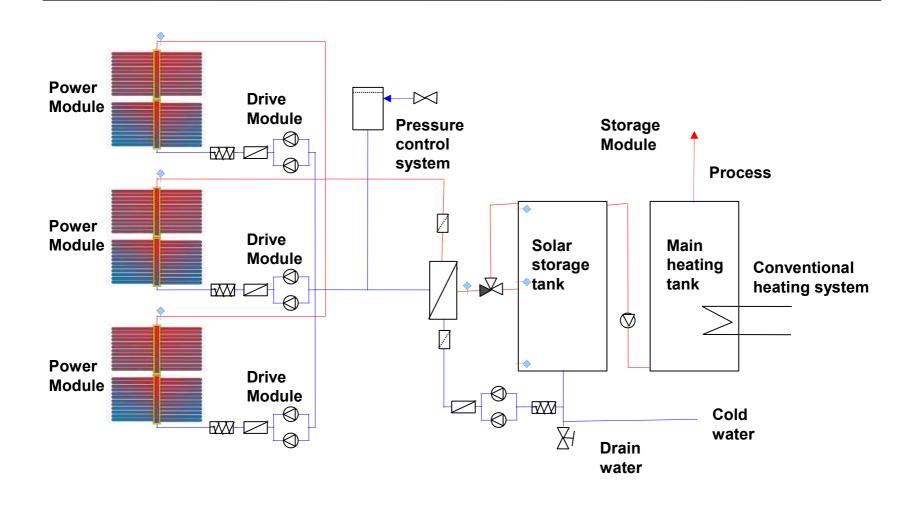




perfect for solar

Solar for Tanning and Dyeing





Industrial Solar Systems



Saigon Tan Tec



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Thank you for your attention!