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Storing the sun in molten salts – The concept of concentrating solar power plants coupled with thermal energy storage

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Ort:

Raum D 145
(Gebäudeteil D, Parkplatz P3)
Stegerwaldstraße 39
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Uhrzeit:

17.00 Uhr c. t.

Solar thermal energy storage (TES) as complementary technology in concentrating solar power (CSP) systems has been one of the most rapidly growing energy sectors in the last decade. The value added by thermal energy storage is undoubtedly high owing to the variety of storage media which offer a wide operation range. Storage systems based on molten nitrate salts set the benchmark in solar tower technologies and parabolic trough systems. The nitrate salts used are mainly based on the so called Solar Salt mixture: a 60-40 wt% mixture of NaNO_3 and KNO_3 , respectively.

The presented work will give a techno-economic overview with somewhat deeper insight into state-of-the-art R&D topics such as thermal stability issues, corrosion phenomena and next-generation storage materials.

Einladender: Prof. Dr. Ulrich Kynast

