Thermal Storage Based Generation

ENMILLER ENERG **Brenmiller Energy**





How Does it work? Industrial process Steam Electricity High temp. storage Up to 500c Steam for Electricity BRENMILLER ENERGY Hot water Heat Cold water

BRENMILLER ENERGY



BRENMILLER ENERGY

Utilizing Brenmiller Heat Storage For District Heating





Utilizing Brenmiller Heat Storage For Industrial Power to Heat



Daily Electricity Tariffs - Germany

Import Balance Oconventional > 100 MW OLoad Outraday Continuous Average Price (right axis) OIntraday Continuous Low Price (right axis) OIntraday Continuous High Price (right axis) Wind Solar 80.00 200.00 70.00 175.00 60.00 150.00 50.00 125.00 40.00 100.00 Price (M) 30.00 (Euro/MWh) 75.00 20.00 50.00 10.00 25.00 0.00 0.00 -10.00 -25.00 -20.00 01.11. 01:00 -50.00 01.12.00:00 04.11.14:53 06.11.22:26 09.11.06:00 11.11.13:33 13.11.21:06 16.11.04:40 18.11. 12:13 20.11. 19:46 23.11.03:20 25.11. 10:53 27.11. 18:26 Date Datasource: 50 Hertz, Amprion, Tennet, TransnetBW, EEX, EPEX

Last update: 02 Dec 2017 00:14

*Reference: Fraunhofer ISE, Germany tariffs in November 2017



Heat generating prices - Comparison (€c/Kwh)



*Eurostat, European Commission, Bo Shen

Assumptions:

* Storing during low cost electricity prices

* 8 hours of charging/discharging per day

 * 2.5 MWth supply per hour at 90°C



Thank You!

