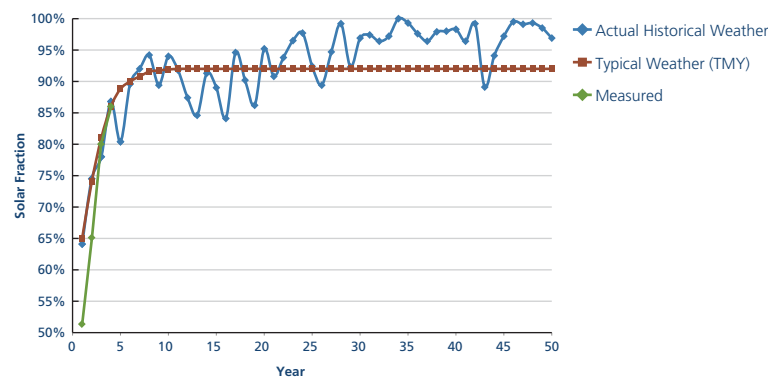


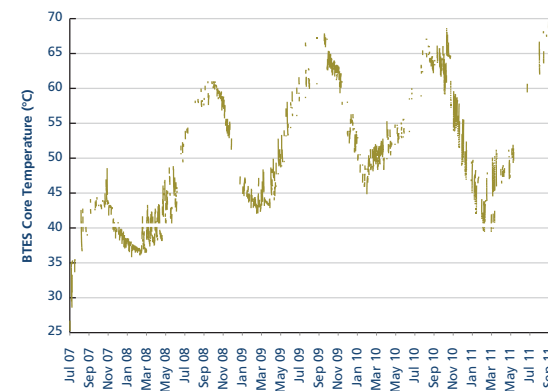


# Performance of The Solar Seasonal Storage Heating System

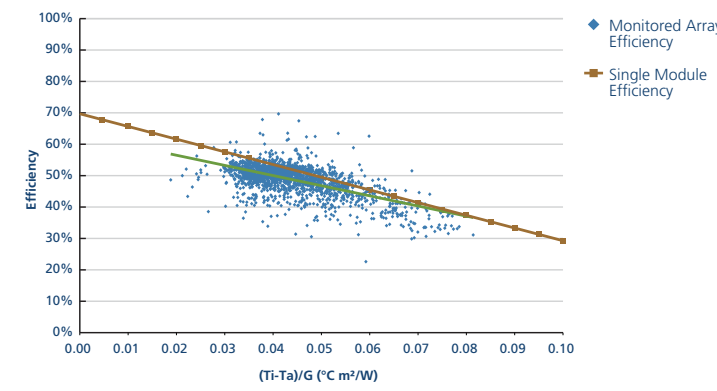
Performance – Simulated & Measured



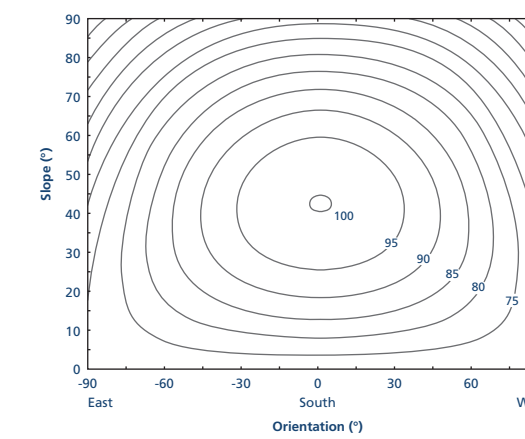
BTES Core Temperature



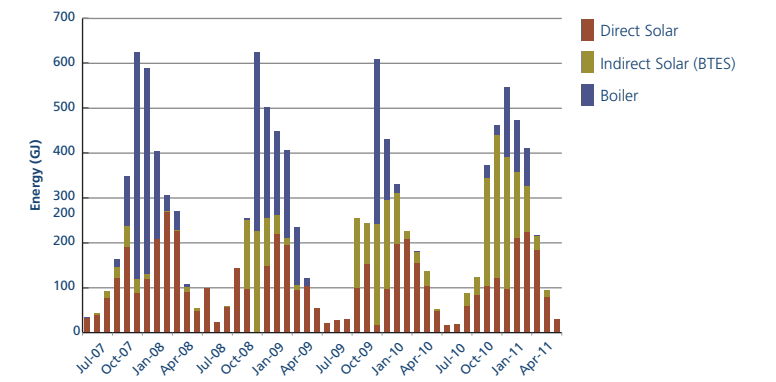
Collector Efficiency



Impact of Collector Orientation on Annual Collected Energy (Percent of Maximum)



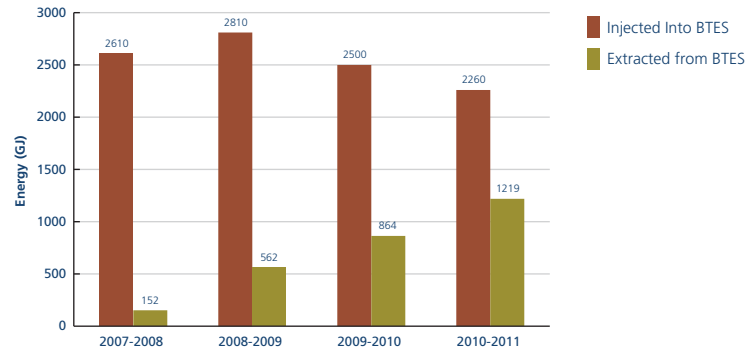
Energy Supplied to District Loop



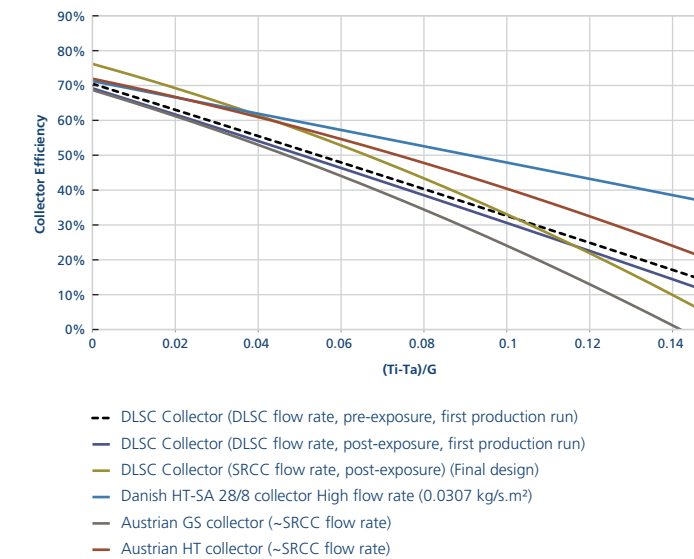
Performance – Simulated & Measured

Year of Operation	1	2	3	4	5	
Collector Efficiency	Simulated	0.32	0.28	0.26	0.25	0.25
	Measured	0.34	0.33	0.34	0.33	
BTES Efficiency	Simulated	0.09	0.23	0.35	0.40	0.41
	Measured	0.06	0.20	0.35	0.54	
Energy to Load (GJ)	Simulated	2530	2530	2530	2530	2530
	Measured	3040	2960	2550	2860	
Solar Fraction	Simulated	0.66	0.76	0.85	0.88	0.89
	Measured	0.55	0.60	0.80	0.86	

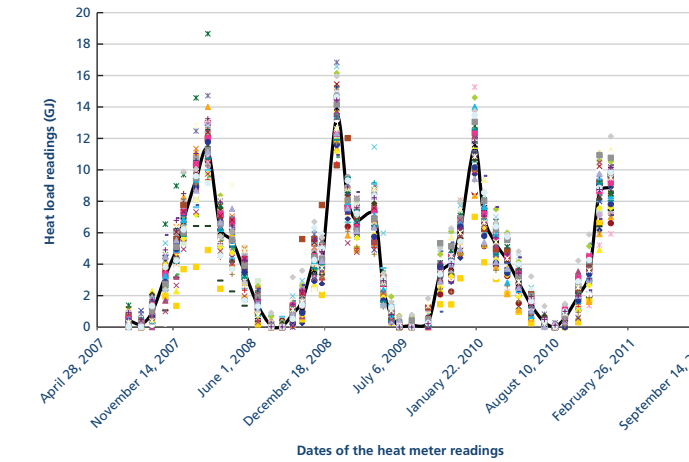
BTES Performance



Collector Efficiency Comparison



Monthly House Energy Consumption



District Loop Temperatures 2010-2011

