

# **Case study of Memsys plant for shale gas wastewater treatment in US**

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# Deep well injection site

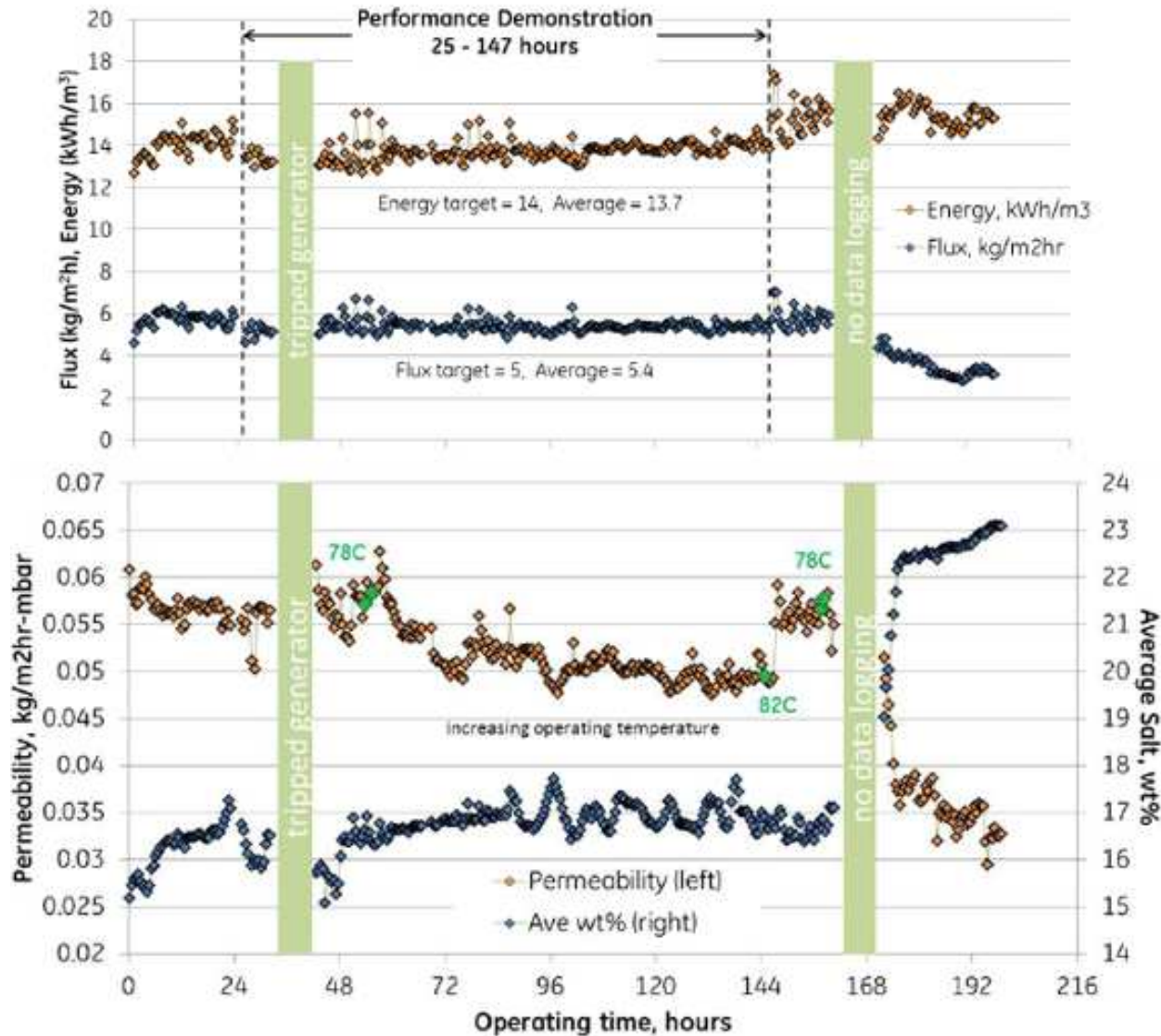


# Performance targets



Criteria @ 17% avg TDS	Commercial	High TDS (24 wt%)
	Targets (Actual results)	Targets
Flux (LMH)	>5 (>5.5)	-
Distillate Quality (ppm)	<300 (<200)	<300 (<250)
Isentropic Energy (kwh/m3)	<14 (<14)	-
Flux Recovery (%)	90% (No decline detected)	-
Uptime (%)	90% (100% no outage due to MD)	90% (100%)

# Performance Data



**30 to 40% less energy consumptions than traditional evaporators**

**High TDS**  
**Average feed in: 190,000mg/l**  
**Maximum brine out: 290,000mg/l**

# High recovery rates up to the limit

