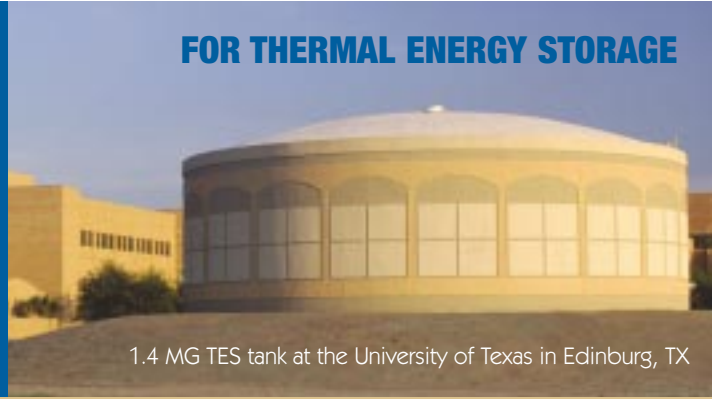


NATGUN

PRESTRESSED CONCRETE TANKS

FOR THERMAL ENERGY STORAGE

Natgun concrete TES tanks can be constructed above ground, partially buried, or fully buried. A typical tank includes inlet and outlet diffusers within the tank, exterior wall insulation, a roof hatch, interior and exterior ladders and a sensor switch. Costs vary based on location, labor rates and site preparation requirements. TES tanks can be built in any size from 100,000 gallons and up. The larger the tank, the smaller the cost per gallon.



1.4 MG TES tank at the University of Texas in Edinburg, TX

PEAK COOLING (TONS)	COOLING LOAD SHIFT CAPACITY (TON HOURS)	APPROXIMATE TANK VOLUME (GALS)	EXAMPLE TANK SIZE DIMENSIONS
250	2,000	266,000	20' SWD x 47.6' ID
500	4,000	531,000	30' SWD x 54.9' ID
750	6,000	796,000	30' SWD x 67.2' ID
1,000	8,000	1,061,000	30' SWD x 77.6" ID
1,250	10,000	1,327,000	40' SWD x 75.1' ID
1,500	12,000	1,592,000	40' SWD x 82.3' ID
1,750	14,000	1,857,000	40' SWD x 88.9' ID
2,000	16,000	2,122,000	40' SWD x 95.0' ID
2,500	20,000	2,653,000	40' SWD x 106.2' ID
3,000	24,000	3,183,000	45' SWD x 109.8' ID
3,500	28,000	3,714,000	45' SWD x 118.5' ID
4,000	32,000	4,244,000	45' SWD x 126.7' ID
4,500	36,000	4,775,000	50' SWD x 127.5' ID
5,000	40,000	5,305,000	50' SWD x 134.4' ID
6,000	48,000	6,366,000	50' SWD x 147.2' ID
7,000	56,000	7,427,000	55' SWD x 151.6' ID
8,000	64,000	8,488,000	55' SWD x 162.1' ID
9,000	72,000	9,549,000	60' SWD x 164.6' ID
10,000	80,000	10,610,000	60' SWD x 173.5' ID
12,000	96,000	12,732,000	60' SWD x 190.1' ID

8 HOURS OF COOLING
WATER UTILIZATION

SYSTEM $\Delta T = 12^\circ$

DIMENSIONS WILL VARY TO
MATCH SITE REQUIREMENTS