

The logo features the Chinese characters '爱能森' (Ài Néng Sēn) in a stylized, bold font. A small red maple leaf is positioned above the character '能'. Below the Chinese characters, the word 'ENESOOON' is written in a large, bold, white, sans-serif font. The background is a dark teal color with a diagonal split, and the corners are decorated with a pattern of green squares in various shades, creating a checkered effect.

爱能森 ENESOOON

Technology Overview & Sample Project

The background of the slide features a photograph of industrial machinery, including pipes, valves, and tanks, overlaid with several large, overlapping green geometric shapes. A large dark green diamond shape is on the left, a medium green diamond is on the right, and a light green diamond pattern is in the bottom right corner. The text is positioned within the dark green diamond.

Heat

is a **valuable** and **manipulable**
resource with massively untapped
economic potential

Core Technologies

▶ Heat Transferring Equipment

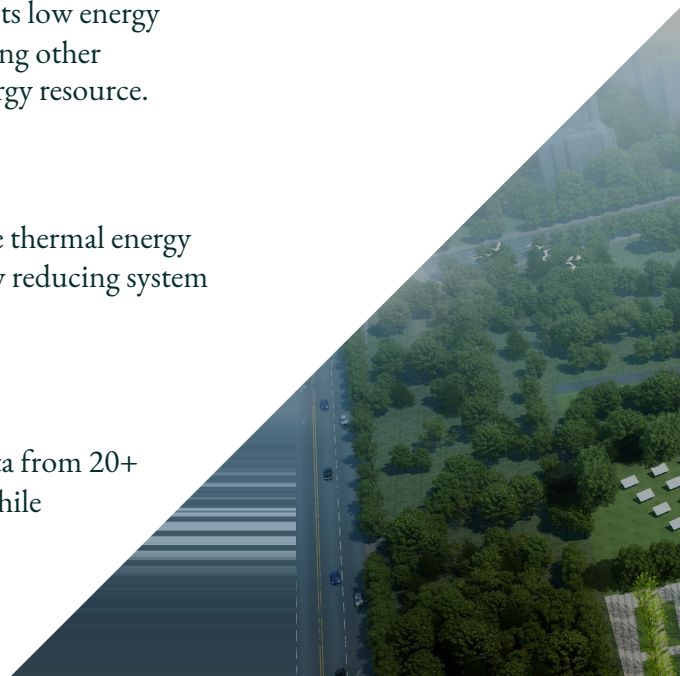
High efficiency heat pumps and proprietary transfer medium boasts low energy loss, long lifespan, modularity, scalability, remote operability, among other characteristics that enable system to harvest heat like any other energy resource.

▶ Thermal Energy Storage

Patented low-melting, low-corrosion, and low-cost nano salts store thermal energy when it is plentiful and release when electricity demands rise, vastly reducing system costs, wear & tear, and physical & environmental footprint.

▶ Multi-Energy Management System

Hybrid Smart Energy System ("HSES"), trained on 9+ years of data from 20+ national & provincial projects, manages multiple energy sources while optimizing for efficiency, energy cost, and reliability.





500 million m²

of contracted service area

700+ patents

spanning three continents

706 counties

coverage throughout China



▼
10MWe

CSP generating 50 TWh/yr



\$40mm Net Capital Cost

IRR: 13% & NPV:\$10.1mm



Real \$0.065/KWh LCOE

remain NPV positive @ \$.08/kWh PPA



20,000+ Tons of CO₂ Avoided

annually compared to oil/gas plants

Sample Project Proposal

CSP @ University of Ghana Medical Center



6+ Years of Operation

Validating technology



First Urban <> CSP

Concepts validated by Stanford



1.03 MW Cooling Capacity

At reduced cost & high availability



18 Month Completion

With Enesoon's tech & turnkey solution

Based on Operating Project

Suqian CSP Research Center

Systems Comparison

	<i>Hses</i>	Solar PV	Oil/Gas
Cost	\$0.065/KWh	\$0.06/KWh	\$0.08/KWh
Availability	Constant	Intermittent	Constant
CO₂, NO_x + Emissions	Low	Low	High
Ground Temperature	Decrease	Increase	Unchanged
Water Intensity	Moderate	Moderate	Varies

Versatility

Off-Site

Scale

Reach economy of scale with high capacity off-site CSP project integrated with PV & other energy sources to reach the lowest energy cost and highest IRR

CSP+NGCC

Efficiency

CSP increased Natural Gas Combined Cycle efficiency up to 65%, complementing existing infrastructure and reducing the cost of transition

Industrial

Costs

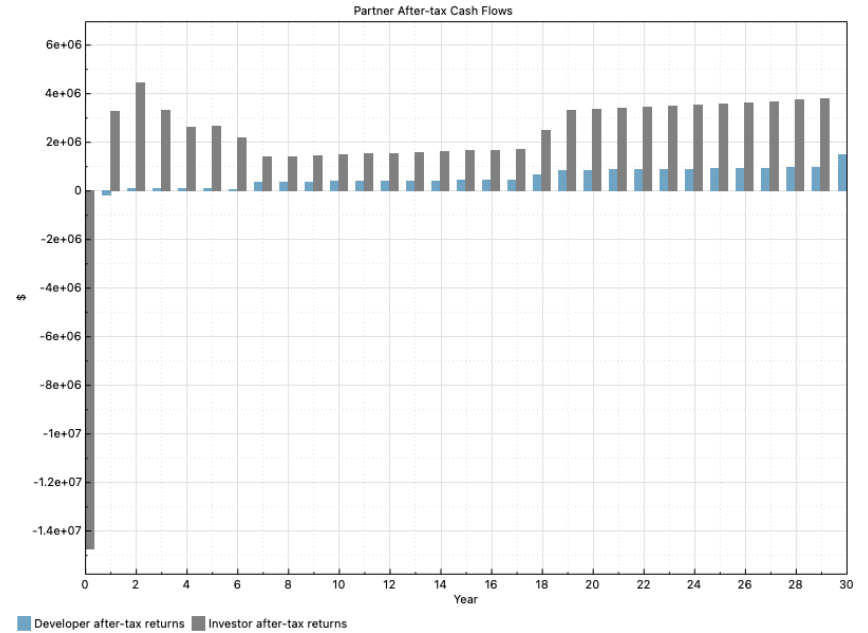
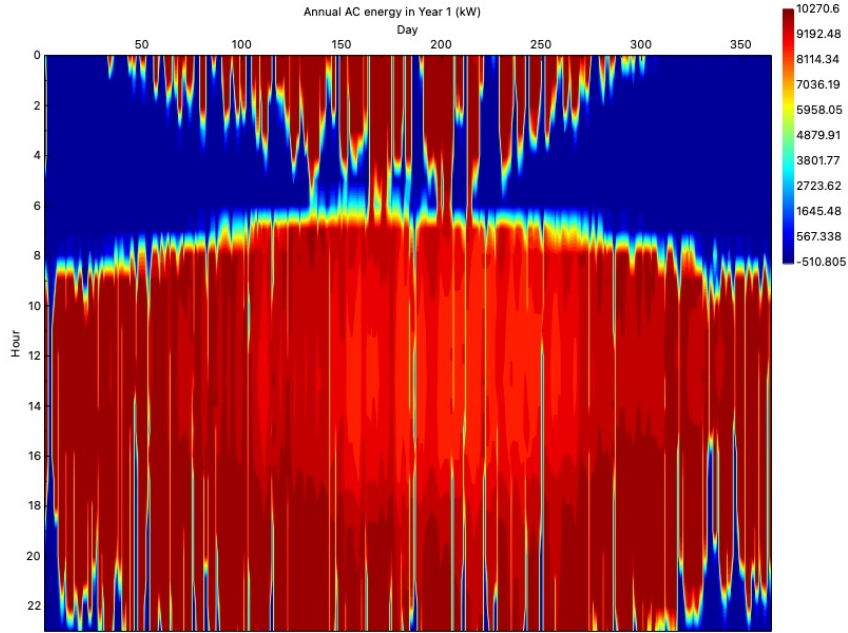
Application of industrial heat pumps vastly reduce costs in manufacturing activities ranging from petrochemical distillation to pharmaceutical manufacturing



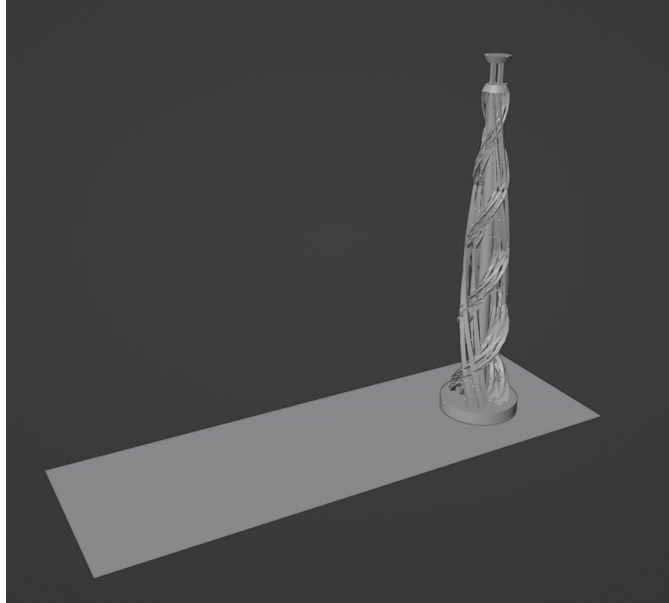
Thank you

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Appendices



Appendices



Metric	Value
Annual AC energy (year 1)	51,613,200 kWh
Capacity factor (year 1)	65.50%
Annual Water Usage	7,581 m ³
PPA price in Year 1	9.00 ¢/kWh
PPA price escalation	2.30 %/year
LPPA Levelized PPA price nominal	11.79 ¢/kWh
LPPA Levelized PPA price real	8.03 ¢/kWh
LCOE Levelized cost of energy nominal	9.52 ¢/kWh
LCOE Levelized cost of energy real	6.48 ¢/kWh
Investor IRR at end of project	19.56%
Investor NPV over project life	\$10,692,723
Net capital cost	\$39,577,376
Equity	\$15,032,905
Debt	\$24,544,470
Minimum DSCR	2.17



Appendices

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
ENERGY																																
Electricity to grid (kWh)	0	52,229,480	52,109,352	51,989,500	51,869,924	51,750,624	51,631,596	51,512,844	51,394,364	51,276,156	51,158,220	51,040,556	50,923,164	50,806,040	50,689,188	50,572,604	50,456,284	50,340,236	50,224,452	50,108,936	49,993,688	49,878,700	49,763,980	49,649,524	49,535,328	49,421,396	49,307,728	49,194,320	49,081,172	48,968,288	48,855,660	
Electricity from grid (kWh)	0	-616,277	-614,860	-613,446	-612,035	-610,627	-609,222	-607,821	-606,423	-605,029	-603,637	-602,249	-600,863	-599,481	-598,103	-596,727	-595,354	-593,985	-592,619	-591,256	-589,896	-588,539	-587,186	-585,835	-584,488	-583,143	-581,802	-580,464	-579,129	-577,797	-576,468	
Electricity to grid net (kWh)	0	51,613,200	51,494,492	51,376,052	51,257,888	51,139,996	51,022,372	50,905,024	50,787,940	50,671,128	50,554,584	50,438,308	50,322,300	50,206,560	50,091,084	49,975,876	49,860,932	49,746,252	49,631,836	49,517,680	49,403,792	49,290,160	49,176,796	49,063,688	48,950,840	48,838,256	48,725,928	48,613,856	48,502,044	48,390,492	48,279,192	
REVENUE																																
PPA price (cents/kWh)	0	9	9.207	9.41876	9.63539	9.85701	10.0837	10.3156	10.5529	10.7956	11.0439	11.2979	11.5578	11.8236	12.0956	12.3738	12.6583	12.9495	13.2473	13.552	13.8637	14.1826	14.5088	14.8425	15.1839	15.5331	15.8903	16.2558	16.6297	17.0122	17.4035	
PPA revenue to project (\$)	0	5,094,142	5,199,322	5,306,672	5,416,240	5,528,070	5,642,208	5,758,703	5,877,604	5,998,959	6,122,820	6,249,238	6,378,268	6,509,960	6,644,372	6,781,559	6,921,578	7,064,489	7,210,350	7,359,223	7,511,170	7,666,254	7,824,540	7,986,094	8,150,983	8,319,277	8,491,046	8,666,362	8,845,297	9,027,927	9,214,327	
Salvage value (\$)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,713,841
Total revenue to project (\$)	0	5,094,142	5,199,322	5,306,672	5,416,240	5,528,070	5,642,208	5,758,703	5,877,604	5,998,959	6,122,820	6,249,238	6,378,268	6,509,960	6,644,372	6,781,559	6,921,578	7,064,489	7,210,350	7,359,223	7,511,170	7,666,254	7,824,540	7,986,094	8,150,983	8,319,277	8,491,046	8,666,362	8,845,297	9,027,927	10,928,168	
Property tax net assessed value (\$)	0	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820	34,276,820
OPERATING EXPENSES																																
O&M fixed expense (\$)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O&M production-based expense (\$)	0	182,803	189,678	196,811	204,213	211,893	219,862	228,131	236,710	245,612	254,849	264,434	274,379	284,697	295,404	306,514	318,041	330,002	342,413	355,290	368,652	382,516	396,902	411,829	427,317	443,387	460,062	477,364	495,317	513,945	533,273	
O&M capacity-based expense (\$)	0	594,000	617,760	642,470	668,169	694,896	722,692	751,600	781,664	812,930	845,447	879,265	914,436	951,013	989,054	1,028,616	1,069,760	1,112,551	1,157,053	1,203,335	1,251,468	1,301,527	1,353,588	1,407,732	1,464,041	1,522,603	1,583,507	1,646,847	1,712,721	1,781,230	1,852,479	
Electricity purchase (\$)	0	48,159	49,153	50,168	51,204	52,261	53,340	54,441	55,565	56,712	57,883	59,079	60,298	61,543	62,814	64,111	65,435	66,786	68,165	69,572	71,008	72,475	73,971	75,498	77,057	78,648	80,272	81,929	83,621	85,347	87,110	
Property tax expense (\$)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Insurance expense (\$)	0	68,554	71,296	74,148	77,114	80,198	83,406	86,742	90,212	93,820	97,573	101,476	105,535	109,757	114,147	118,713	123,461	128,400	133,536	138,877	144,432	150,209	156,218	162,467	168,965	175,724	182,753	190,063	197,665	205,572	213,795	
Land lease expense (\$)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total operating expenses (\$)	0	893,515	927,887	963,597	1,000,700	1,039,248	1,079,300	1,120,914	1,164,151	1,209,075	1,255,753	1,304,254	1,354,648	1,407,010	1,461,419	1,517,953	1,576,698	1,637,738	1,701,166	1,767,074	1,835,561	1,906,728	1,980,679	2,057,525	2,137,380	2,220,362	2,306,594	2,396,204	2,489,324	2,586,094	2,686,657	
EBITDA (\$)	0	4,200,626	4,271,434	4,343,075	4,415,540	4,488,821	4,562,908	4,637,790	4,713,453	4,789,884	4,867,067	4,944,985	5,023,620	5,102,950	5,182,953	5,263,606	5,344,881	5,426,750	5,509,184	5,592,148	5,675,608	5,759,526	5,843,860	5,928,568	6,013,603	6,098,916	6,184,452	6,270,158	6,355,972	6,441,832	6,527,812	

