

# SunCatch Ltd

## UNLIMITED SOLAR THERMAL ENERGY

SUSTAINABLE, PROFITABLE, ENERGY-EFFICIENT FARM OPERATION?

Reduce your operational expenses and reliance on fossil fuels and the grid where costs have increased consistently over the last decade!



By adopting our solar thermal system with Thermal Energy Storage **YOU CAN:**

Increase energy efficiency

Increase sustainability

Increase independence

Reduce operational expenses

Reduce CO2

Decrease the number of chemicals used for cleaning and sanitization

Reduce reliance on fossil fuels and grid

### Description

Unlike some other solar technologies, our system provides direct-from-solar thermal energy without conversion and can supply up to 100% of your heat and hot water needs. Completed with Thermal Energy Storage, it secures **WEATHER INDEPENDENCE** and supports **24/7 OPERATION**.

It is a freestanding system that does not add extra load to the existing structures. Self-sustaining control components allow the system to operate autonomously and off-grid. Automated control module monitors

for safe system operating conditions. Scalability and modular design allow for easy customization to better suit your needs. If desired, this solar thermal system can be made mobile. Our technology is considered a stand-alone solution but can be easily integrated into any current air or hot water heating system as a primary source of thermal energy or a backup. Free, unlimited, and clean thermal energy with just 2.5-5 years of payback period.

### Applications

#### Space Heating

- Barns
- Greenhouses
- Vertical Farms
- Incubators
- Warehouses
- Farm shops
- Dwellings

#### Water Heating

- Cleaning
- Sanitizing
- Pasteurizing
- Freeze prevention
- Deicing roads
- Thawing
- Warming up

#### Air Heating

- Drying
- Dehydration
- Heating
- Ventilation
- Integrating into existing air heating system

## COMPETITION-COMPARISON TABLE

	INDIRECT			DIRECT			
	SunCatch	PV (Photo-Voltaic)	CSP (Concentrated Solar Power)	Ground Source Heating Pump	Natural Gas	Propane	Electric heaters
Payback Period	2.5-5 yr.	5-10 yr.	15+ yr.	5-10 yr.	20-27yr.	20-27 yr.	12-20 yr.
Cost per kWh	\$ 0.016	\$ 0.06	\$ 0.083	\$ 0.035	\$ 0.072	\$ 0.044	\$ 0.12
Cost of source	FREE	FREE	FREE	LOW ↑	LOW ↑	MED. ↑	HIGH ↑
Off-grid	✓	✓	✓	✗	✗	✗	✗
ZERO-emission	✓	✓	✓	✓	✗	✗	✗
Ease of use	✓	✗	✗	✓	✗	✗	✓

\* assuming CSP, PV, and SunCatch technologies are all equipped with energy storage.

## TESTING-MODEL PERFORMANCE under ideal conditions

	kWh	BTU/hour
1 sq. ft / mirror surface/	0.112	382
One 16' module (128 sq. ft)	14	48,916
CST system /ten 16'modules (1280 sq. ft)	143	489,165

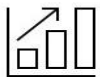
## We are different from PV and other solar tech!



Payback period 2.5 – 5 years



Weather independent



Efficiency up to 92%



Off-grid



Scalable



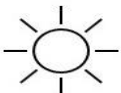
100% renewable



Zero emission



Low-maintenance



Direct-from-solar thermal energy without conversion

**CONTACT US TO RECEIVE FREE INITIAL ESTIMATE:**