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# **SOLAR THERMAL ENERGY WITH THERMAL STORAGE**

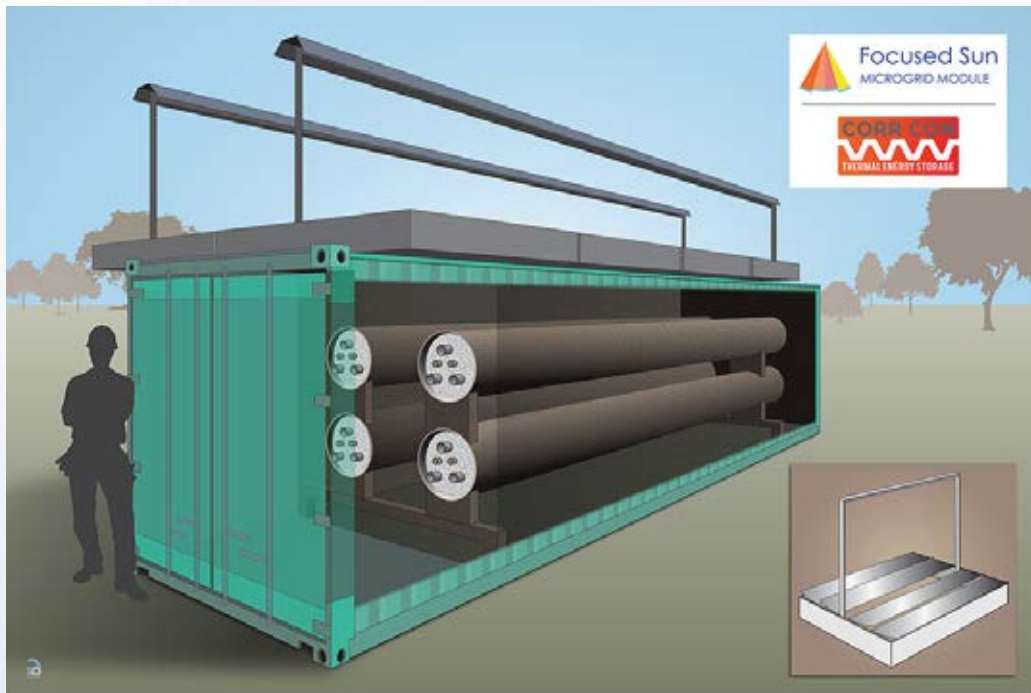
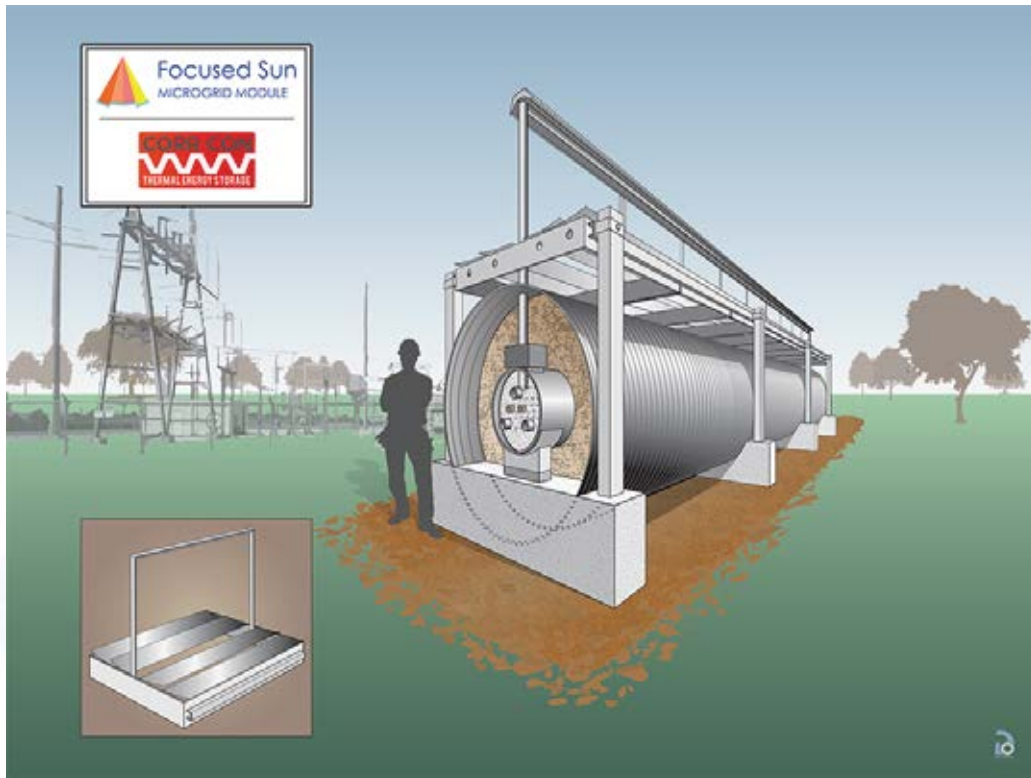
**DURABLE, RELIABLE, EFFICIENT**

**COMPETITIVE LCOE**

**LEVELIZED COST OF ELECTRICITY**

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# GREEN ENERGY IS THE NEW GOLD AND FOCUSED SUN/CORRCON CAN HELP SHARE IT AROUND THE WORLD

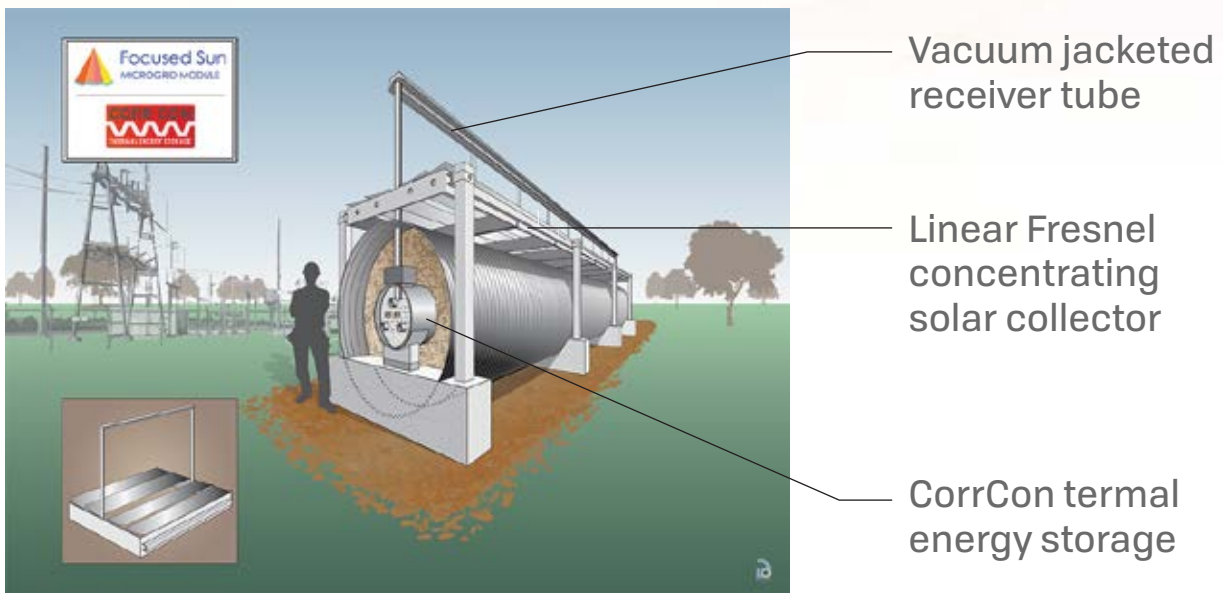


**EFFICIENT, DURABLE, EASILY AVAILABLE TECHNOLOGY  
FOR PRODUCING "GREEN GOLD" WITH NO POLLUTION**

# CONCENTRATED SOLAR THERMAL WITH THERMAL STORAGE

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Focused Sun with their concentrated solar thermal collection technology has partnered with Green Energy Resources and Services and their proprietary CorrCon thermal energy storage to introduce a simple, inexpensive, reliable power solution.



## HOW IT WORKS

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Focused Sun's efficient linear Fresnel solar collectors focus heat on an overhead vacuum jacketed metal tube filled with mineral oil;

The oil circulates through a 2 foot diameter concrete cylinder raising its internal temperature to 600 degrees Fahrenheit (300C);

Other mineral filled pipes embedded in the cylinder move the heat to a Sterling Engine or an Organic Rankine Cycle (ORC) turbo generator, which converts it to electricity.

The generator produces electricity and low grade heat (below boiling) which is valuable for many requirements, such as space heating, process heat and desalination;

The heated concrete can provide electricity generation when solar collection is not available. The area required for a 100 kiloWatt installation is about a half acre.



Focused  
Sun



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**SOLAR THERMAL ENERGY COLLECTION,  
STORAGE AND GENERATION**

**PERMANENT OR PORTABLE INSTALLATIONS**

**DURABLE, RELIABLE BASE LOAD ENERGY  
THAT RESPONDS TO LOAD VARIATIONS**

**MIXES WITH OTHER RENEWABLE  
TECHNOLOGIES TO INCREASE PRODUCTION  
AND VALUE**

**OPERATES WITH ANY THERMAL**

## **USES**

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**ENERGY AT THE POINT OF LOAD**

**WATER TREATMENT**

(DOMESTIC, OILFIELD, AGRICULTURE, DESALINATION)

**FOOD PRODUCTION**

(AQUAPONICS, GREENHOUSES, DEHYDRATION)

**HYDROGEN PRODUCTION**

(ELECTROLYSIS)

**ANY PROCESSING TECHNOLOGY  
USING ENERGY OR HEAT**



## COOPERATIVE INNOVATION

**FOR PROFIT CO-OP FUNDING ORGANIZATION TO SUPPLY  
FINANACE TO BUILD THE GREEN GOLD MARKET**

**USDA + SBDC + WEPAC = RAPID ROLLOUT IN ALL TARGET DOMESTIC MARKETS  
RAPID RAMP TIME TO FULL PRODUCTION = WORLD WIDE MANUFACTURING LOCATIONS**

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**WITHOUT NEED - ENERGY, WATER, FOOD**

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**CRAIG COLLIER**  
ccollier@green-energy-rs.com  
806-891-3057



**SHAWN BUCKLEY**  
bshawnbuckley@gmail.com  
focusedsun.com  
408-806-2299