

# The solar pool heater on your roof is **yesterday's technology.**

Solar Hybrid Electric Pool Heating (SHEPH) pairs a high-efficiency electric heat pump with a small solar electric array sized to offset what the heat pump uses. You get data, control, and a system that keeps working 365 days a year, not just when the sun hits the right angle.

SERVICE AREA: LEE · CHARLOTTE · COLLIER  
 LICENSED: CVC56956 / EC13013208  
 INSTALLING SINCE: 2015



Remember when CRT TVs got replaced by flat screens? **That is exactly where we are** in the solar pool heating industry right now.

**25+**

YEAR PANEL LIFESPAN VS. 10-12 YEARS (MORE THAN DOUBLE)

**104°F**

MAXIMUM POOL TEMP VS. 10°F ABOVE UNHEATED (ANY WEATHER, DAY OR NIGHT)

**132**

SQ. FT. STARTING FOOTPRINT VS. 400+ SQ. FT. (ONE-THIRD THE SPACE)

**0**

GALLONS ON YOUR ROOF VS. 7M+ PER YEAR (ZERO LEAK RISK)

THE FUNDAMENTAL DIFFERENCE

## Two products. **Very different futures.**

A traditional solar pool heater is a passive plastic plumbing system. SHEPH is a modern, monitored, grid-interactive solar electric system paired with a heat pump. Here is how they actually compare on the roof and in the wallet.

THE OLD WAY	THE NEW STANDARD
<b>Traditional</b> Passive plastic panels. Pool water pumped across the roof.	<b>SHEPH</b> Sleek PV panels. Heat pump at ground level. Zero water on the roof.
<p>400+ SQ FT · EXPOSED PVC · 7M+ GAL/YR</p>	<p>132 SQ FT · 0 GAL ON ROOF · HEAT PUMP</p>
LIFESPAN: <b>10-12 years</b>	LIFESPAN: <b>25+ years</b>
WARRANTY: <b>12 yr, non-transferable</b>	WARRANTY: <b>25 yr, transferable</b>
PERFORMANCE: <b>10°F rise, sunny days only</b>	PERFORMANCE: <b>Up to 104°F, any condition</b>
MONITORING: <b>None</b>	MONITORING: <b>Free for life, 15-min data</b>
WATER ON ROOF: <b>7M+ gallons per year</b>	WATER ON ROOF: <b>Zero</b>
STORM RESISTANCE: <b>Fair (thousands lost to Ian)</b>	STORM RESISTANCE: <b>Excellent (proven through Ian)</b>
LEAK POTENTIAL: <b>High. Inevitable over time.</b>	LEAK POTENTIAL: <b>None. No water, no plumbing.</b>
UPGRADE PATH: <b>None. Heats pool, nothing else.</b>	UPGRADE PATH: <b>Expandable to whole-home solar &amp; battery</b>

WHY SHEPH WINS

## Eight reasons a heat pump and PV panels **beat passive panels** every time.

We installed thousands of traditional solar pool heaters. We do not install them anymore, and we do not service them anymore either. The math, the physics, and the data all point one direction.

<p>01 / QUANTIFIABLE</p> <p><b>You actually know what you are getting.</b></p> <p>SHEPH reports production and heat pump consumption to a monitoring portal every <b>15 minutes</b>. Daily, weekly, yearly data. With a traditional solar pool heater you will never truly know how much energy you are saving. You just feel the water.</p>	<p>02 / RELIABLE</p> <p><b>Heats day, night, cloudy, cool.</b></p> <p>Passive solar only works on warm sunny days. A heat pump runs <b>independently</b> of the panels, so you set a temperature and the pool gets there. Spa? Works. Cloudy weekend? Works. Night swim? Works.</p>
<p>03 / LONGEVITY</p> <p><b>25+ year panels. No leaks.</b></p> <p>Solar electric panels have <b>no moving parts and no water passing through them</b>. Most components are warranted for 25 years. Compare that to a plastic pool panel carrying 7 million gallons per year across your roof tiles.</p>	<p>04 / NOTHING WASTED</p> <p><b>Producing every day. Even when you are not home.</b></p> <p>Traditional panels just sit up there doing nothing for 7 months a year. SHEPH panels produce power <b>every single day</b>. If your pool does not need heat, the energy offsets your home electric bill or goes to the grid for credit.</p>
<p>05 / STORM RESISTANT</p> <p><b>Aluminum and tempered glass. Rock solid.</b></p> <p>Hurricane Ian tore plastic pool panels off roofs across Southwest Florida. Solar electric panels came through with <b>only minor scattered damage</b>. Same engineered mounting hardware we use on full-home PV arrays.</p>	<p>06 / AESTHETICS</p> <p><b>Sleek. All black. No PVC on the roof.</b></p> <p>A SHEPH array starts at <b>as little as 132 sq ft</b>. No plastic panels, no white headers, no pipes running across the tile. South is ideal but east and west work almost as well. All conduit hides under panels or in the attic.</p>
<p>07 / MAINTENANCE</p> <p><b>Effectively maintenance-free panels.</b></p> <p>The panels have no service needs. We do not even recommend cleaning them. The heat pump is one outdoor appliance at ground level, simpler than an AC unit. <b>No roof leaks. Ever.</b> That alone is worth the upgrade.</p>	<p>08 / UPGRADEABLE</p> <p><b>The on-ramp to whole-home solar.</b></p> <p>A SHEPH array uses the <b>exact same panels, microinverters, and monitoring</b> as our full-home solar installations. Add panels later. Add battery backup later. Wipe out your entire power bill later. Traditional pool panels heat your pool and do nothing else, ever.</p>

TO BE FAIR

## The honest downsides of SHEPH.

Every pool heating option has trade-offs. Here are the real ones. We would rather tell you up front than after you sign.

<p><b>Higher upfront price</b></p> <p>A SHEPH system costs more on day one than passive panels. The 25+ year lifespan and the fact that you never replace plumbing or panels full of water help close the gap over time, but the check you write initially is bigger.</p>	<p><b>Longer permitting</b></p> <p>Solar electric permits take longer than pool panel permits, and fees run a little higher in some jurisdictions. We handle all the paperwork, but the calendar is what it is.</p>	<p><b>Small interconnection fee</b></p> <p>LCEC charges a \$35 interconnection fee for grid-tied solar. FPL charges nothing. Either way, it is a one-time cost.</p>
<p><b>Attic access required</b></p> <p>Most installations require us to route conduit through your attic for the cleanest look. That means being home or letting us in for install day.</p>	<p><b>You need Wi-Fi near the pool equipment</b></p> <p>The monitoring system needs a reliable Wi-Fi signal where the electrical equipment lives. Most properties already have this. Some do not.</p>	<p><b>Not unlimited free heat</b></p> <p>The system is sized to offset typical heat pump usage over the year. If you want 90°F on a 40°F January day, you can still do it, you will just pay for some of that electricity.</p>

Other than that, we genuinely cannot think of a reason to choose a traditional solar pool heater over SHEPH today. **That is a big statement from a company that installed thousands of them.**

THE BOTTOM LINE

# Quantifiable. **Reliable.** Upgradeable.

SHEPH is a fundamentally better product. You get the temperature. You see the data. The failure modes that plague your traditional solar pool heaters simply do not exist.

Call (239) 491-8010

Learn More at [floridasolar.designgroup.com](http://floridasolar.designgroup.com)