

SOLAR POOL HEATING + HOT WATER PROPOSAL

■ DEMO-01

# Prepared for Mark & Sarah Bennett

● 4521 Magnolia Way, Lakeland, FL, 33813

|  |   |  |   |
|--|---|--|---|
| <p>SOLAR COLLECTORS</p> <p><b>6</b></p> <p>HiTec HT412</p> | <p>HEATED SWIM DAYS</p> <p><b>up to 245</b></p> <p>pool at 80°F or warmer</p> | <p>EXTRA SWIM DAYS/YR</p> <p><b>82</b></p> <p>vs unheated baseline</p> | <p>SAVED VS GAS</p> <p><b>\$1,630/yr</b></p> <p>year 1, growing 4%/yr</p> |
|--|---|--|---|

|   |   |
|---|---|
| <p>■ <b>Up to 290 swim days/yr</b><br/>A full extra season for your family.</p>     | <p>■ <b>\$ \$70/yr operating cost</b><br/>vs. \$1,700 gas or \$840 straight electric.</p> |
| <p>■ <b>12-year collector warranty</b><br/>FSEC-certified, manufacturer-backed.</p> | <p>■ <b>Silent · zero emissions</b><br/>No combustion, no compressor.</p>                 |

PREPARED BY

ISSUED

VALID THROUGH

**AllSolar Energy**

**May 13, 2026**

**June 12, 2026**

# Two Solar Systems · One Install · Maximum Sun Value

You're getting the best of both worlds — solar pool heating **and** solar hot water — on the same roof, in the same install.

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| <p><b>SYSTEM 1</b></p> <p><b>■ Solar Pool Heating</b><br/>                 Heats your pool from spring through fall — up to <b>290 swim days/yr</b> vs ~100 unheated. Operating cost: <b>\$70/yr.</b></p> | <p><b>SYSTEM 2</b></p> <p><b>■ Solar Hot Water (DHW)</b><br/>                 Cuts ~80% of the cost to heat household water — showers, laundry, dishes. Tank stays hot all night via 4500W backup.</p> |
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## Why install both at once?

|  |   |
|--|---|
| <p><b>One install, one permit</b><br/>                 Your roof is opened up once. One mobilization, one permit, one round of inspections — lower combined labor cost than installing systems separately.</p> | <p><b>Maximum roof utilization</b><br/>                 Pool collectors and DHW collectors share the same south-facing roof real estate. No wasted azimuth.</p> |
| <p><b>Combined utility savings</b><br/>                 Lower pool heating fuel cost + lower electric bill for hot water = bigger annual savings vs either system alone.</p>                                   | <p><b>Year-round payback</b><br/>                 Pool runs spring–fall, DHW runs all 12 months. Together, your roof produces value every day of the year.</p>  |
| <p><b>One warranty, one team</b><br/>                 Same installer, same FSEC-certified equipment, same maintenance visit. One number to call when you need service.</p>                                     | <p><b>Adds resale value</b><br/>                 Both systems lift property value — buyers see a longer swim season AND lower utility bills.</p>                |

Your Custom Design

# 6 HiTec HT412 collectors

Designed and positioned for optimal sun exposure on your home.

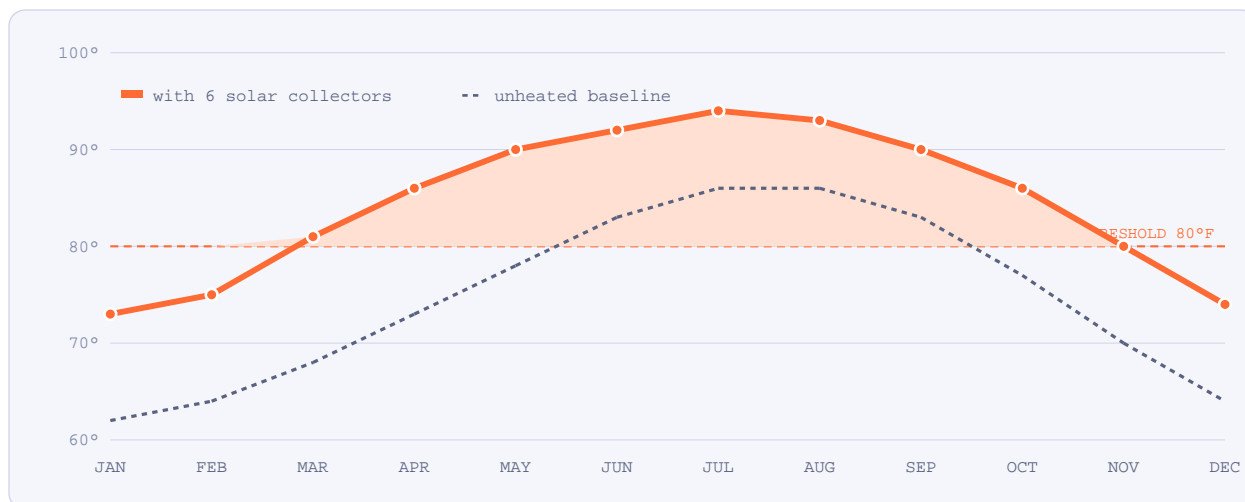


| ADDRESS                     | POOL SIZE           | ORIENTATION | COLLECTORS      |
|-----------------------------|---------------------|-------------|-----------------|
| 4521 Magnolia Way, Lakeland | 368 ft <sup>2</sup> | south       | 6 x HiTec HT412 |

Your Swim Season

## Up to 245 days at 80°F or warmer

With 6 solar collectors, your pool stays comfortable for nine months a year — not just three.



|   |   |   |
|---|---|---|
| <p>UP TO 245</p> <p><b>heated days/year</b></p> | <p>163</p> <p><b>unscreened, unheated</b></p> | <p>118</p> <p><b>screened, unheated</b></p> |
|---|---|---|

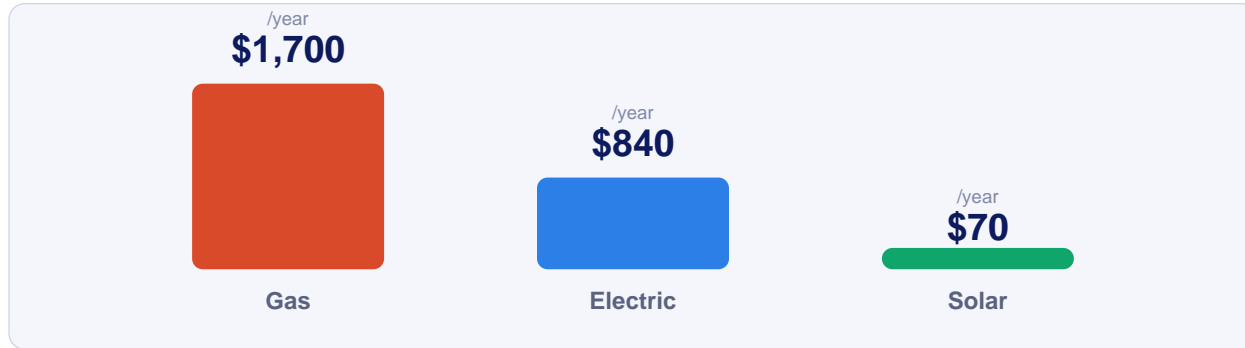
That's **82 more swim days every year** — roughly **3 extra months** compared to leaving the pool unheated.

Estimates based on FSEC-certified collector performance and historical climate data for your area. Actual swim days will vary by year.

Operating Cost

# Annual heating cost — your three options

Typical residential pool, central Florida. Solar pays for itself in fuel saved.



| Gas  | Electric  | Solar   |
|--|---|---|
| Propane or natural gas heater. Highest fuel cost. Emits combustion byproducts. | Heat pump. Half the cost of gas, but still draws ~2,500–4,000 kWh/yr from the grid. | Pump electricity only. No fuel, no compressor, no combustion. |

**Estimated savings vs gas: \$1,630/year** vs electric heat pump: **\$770/year**

Year 1 industry-average estimate. Gas prices typically rise ~4%/yr; solar holds steady at pump electricity only.

■ ESTIMATE only — not a guarantee. Actual savings vary by local utility rates, fuel costs, pool usage, and climate.

Add-on System

# ■ Solar Hot Water (DHW)

In addition to your solar pool heating system, this proposal adds a domestic hot water solar system that cuts ~80% of the energy used to heat household water.

## Solar Hot Water — Recommended System

|                  |   |
|------------------|---|
| SOLAR COLLECTORS | <p><b>1× AET Starlite SL-40</b><br/>                     37.2 ft² aperture each · aluminum absorber<br/>                     SRCC OG-100 certified · 160 psi rating</p>   |
| STORAGE TANK     | <p><b>American Water Heaters · SE62-80 (80 gal)</b><br/>                     Glass-lined steel · Built-in 4500W electric backup · R-16 insulation<br/>                     UL 174 listed · 6-year tank warranty</p> |
| SYSTEM TYPE      | <p><b>Open-loop direct (FL standard)</b><br/>                     Household: 4 occupants × 20 gpcd = 80 gal/day demand</p>  |

## System Diagram



## Maintenance & Warranty

|   |  |
|---|--|
| <p><b>Routine Maintenance</b></p> <ul style="list-style-type: none"> <li>• Annual visual inspection of collectors and plumbing</li> <li>• Replace anode rod every 4–5 years (tank longevity)</li> <li>• Flush tank annually to remove sediment</li> <li>• Verify controller sensor calibration during annual visit</li> </ul> | <p><b>Warranties</b></p> <ul style="list-style-type: none"> <li>• <b>Collectors:</b> 10-year manufacturer warranty (AET / SunEarth)</li> <li>• <b>Tank:</b> 6-year limited + parts (extendable to 10-yr)</li> <li>• <b>Controller / sensors:</b> 2-year manufacturer warranty</li> <li>• <b>Installation labor:</b> 5-year workmanship by installer</li> </ul> |
|---|--|

## Environmental Impact

# Cleaner pool, cleaner planet

Switching from gas to solar avoids 75 tons of CO<sub>2</sub> over 15 years.



**What this looks like** — A typical gas pool heater burns enough fuel each year to fill **~30 propane tanks**. Replacing it with solar means none of that combustion happens.

Industry-average emissions for a residential gas pool heater (~250k BTU, ~1,500 hr/yr) using EPA conversion factors.

## Equipment

## Your system specifications

Engineered for your roof, your pool, and Florida sun.

### Solar collectors

|                             |                      |
|-----------------------------|----------------------|
| <b>Manufacturer</b>         | HiTec                |
| <b>Model</b>                | HT412                |
| <b>Quantity</b>             | 6 collectors         |
| <b>Each panel</b>           | 4' x 12'             |
| <b>Total collector area</b> | 273 ft <sup>2</sup>  |
| <b>Flow rate</b>            | 4.8 GPM              |
| <b>Max pressure</b>         | 27 psi               |
| <b>Warranty</b>             | 12-year manufacturer |
| <b>Certification</b>        | FSEC-listed          |

### Pool details

|                          |                     |
|--------------------------|---------------------|
| <b>Pool surface area</b> | 368 ft <sup>2</sup> |
| <b>Pool shape</b>        | kidney              |
| <b>Roof orientation</b>  | south               |
| <b>Screen enclosure</b>  | Yes                 |

|                             |     |
|-----------------------------|-----|
| <b>Extended swim season</b> | Yes |
|-----------------------------|-----|

Your Investment

# Combined Solar System

|   |   |
|---|---|
| <p><b>■ POOL SYSTEM</b><br/> <b>\$6,519</b><br/>         Pool collectors + plumbing + controller + permit + install</p> | <p><b>■ DHW SYSTEM</b><br/> <b>Pricing pending</b><br/>         DHW collectors + tank + plumbing + controller + install</p> |
|---|---|

COMBINED TOTAL INSTALLED

All equipment, install labor, permit, and warranty included

**\$6,519**

ESTIMATED PAYBACK

**~5.6 yrs**

fuel savings vs gas heater

LIFETIME NET

**\$16,909**

estimated over 15-year life

YEARLY SAVINGS

**\$1,170**

year-one estimated savings

■ **Disclaimer:** Payback period and lifetime net figures are **ESTIMATES** based on assumed savings (90% solar offset for pool, gas reference cost ~\$1,700/yr). Actual figures will vary by usage, local fuel rates, and climate.

Request for the Order

## Ready to move forward, Mark?

Approve this proposal and we'll get the install on the calendar. Two ways to say yes — pick whichever is easier.

- 01 Approve your proposal**  
Reply to your share link or call us. As soon as you give us the green light, we put your install on the calendar.
- 02 Permit & engineering**  
We pull the local permit and prepare engineered drawings — usually 1–2 weeks depending on your jurisdiction.
- 03 Installation**  
Our crew completes the system in one to two working days. We protect your roof and clean up before we leave.
- 04 Final inspection**  
The local building department signs off. We meet the inspector — you don't need to be home.
- 05 Start enjoying it**  
Your controller is set, the system runs automatically. Enjoy a heated pool and cheaper hot water.

### Why AllSolar Energy

- FSEC-certified collectors, factory-trained installers
- Engineered for Florida sun, heat, and storm season

### Your Solar Consultant

#### AllSolar Energy

Ready to say yes? or reply to your share link.  
We'll handle the rest.

FSEC-certified panels · 12-year manufacturer warranty · 5-year installation warranty · Quote valid for 30 days.