Our residential sustainable energy solution is named KumuKit™, honoring the Hawaiian word for origin, source, beginning and starting point—kumu. Your KumuKit™ is a starting point for you to begin harnessing the sun, our most powerful source, and to realize a more sustainable future.

“The financial benefits of PV are often more favorable in Hawaii than any other state,” according to the Interstate Renewable Energy Council.

Fueled by a passion to accelerate the adoption of renewable energy in Hawaii, our locally owned company has become a nationally recognized solar integrator, dedicated to affordable energy solutions. For homeowners, our popular KumuKit™ PV systems are uniquely engineered to achieve peak energy production, maximize available incentives, and ultimately shrink your electric bill. While KumuKit™ systems have always been designed for optimized energy production, our KumuKit™ 2.0 now employs the latest technologies to also optimize energy usage with Smart Energy Management. KumuKit™ 2.0 with optional Powerblocks Smart Storage, is a solution that delivers smooth, stable energy to the grid, helps you store and utilize the solar energy you produce more effectively, and can even provide an emergency power source. We’ll work with you to design a customized KumuKit™ system that’s ideal for your home and budget. Get our no-pressure, no-obligation written quote. You’ll be surprised how affordable solar can be. Get connected. Join Hawaii’s clean-energy KumuHui.

We’re Eco-Friendly, User-Friendly, and Just Plain Friendly.

Steve Godmere and Chris DeBone, Owners, Hawaii Energy Connection
THE RIGHT SIZER™

Knowing the PV system size your family needs is a big deal. With the recent changes to solar interconnection, it is more important than ever. Purchasing an oversized system for your home can cost you thousands for extra panels, and even more when excess energy goes unused. Undersized systems aren’t a good deal either—the low cost is appealing, but the low solar production will disappoint you. How can you find that perfect fit? KumuKit™ systems have always been right-sized, but now, our new RIGHT SIZER™ tool can help you visualize the system size you’ll need, and better understand how to maximize it’s power. Let us show you how a right-sized KumuKit™ PV system can work for you, during a free, no pressure, solar analysis—now featuring our exclusive RIGHT SIZER™ tool!

Right-Sizing your system is key. Don’t buy more PV than you need or waste the power you generate.
Solar is a Great Investment
Enjoy a lifetime return on your investment. At 7.5% to 9%+ annual return, solar consistently outperforms all other conventional investments. KumuKit™ systems still typically have the strongest return on investment in the industry.

Right System. Right Size.
KumuKit™ systems are uniquely engineered to achieve peak energy performance, optimize energy usage, maximize available tax credits, and ultimately shrink your electric bill. We won’t sell you more than you need, and we’ll work with you to plan a KumuKit™ system that’s perfectly suited for your home and budget.

“With the new grid credit, the rate of return is between 7.5% and 9%, depending on the utility... My 401(k) is not getting 7.5%. Nobody’s is.”

— Makena Coffman
Associate Professor of Urban and Regional Planning
University of Hawaii Economic Research Organization
KumuKit™ Quality + Expertise

We build quality into every KumuKit™ with top-tier PV panels, superior micro-inverter technology, professional roof flashings, and innovative energy management—all installed by our qualified installation crews. With our Done Right Guarantee, worry-free warranties, web-based system monitoring and dedicated local service and support, you’ll be assured you chose wisely.

PROFESSIONAL INSTALLATION
KumuKit™ installers are qualified professionals. You can expect great attention to detail, quality craftsmanship and respect for you and your home.

SECURE MOUNTING WITH WATERTIGHT FLASHINGS
We are among the first PV companies in Hawaii to professionally flash all roof penetrations. Our roof flashings are the best in the business.

SOLAR PANEL WARRANTY• 25 • YEAR
INSTALLATION WORKMANSHIP WARRANTY• 10 • YEAR

watertight flashings for all types of Hawaii roofs
### KumuKit™ SYSTEM DESIGN

<table>
<thead>
<tr>
<th>Maximum Production</th>
<th>Customized for You</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KumuKit™ Maximized</strong></td>
<td><strong>KumuKit™ Custom</strong></td>
</tr>
<tr>
<td>Using your past electric bill as a guide, we’ll use our RIGHT SIZER™ tool to design a customized solar solution utilizing all viable roof space to greatly reduce your electric expense in a single installation.</td>
<td>Taking into consideration your unique situation—tax credit appetite, roof space, budget, and desired target reduction of your electric bill—we offer this alternative custom design in the event that you choose to install somewhat less than the maximum-sized system.</td>
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### KumuKit™ TOP-TIER PANELS

<table>
<thead>
<tr>
<th>High Efficiency</th>
<th>Maximum Efficiency</th>
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<tbody>
<tr>
<td><strong>LG</strong></td>
<td><strong>LG NeoN</strong></td>
</tr>
<tr>
<td>If you want the shortest payback period and best lifetime return on investment, we suggest our high efficiency LG® MonoX™ panels. These technologically advanced panels deliver excellent performance while offering superior durability. LG® offers a 25 year power warranty.</td>
<td>If your roof space is limited or you want maximum performance per square foot, we suggest our maximum efficiency LG® MonoX NeoN™ panels. When combined with micro-inverters, these premium priced panels offer one of the highest AC electricity production per square foot in the industry. LG® offers a 25 year power warranty.</td>
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</table>
SYSTEM MONITORING
KumuKit™ systems allow you to monitor your system in real-time via your web browser. You can track your system’s performance on an hourly, weekly or monthly basis. Real-time monitoring instantly exposes any problem with your system. You’ll be able to see an aerial view of your solar array(s), view a summary of your energy production, and see how you are reducing your carbon footprint.

SUPERIOR MICRO-INVERTER TECHNOLOGY
Before moving our KumuKit™ systems from central to micro-inverters, we performed our own study. Using equivalent panels side-by-side on a test roof in Mililani Mauka (which receives 5.2 solar hours per day), micro-inverters harvested 16% more AC electricity than the central inverter over a 18 month study period. Micro-inverters have many other notable advantages over central inverters, chiefly, if a solar panel or inverter fails, the system continues to perform; with central inverters, the entire system stops working.
<table>
<thead>
<tr>
<th>Micro-inverters / Optimizers</th>
<th>VS</th>
<th>Central Inverters</th>
</tr>
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<tbody>
<tr>
<td>Retain 89% to 97% of PV energy from the roof as usable AC electricity in your home.</td>
<td></td>
<td>Retain only 77% to 83% of PV energy from the roof as usable AC electricity in your home.</td>
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<tr>
<td>Use innovative “parallel wiring” allowing all panels to perform at their independent maximum ability.</td>
<td></td>
<td>Use outdated “series wiring” that restrict each panel’s output down to the poorest panel’s output.</td>
</tr>
<tr>
<td>Generate no high voltage, use ultra-safe GFI circuit protection with NO current when turned off.</td>
<td></td>
<td>Can generate up to 600 volts of high voltage DC current on your roof, even if your system is turned off.</td>
</tr>
<tr>
<td>Run cool and have no fans or moving parts. Certified NEMA 6, they are impervious to outside air, moisture and salt spray.</td>
<td></td>
<td>Run hot and require cooling fans that draw in corrosive salt air throughout the day.</td>
</tr>
<tr>
<td>If a panel or inverter fails, the system continues to perform.</td>
<td></td>
<td>If a panel fails, the entire circuit stops working.</td>
</tr>
<tr>
<td>25 year warranty and a mean-time-between-failure rate suggesting they may never need replacement.</td>
<td></td>
<td>Typically have a 10 year warranty and will require replacement by an electrician every 10-15 years.</td>
</tr>
<tr>
<td>Track individual panel performance.</td>
<td></td>
<td>Cannot track individual panel performance.</td>
</tr>
<tr>
<td>Quick-connect inverters can swap out in 5 minutes, are very small (6.8 x 6.45 x 1.0”), light (3.5lbs.), and mount out-of-sight on the rail under each panel.</td>
<td></td>
<td>Require a large string inverter box and DC disconnect switch mounted on the side of your home. An average example: (31.5 x 32.87 x 9.84”), 143lbs.</td>
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YOUR ENERGY DASHBOARD
Simple cloud-based energy management. Compare your energy production with your energy usage. Easily reconcile your electric bill. Optimize consumption of the solar energy you produce. Take advantage of the best times to send power to the grid. Monitor loads in your home. Find the energy hogs in your home. Control battery usage. Manage critical loads on emergency backup. It’s your energy, your way.

KumuKit™ Quality + Innovation
At the convergence of energy and technology; E-GEAR’s line of renewable energy interconnection products:

ACXIS® AC CIRCUIT COMBINER
INCLUDED WITH KUMUKIT™ 2.0
This innovative communication filter optimizes your PV system’s power line communications and isolates your system from potential cross-talk or line interference.

SMART ENERGY MANAGEMENT CONTROLLER
INCLUDED WITH KUMUKIT™ 2.0
Smart energy management that does it all—optimizing PV energy production, usage and export. Easy and secure web-based user tools provide monitoring and intelligent system control.

POWERBLOCKS HOME ENERGY STORAGE
AVAILABLE AS AN OPTION FOR KUMUKIT™ 2.0
A scalable solution that uses the latest battery technology to optimize PV energy usage, provide smart storage, smart export and emergency backup for your home.

E-GEAR™ energy solutions
Smart Energy Management

Smart Energy Management has the ability to leverage a PV system’s production to your advantage by automatically optimizing energy generation, usage and export. Simple and automated control of your energy means you can take advantage of all utility and grid support benefits and adapt to changing solar energy policy. Modular in design, and scalable, optional KumuKit™Powerblocks increase your PV system’s effectiveness by allowing both smart energy export or non-export/self consumption between specific times each day. Additional benefits include emergency backup for important loads such as lighting, medical equipment and refrigeration when needed.
Available Tax Credits
Now is the perfect time to buy solar and take advantage of the generous tax incentives.

Easy Financing
Our breakthrough Synergy Solar Funding™ options change everything. Every month, you pay an electric bill that is tied to rising energy costs. With a KumuKit™ Photovoltaic system, you'll start saving money on your electric bill immediately. With Synergy financing, you essentially use that savings to invest in a KumuKit™. Part of what was once a monthly expense will instead contribute to a valuable asset, with an annual return that far surpasses most traditional investments. Bonus: As utility rates increase, so will your savings and return. Your KumuKit™ actually saves you more with each passing year!

We have several Synergy financing options, each with its own unique benefits. We will provide you with information for all loan options, so that you can choose the best option for you.
### Solar PV System Purchase vs 20 Year Solar Lease/PPA

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<th><strong>Solar PV System Purchase</strong></th>
<th><strong>20 Year Solar Lease/PPA</strong></th>
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<tbody>
<tr>
<td><strong>Tax Incentives</strong></td>
<td>You get the available State and Federal tax incentives.</td>
<td>Your tax incentives usually go out-of-state to the solar leasing company.</td>
</tr>
<tr>
<td><strong>Cost Savings</strong></td>
<td>Your energy costs will be about 60% cheaper.</td>
<td>Your energy costs will only be about 5-15% cheaper.</td>
</tr>
<tr>
<td><strong>Ownership</strong></td>
<td>Payback on your KumuKit™ system is still the best in the US. You will then OWN the system, allowing you to enjoy FREE electricity for the rest of the life of the system. You’ll also benefit from the added value to your home.</td>
<td>Be aware of long-term contracts, paying more in lease payments than your system is worth. If you sell your home, the buyer will need to qualify to assume your contract. At the end of the lease, you will need to negotiate ownership, a new contract, or removal of the system.</td>
</tr>
</tbody>
</table>
| **Sustainability**   | When you purchase, 100% of your alternative energy contribution stays in Hawaii and recirculates back into our local economy, ultimately supporting Hawaii’s families. You retain the rights to your tax incentives and enjoy all of the savings for the energy produced. | Solar Lease/PPA installations burden our local infrastructure. Signing a solar lease contract not only gives away your tax incentives and the majority of the energy savings you produce to outside investors, it may also jeopardize future tax incentives for Hawaii’s families.
The KumuKit™ Process is Simple

From our no-pressure energy analysis to our easy-to-understand proposal, and right through to your installation we make solar simple. There’s no need to worry about all the paperwork. We take care of it all, including installation permits, any homeowners’ association applications, and the forms required to store electricity with your electric utility. We’ll even give you sample tax forms to make filing for all of your tax credits even easier. Feel free to ask a question. Our friendly, dedicated service and support staff are always ready to answer or help with a system issue.

We handle all the paperwork!

Join our growing KumuHui—more than 40% of our business comes from referrals by other satisfied KumuKit™ owners.
Service + Support
We have dedicated mobile service technicians on call for dispatch to your home in the event of a system problem. Our KumuKit™ Response Unit staff is also available by phone, email, and text messaging for help with other issues, such as your web-based monitoring system.

GRID-SUPPLY

Grid-Supply solar customers are credited approximately 15 cents per kilowatt-hour for the excess energy their system sends to the Utility grid. Grid-Supply has a minimum electric bill charge of $25 per month. Hurry!—The Grid-Supply program has a cap of approximately 4,500 residential systems.

SELF-SUPPLY

Self-Supply solar customers will not be allowed to export energy to the Utility grid. Batteries can be linked to PV systems, storing any excess PV energy for use later in the day. Energy needs beyond PV production and Batteries can continue to be drawn from the grid. Self-Supply installations will be approved under an expedited review by the Utility!
PV Solar Electricity

Get our no-pressure, no-obligation written quote. You’ll be surprised how affordable solar can be. Get connected. Join Hawaii’s clean-energy KumuHui.

kumukit.com  808-524-7336