



Grid-Tied Solar Power System Proposal

For

Mr. firstname lastname

Date: 27th November, 2013.

DIRECTORS: Aubyn Hill (Chairman), Ian K. Levy, Arnold Aiken, Ian Moore, Marguerite Cremin, Alexander Hill

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Kingston 10, Jamaica
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www.ireesolar.com



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address

Subject: Solar Power System for Residence

Mr. firstname lastname,

After conducting a site inspection at your residence we were able to design a grid-tied solar power system that will provide, on average, 406 kWh of power a month.

Based upon the usable roof space at your residence and your current usage of electricity on a monthly basis, we would recommend installing a 4.00 Kw solar power system.

Please find attached an estimate to install a 4.00 Kw monocrystalline grid-tied solar power solution. We can provide you with an estimate for a polycrystalline system should you require it.

Please note that the system can accept more solar modules if you choose to increase the size of the solar array and consequently, your monthly electricity production.

A solar array (multiple solar modules) will generate a certain amount of power for every month of the year given:

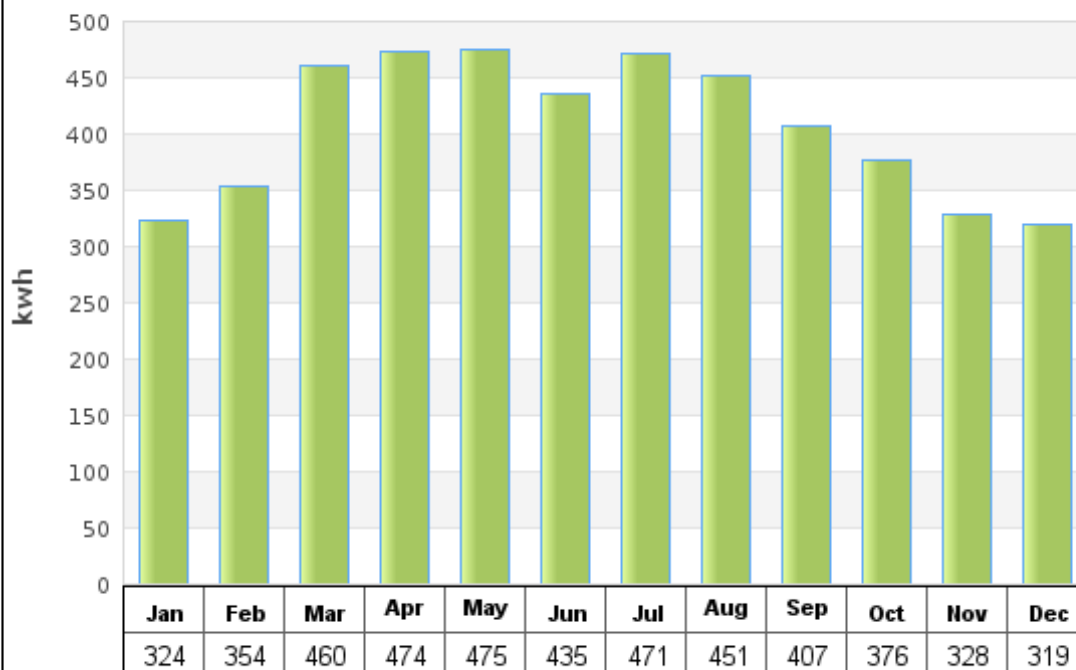
- Average solar radiation for the intended installation site for the year (Jamaica)
- Pitch of the roof or intended installation stand
- Bearing of the roof or intended installation stand
- Efficiency of the solar module and inverter being used

During our site inspection we gathered this necessary data and based on the aforementioned inputs we have arrived at the following annual electricity production figures (averages) for the 4.00 Kw installed on the usable section's of your roof:

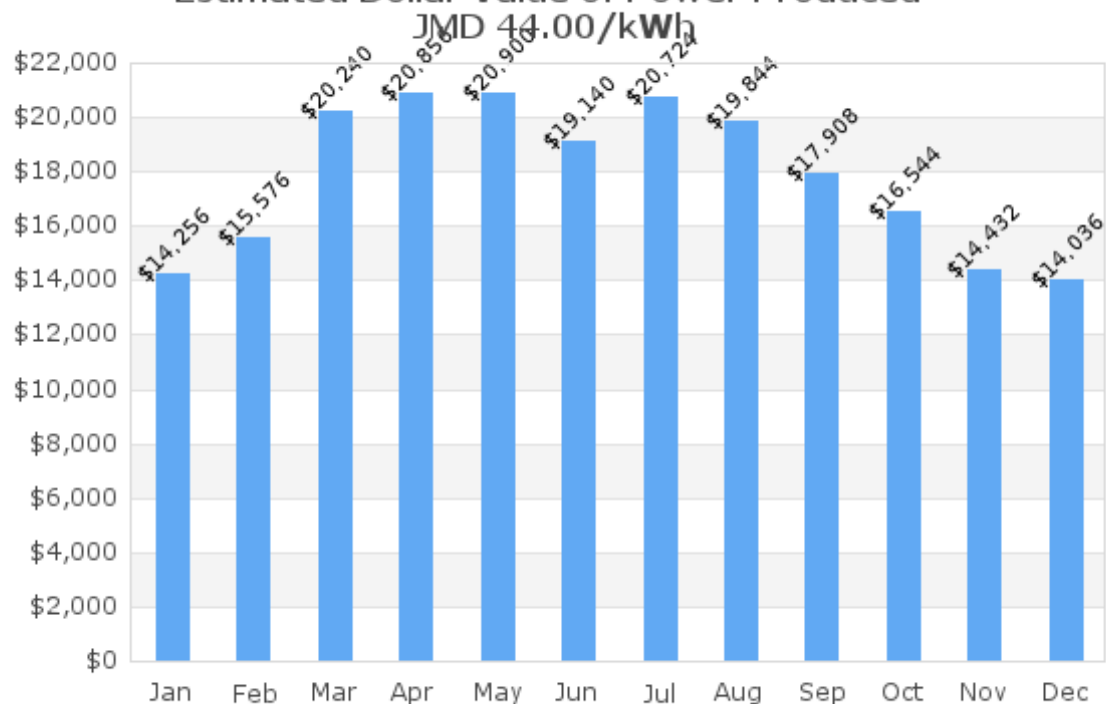
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AVG Annual kWh Production



Estimated Dollar Value of Power Produced



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Month	kWh Production	Estimated Dollar Value of Power Produced @ JMD \$44.00/kWh	Estimated Dollar Value of Power Produced (USD) 0.42/kWh
Jan	324	\$14,256	\$136
Feb	354	\$15,576	\$149
Mar	460	\$20,240	\$193
Apr	474	\$20,856	\$199
May	475	\$20,900	\$200
Jun	435	\$19,140	\$183
Jul	471	\$20,724	\$198
Aug	451	\$19,844	\$189
Sep	407	\$17,908	\$171
Oct	376	\$16,544	\$158
Nov	328	\$14,432	\$138
Dec	319	\$14,036	\$134
AVG	406	\$1,170	\$11
TOTAL	4874	\$214,456	\$2,047

Simple analysis that does not take into account inflation and assumes a constant kWh rate of JMD \$44.00

Pricing

If you were to purchase the 4.00 Kw grid-tied solar power system using cash the total installed cost of the system would be USD \$5,464.00

If you were to make a 10% equity investment towards the system, NationGrowth Micro Finance could finance the system for a period of 5 years.

The monthly payment for the system would work out to be approximately JMD \$ (This figure represents a rough calculation and not a final figure).

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ROI Analysis

System Name Plate Capacity: 4.00Kw (4,000W)

Total Installed Cost of System (USD): \$5,464.00

Assumptions For Financial Analysis:

Average Annual kWh Production Year 1: 4,874

Average Annual kWh Rate 1 (USD): 0.42

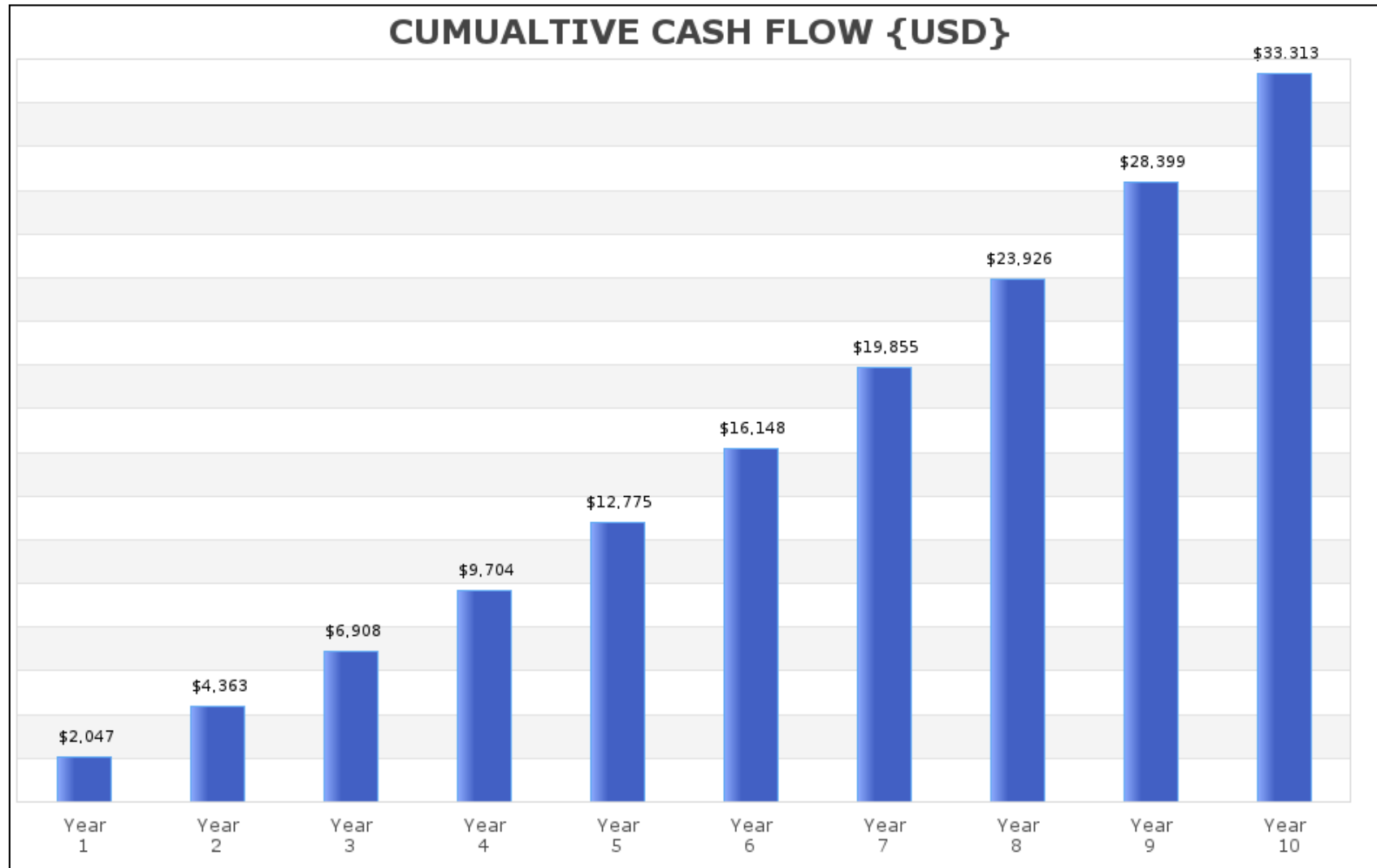
Annual Increase in kWh Rate: 10.00%

Annual Inflation of Jamaica Dollar: 15.00%

Repayment on System (Years): 2.4

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Component Parts

IREE Solar will take care of filing the standard offer contract (SOC) documentation necessary to be granted a license to interconnect to the national electricity grid in order to be able to sell any excess power your system generates back to the grid.



Solar Modules/Panels:

IREE Solar is committed to offering the highest quality products to our clients and as a direct result of this philosophy we utilize Suniva solar modules/panels. Suniva is an American manufacturer of high efficiency crystalline silicone photovoltaic solar cells and high power solar modules. Suniva cells are able to operate at conversion efficiencies of 19% (monocrystalline) which put them in a class of their own while still remaining affordable. All Suniva modules/panels are backed by a 10 year workmanship warranty and 25 year linear performance warranty ensuring high performance for the lifetime of the module/panel. All modules/panel frames are made from non-corrosive marine grade aluminium.

Racking & Hurricanes:

All our systems are installed using SnapNrack aluminium racking systems which guarantee that your solar panels are securely attached to your roof. This racking system is wind tested

for severe wind speeds up to 150 mph. That being said, the beauty of the SnapNrack system is that it allows one to easily mount solar panels due to the easy to use clamps that hold the panels to the rails. This also means that it is very easy to remove the solar panels from the rails if necessary, all one needs to release the panels from the rail system is a socket set.



SnapNrack Rail with L-Bracket Roof Attachment & Solar Panel Mid Clamp

Other racking systems are cumbersome and time consuming to operate which make taking down your panels in the case of a fast approaching hurricane a daunting and time consuming affair. Some installers actually drill holes into your solar panels to mount them to your roof which is not recommend as damage to the solar panels is quite likely to occur during the process and drilling holes into a solar panel's frame will normally void the warranty from the manufacturer.



Rail channels keep wiring under control; the flashed L-foot base is waterproof, low-profile and discreet.

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Should you require any additional information or wish to view our demo system, please contact us and we would more than happy to assist you.

Please let us know if you require any additional information.

We look forward to your favourable response.

Regards,

Alex Hill
Managing Director

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