THE SOLAR PROJECT BANTAYAN ISLAND

Project Specifications

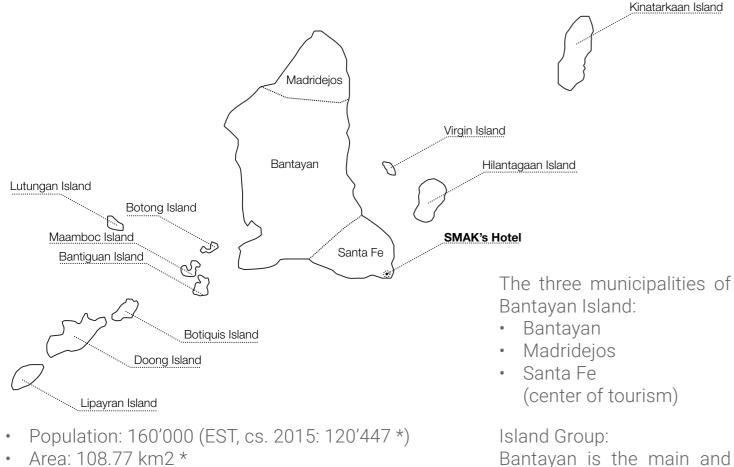
BANTAYAN ISLAND

Our Vision

Ecologically sustainable development is always linked to the social and economic stability of an ecosystem. Our vision: sustainable tourism through solar energy. We want to react to the economic

and social consequences of the COVID-19 pandemic by contributing to a more sustainable tourism industry in the Philippines.

Location



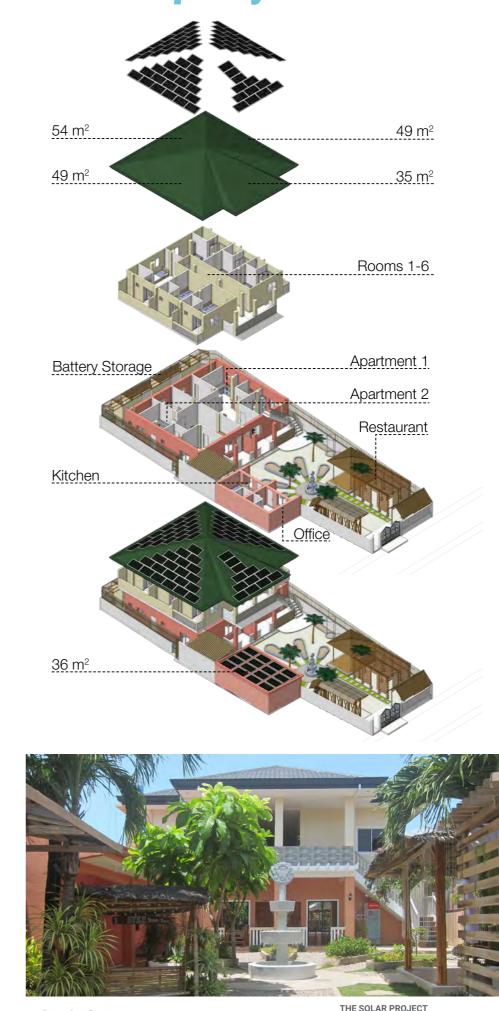
- Area: 108.77 km2 *
- Energy Consumption p.a.: 0.82 TWh (EST)
- Energy Sources: 98% Fossil fuels (EST)

* Source: https://en.wikipedia.org/wiki/Bantayan_Island



20 Islands) that lies close to the geographical centre of the Philippine archipelago. Project Specifications

The Property



Project Specification October 2021

÷ BANTAYAN ISLAND

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BANTAYAN ISLAND

«SMAK's Hotel» is our boutique Hotel in Santa Fe. Bantayan Island - Philppines Rooms: 2x Two Bedroom Apartments 4x Double Rooms 2x Deluxe Double Room with Extra Bed Amenities: All bedrooms are equipped with Split Type Inverter Air-Conditioners. The two Apartments on the

ground floor have each an Inverter Refrigerator.

Four of the Bedrooms upstairs have a Mini Bar Fridge All of the 10 Showers have each a flow heater.

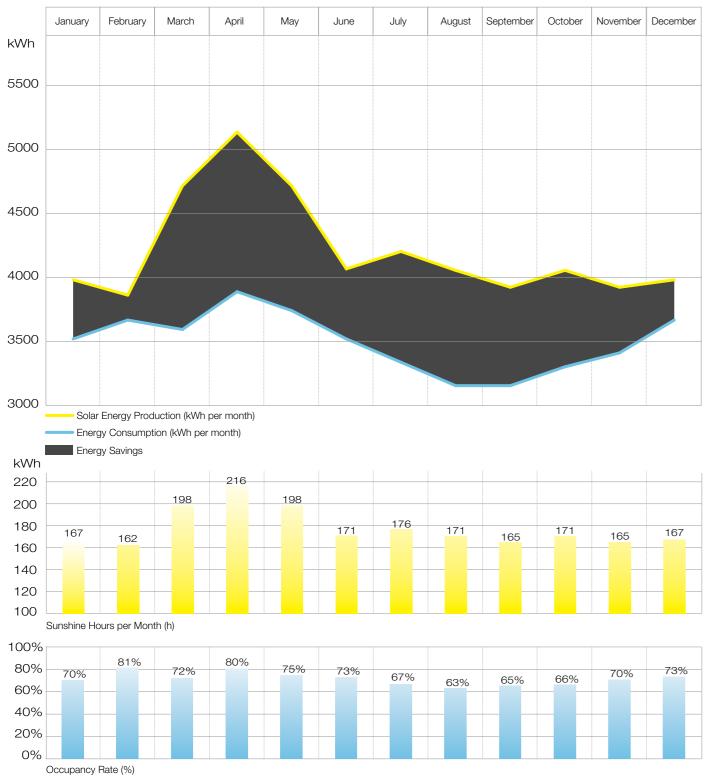
Sure, comfort is sometimes in conflict with the rational handling of energetic resources.

Check our location here on google maps:

SMAK's Hotel



Facts & Figures



- Avg. Sunshine hours per day on Bantayan Island: 5.83h *
- Avg. Energy Consumption Monthly (70% Occupancy): 3422 kWh ** .
- Roof Space (total): 222 m2
- Roof Space (useable, *0.65): 144.5 m2
- Standard Size Solar Panel: 1m x 1.7m = 1.7m2
- Number of Solar Panels: 85 (280 W per hour)
- Av. Solar Electricity Production (Monthly): 4519 kWh

* Source: https://beach-weather.com ** Source: Monthly Electricity Bill (Bantayan Island Electricity Corp. BANELCO)

THE SOLAR PROJECT	
BANTAYAN ISLAND	

Month **	0 000	0.002	4710	0 100	4710	0
Energy Consumption kWh per Day ***	114	131	116	130	121	1
Energy Consumption kWh per Month ***	3'520	3'667	3'593	3'887	3'740	3'5
Energy Savings kWh per Month with Solar	460	195	1'124	1'249	977	5
ELECTRICITY COSTS	AND SAVING	GS				
Electricity Costs PHP per Month (on Grid, non Solar) ****	33'890	35'302	34'596	37'420	36'008	33'8
Electricity Costs USD per Month (on Grid, non Solar) *****	692	720	706	764	735	6
Savings USD on Electricity per month	89	38	217	241	188	1
* Percentage ** 85 Panels *** Average u **** Accordin ***** 1 USD =	on 144 r Isage pe Ig to mo	m2 Root er guest nthly ele	f space, staying	Energy overnig	product ht: 7.33	ion pe kWh
Throu	Igh	So	arl	_ =ne	ergy	\sim
120%	of	our	m(onth	nly I	En
Occup	ban	су (of 7	0%	. Th	68
tricity	hill	IS 2	ho	1 1	\bigcap %	of
			100	u l i	0 / 0	U I

March

31

6.4

198.4

490

72%

152

4'718

28

5.8

162.4

500

81%

138

3'862

NSHINE HOURS AND OCCUPANC

Sunshine Hours per

Sunshine Hours per

Guests Staying

Occupancy Rate

Production kWh pe Day *

Production kWh per

Solar Energy

Solar Energy

Overnight

Month

31

54

167.4

480

70%

128

3'980

ENERGY CONSUMPTION AND PRODUCTION

April

30

7.2

216.0

530

80%

171

5'136

31

6.4

198.4

510

75%

152

4'718

57

171.0

480

73%

136

4'066

117

3'520

546

33'890

692

105

- For a completely self-sufficient, off-grid solar system, about 10 batteries (13.5 kWh) would be needed as storage.
- For a hybrid solar system connected to the grid, 2 batteries (13.5 kWh) would be sufficient to meet the energy demand during temporary electricity outages.

Project Specifications October 2021

Project Specifications

October 2021



July	August	September	October	November	December	Average	Total Year
31	31	30	31	30	31		365.0
5.7	5.5	5.5	5.5	5.5	5.4	5.8	
176.7	170.5	165.0	170.5	165.0	167.4	177.4	2'129
455	430	430	450	465	500	476.7	5'720
67%	63%	65%	66%	70%	73%	71%	
136	131	131	131	131	128	138.7	
4'202	4'054	3'923	4'054	3'923	3'980	4'218	50'616
108	102	105	106	114	118	115	
3'337	3'153	3'153	3'300	3'410	3'667	3'496	41'949
865	901	770	754	513	314	722	8'667
32'125	30'360	30'360	31'772	32'831	35'302	33'655	403'854
656	620	620	648	670	720	687	8'242
167	174	148	145	99	60	139	1'670

(in total 10 rooms good for 2-3 persons) ction per Panel: 280 W per hour

PHP 9.44 (USD 0.18)

y we could produce more than Energy usage with an average he actual average monthly elec-% of the total cost under normal operation and around 6% of the monthly revenue.

Be part of the change and get rewarded

We want to use the abundant energy of the sun not only for moments of happiness for our guests, but also for independent climate-neutral production of power.

For your contribution we will invite you to stay here on one of the most amazing islands! Experience the great hospitality like also the relaxing atmosphere on Bantayan Island. If no time to travel we are happy to put your name on our Wall of Fame.



Thank you so much for your support and we hope to welcome you here on Bantayan Island soon!

The Solar Project - Bantayan Island







bantayanisland.info/solar

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