

**WORLD
CASHEW
CONVENTION
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JNEC-CI
Journées Nationales
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12-14 Feb, 2020
Radisson Blu Hotel
Abidjan, Cote d'Ivoire

RENEWABLE ENERGY...ADDING VALUE TO CASHEW PROCESSING



Kalbavi Prakash Rao

KALBAVI CASHEWS

RENEWABLE ENERGY

- Solar
- Wind
- Rain
- Tides
- Waves
- Geothermal heat



WHY RENEWABLE ENERGY?

- Challenge - climate change
- Sustainable energy required
- New mantra- carbon neutrality
- (Reducing carbon emissions)
- Easiest way to achieve- generate energy from renewable source
- Recycle, reuse, reduce



EASIEST TO ADOPT..

- Solar energy
- Rain water
- Subsidies available for both

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WHY SOLAR?

- India goal: 100 gw of rooftop inst by fy22
- Cost of roof top solar installation has dropped by over 50% in the last 3 yrs.
- Payback: under 4 years
- Accelerated depreciation. Income-tax benefit
- State govt subsidy of 33%- max 15 lakhs
- Significant cost benefit. Enhancing competitiveness





CASHEW ENERGY METER

- 20 mt capacity per day unit
- Daily avg energy consumption: 20,00,000w
- 2 mln units = 2000 kwh/day
= 50,000 kwh/month = 600,000 kwh/year!!
- Cashew industry <y2k : no power
- Cashew industry >y2k : only power



KALBAVI CASHEWS..

Green electricity project

- India Roof top solar power: 80% of installed load
- Kc: installed capacity: 350 kw
- Solar project: 300 kw roof top panels
- Area required for 1 kw: 80 sft
- 300 kw= 24000 sft roof top
(Including cat walk)



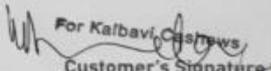


KALBAVI'S SOLAR PROJECT

- Size: 300kWp
- Solar Panels: 330Wp x 910 nos
- Installation Date: 23rd Jul 2018
- Reduction in Electricity bill: 84%
- Estimated Savings: US\$35,600 / yr
- Payback: 3 years 2 months
- DESIGNED AND INSTALLED BY : ORB ENERGY,BANGALORE



IMPACT ASSESSMENT

Impact Assessment Report				
Customer Name	KALBAVI CASHEWS			
Address	BAIKAMPADY INDUSTRIAL AREA MANGALORE			
Mobile Number	9960052715			
System Installed	300 KWP			
Date of Installation				
Cost of Electricity Before Solar Installation				
Month	EB Bill Number	Units Consumed	Amount Paid to EB	
MAY-19		29,100	2,734,56	
JUN-19		37,560	3,270,02	
JUL-19		40,760	3,49,530	
Total		(a) 107,420	(b) 9,49,988	
A. Average Amount Spent per Month		(b) ₃	316,663	
B. Average Units Consumed per Month		(a) ₃	35,807	
Cost of Electricity After Solar Installation				
Month	EB Bill No.	Total Units Consumed (Solar + EB)	Solar Units Generated	Amount Paid to EB
SEP-19		37,998	30,998	1,18,417
OCT-19		41,483	34,803	1,09,941
NOV-19		34,438	31,078	86,402
Total		(c) 113,919	(d) 96,079	(e) 34,760
C. New Average Amount Spent per Month		(e) ₃	1,04,920	
D. New Average Units Consumed per Month		(c-d) ₃	5,946	
E. Percentage Reduction in Units Consumed		$(1 - \frac{D}{B}) \times 100$	84 %	
F. Total Savings per Month (A - C)		2,11,743		
G. Total Savings per Year (F x 12 months)		2,540,916		
Date: 02/01/2020.				
 For Kalbavi Cashews, Customer's Signature Partner:				



Before installing rooftop solar system

After installing rooftop solar system



DRONE VIEW

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THANK YOU

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