Flint Hills Renewable Energy & Efficiency Cooperative, Inc

System Size		With Monitor		- 30% Tax Credit			Watts	\$/Watt	Yrly Return	* ROI		Estimate	
# Panels	3	\$	2,496.53	\$	1,748		870	\$2.01	\$144.55	8.3%	\$	3,881	
	4	\$	2,998.37	\$	2,099		1160	\$1.81	\$192.74	9.2%	\$	5,174	
	5	\$	3,500.22	\$	2,450		1450	\$1.69	\$240.92	9.8%	\$	6,468	
	6	\$	4,002.06	\$	2,801		1740	\$1.61	\$289.11	10.3%	\$	7,761	
	7	\$	4,503.90	\$	3,153		2030	\$1.55	\$337.29	10.7%	\$	9,055	
	8	\$	5,005.75	\$	3,504		2320	\$1.51	\$385.48	11.0%	\$	10,348	
	9	\$	5,507.59	\$	3,855		2610	\$1.48	\$433.66	11.2%	\$	11,642	
	10	\$	6,009.43	\$	4,207		2900	\$1.45	\$481.85	11.5%	\$	12,935	
	11	\$	6,511.28	\$	4,558		3190	\$1.43	\$530.03	11.6%	\$	14,229	
	12	\$	7,013.12	\$	4,909		3480	\$1.41	\$578.22	11.8%	\$	15,522	
	13	\$	7,514.96	\$	5,260		3770	\$1.40	\$626.40	11.9%	\$	16,816	
	14	\$	8,016.81	\$	5,612		4060	\$1.38	\$674.58	12.0%	\$	18,109	
	15	\$	8,518.65	\$	5,963		4350	\$1.37	\$722.77	12.1%	\$	19,403	
	16	\$	9,020.49	\$	6,314		4640	\$1.36	\$770.95	12.2%	\$	20,696	
	17	\$	9,522.34	\$	6,666		4930	\$1.35	\$819.14	12.3%	\$	21,990	
	18	\$	10,024.18	\$	7,017		5220	\$1.34	\$867.32	12.4%	\$	23,284	
	19	\$	10,526.02	\$	7,368		5510	\$1.34	\$915.51	12.4%	\$	24,577	
	20	\$	11,027.87	\$	7,720		5800	\$1.33	\$963.69	12.5%	\$	25,871	
	* Commercial Installers charge by the "Name Plate Capacity" instead of the actual capacity									as determin	ed by	the inver	
	Fees and Permits will run approximately \$115										Yearly Return from		
	Electrician will typically charge \$300-\$400 to run back to your breaker panel.										National Renewable Energ		

www.fhreec.org Email: www.mail@fhreec.org or Call: 785/539-1956

Rail Sizing, 340 Watt PV Panels, 77.2" X 39.1" X 1.57"

Panels in		Rail	L-Leg Spa	ASCE 7-10, IBC 2009					
Portrait	39.1	Width	UniRac				Wind Speed:	110 MPH	
#	Inches	Ft & In	http://www.u	nirac.com/			Snow Load:	10 PSF	
1	42.1	3'6"	RAILS?	SM	SM-HD				
2	83.2	7'							
3	122.3	10' 2"	MAX SPAN	?					
4	161.4	13'5"	[portrait]						
5		16'8"	Zone 1	96"	100"				
6	239.6		Zone 2	96"	100"				
7		23'6"	Zone 3	96"	100"				
8	317.8		MAX CANTI						
9	356.9		[portrait]						
10	396	33'	Zone 1	32"	32"				
11	435.1		Zone 2	32"	32"				
12	474.2		Zone 3	32"	32"				
13	513.3				ns work for a	ll roof zo	nes		
14	552.4	46'	11010 1110	и иго ора	III WOIK IOI C	100120			
15	591.5		Rails come	in 11'	14', and 1	7' length	15		
16	630.6		Lengths ca			lengti	13		
10	030.0	32 0	Portrait	an be spii	ceu.	Evory 6	rafters on 16"	00	
Panels in			FOILIAIL			-	rafters on 24"		
Landscape	Length	77.2		-		-	oans work on		
#	Inches	Ft & In					ld or new roofs		
1	82.2	7'				most o	lu of flew roots		
2	159.4	-				For a	good measure	ment	
3	236.6						your roof (not		
4	313.8		Landscape				Zoom in to you		
5	391		Landscape				gle Earth or yo		
6	468.2	39'			A		's GIS website.		
7	545.4		711	111			asuring tool, dr		
8		51'10"					from one point		
9		58' 4"					er on the roof		
10	777	64' 9"				want to measure. Then compare			
							hart on the left	·	
100 P							End-	clamps	
Leg & R	dII					eth penetrate th	rough the	1	
/////						ish of module f bond listed to U		V	
						\			
						\			
	_ (Mid-	-clamps			l .	
			The Particular Particular Property of the Particular Pa		V	3			
			THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW			-		V	
			. Andrew		1		-	(4)	
	- 1		See See		War Land				
			Spax Screws w.		1/4	1			
	- 1		Spax Screws w. Geosel Roof Sealant under L-Leg		Val.				

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