Prepared For:

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IGS 1143 Dryden Rd Test

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About Intelligent Green Solutions LLC

Proven Track Record

Founded in 2011, IGS offers premier renewable energy solutions in Upstate New York, Delaware, and California.

Together our team has completed over 1,000 renewable energy installations including both solar electric, solar space heating, and process heating plants around the world.

Guaranteed Performance

We guarantee the amount of energy your system produces by offering the industries leading equipment which is backed by a 25 year power guarantee warranty. We also provide a bumper-to-bumper warranty: maintaining and repairing your entire system for the first five years. We put our money where our mouth is, with the best coverage in the industry, at no additional cost.

Proven Approach

We believe when it comes to making improvements to a home or business its important to incorporate proven and reliable solutions. IGS deploys a very disciplined process when it comes to system design, material selection and installation techniques. Our aim is to ensure our customers receive a system which exceeds their expectations and is plug and play.

Highest Quality

We hire and train the best installers in the business. We manage the entire design, engineering and installation process in house to help pass savings onto our customers and maintain the highest quality standard.

Customer Testimonials

"As a customer of IGS for about a decade, I have had nothing but pleasant experiences with the sales and service staff. My solar hot water system has been fully operational for that time with no issues whatsoever.."

Andy Matviak
Mayor, Sidney NY

"We were so pleased to learn that our property would qualify for solar. We believe that everyone who can do it, should do it. We are very happy with the design and location of the system. The system has proven its value with our cost savings. The entire IGS crew was very professional and everything was completed as expected and in a timely manner."

Whit and Rosemary
Homeowner, Oneonta, NY

"Running a manufacturing facility requires a lot of hot water for facility cleanup. I've been a customer of IGS for over three years, having both a system on my manufacturing building and residence. Both systems have been running great, providing us with more than enough hot water.."

Eric Wilson
CEO & Owner, USA Custom Pad, NY

Your Utility Today, Without Solar

Utility Details			Cost Details		
Utility Company	Current Rate Schedule	Utility Escalation Rate	Total Utility Bill	Total Usage (kWh)	Avg blended cost
NYSEG	SC 1	5.0%	$1,225	11,100 kWh	$0.110/kWh

Monthly usage & billing data:

Time Periods	Energy Use (kWh)	Charges	Charges	
Bill Ranges & Seasons	Total	Other	Energy	Total
1/1/2020 - 2/1/2020 S	750	$16	$70	$86
2/1/2020 - 3/1/2020 S	750	$16	$70	$86
3/1/2019 - 4/1/2019 S	1,000	$16	$93	$109
4/1/2019 - 5/1/2019 S	1,000	$16	$93	$109
5/1/2019 - 6/1/2019 S	1,000	$16	$93	$109
6/1/2019 - 7/1/2019 S	1,100	$16	$102	$118
7/1/2019 - 8/1/2019 S	1,100	$16	$102	$118
8/1/2019 - 9/1/2019 S	1,100	$16	$102	$118
9/1/2019 - 10/1/2019 S	1,000	$16	$93	$109
10/1/2019 - 11/1/2019 S	800	$16	$74	$90
11/1/2019 - 12/1/2019 S	750	$16	$70	$86
12/1/2019 - 1/1/2020 S	750	$16	$70	$86
Totals:	11,100	$191	$1,034	$1,225

Your Information

IGS
1143 Dryden Rd
Ithaca, NY 14850

About Your Utility

No choice:
Your utility is 100+ year old monopoly, meaning they don't have competition, they have guaranteed profits and you don't have any say.

Rates are rising:
New York has some of the highest average retail electricity prices in the country. On average we anticipate rates will increase by 5.0% annually.

Pollution:
Over 2/3rds of utility energy generation comes from fossil-fuel plants, like coal or natural gas. This leads to pollution, climate change, and health impacts in our communities.

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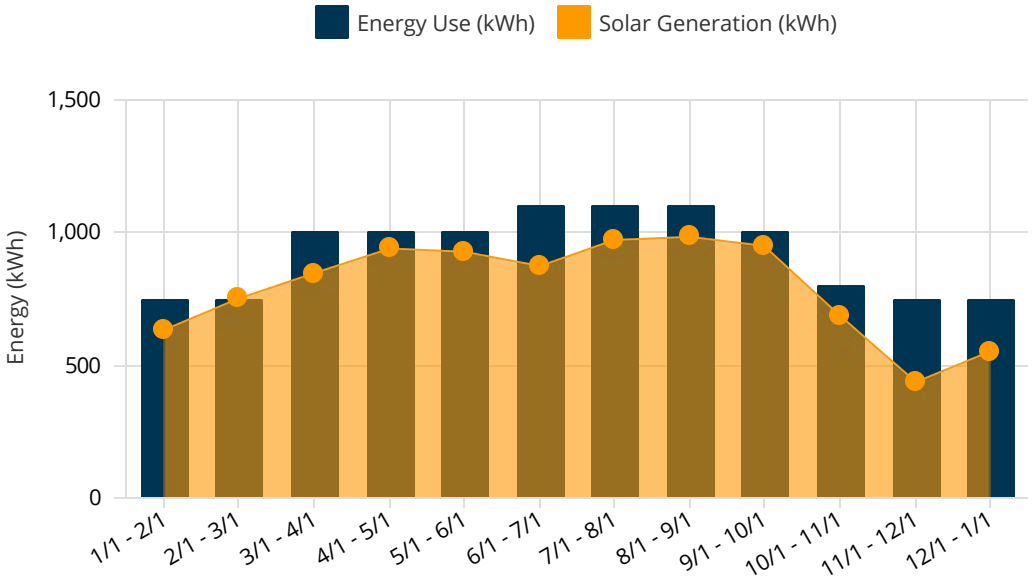
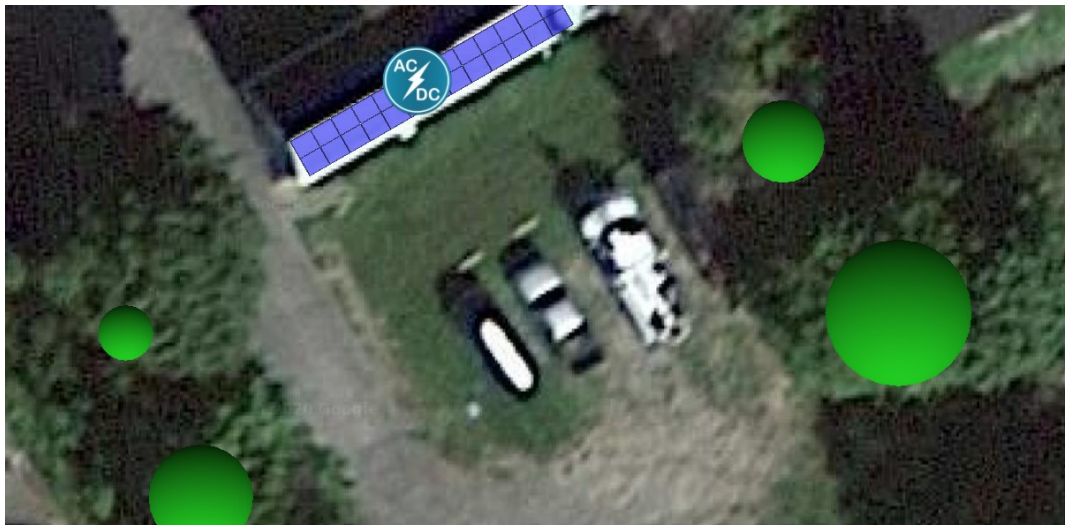
Solar PV System Details

System Size & Generation:

8,320 W-DC	System Size (DC)
7,247 W-AC	System Size (AC)
9,555 kWh	1st Year Generation



Roof layout rendering:



Equipment:

(26) Trina Solar TSM-DE05H(II) 320	Solar panels
(1) SolarEdge SE7600A-US (240V)	Inverter(s)

System Pricing & Incentives:

Solar PV System Cost	$20,800
Federal Tax Credit	-$5,408
New York – Tax Credit	-$5,000
Net Solar PV System Cost:	**$10,392**

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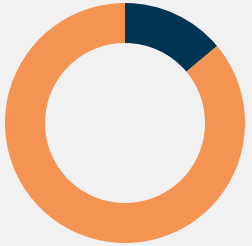
Your Future Utility, With Solar

Utility Details			Savings Details		
Utility Company	Post-solar Rate Schedule	Annual usage	Total Savings	Total Solar Production	Avg blended savings
NYSEG	SC 1	11,100 kWh	$890	9,555 kWh	$0.093/kWh

Monthly Utility Bills, Post-Solar

Time Periods	Energy Use (kWh)	Charges	Charges	
Bill Ranges & Seasons	Total	Other	Energy	Total
1/1/2020 - 2/1/2020 S	117	$16	$11	$27
2/1/2020 - 3/1/2020 S	-1	$16	$0	$16
3/1/2019 - 4/1/2019 S	153	$16	$14	$30
4/1/2019 - 5/1/2019 S	60	$16	$6	$22
5/1/2019 - 6/1/2019 S	72	$16	$7	$23
6/1/2019 - 7/1/2019 S	226	$16	$21	$37
7/1/2019 - 8/1/2019 S	128	$16	$12	$28
8/1/2019 - 9/1/2019 S	116	$16	$11	$27
9/1/2019 - 10/1/2019 S	50	$16	$5	$21
10/1/2019 - 11/1/2019 S	113	$16	$11	$26
11/1/2019 - 12/1/2019 S	313	$16	$29	$45
12/1/2019 - 1/1/2020 S	198	$16	$18	$34
Totals:	1,545	$191	$144	$335

Solar Production Offset %:



Utility	1,545 kWh (13.92%)
Solar PV	9,555 kWh (86.08%)

Avoided Cost calculation:

Pre-solar utility bill:	$1,225
Post-solar utility bill:	$335
Savings:	$890

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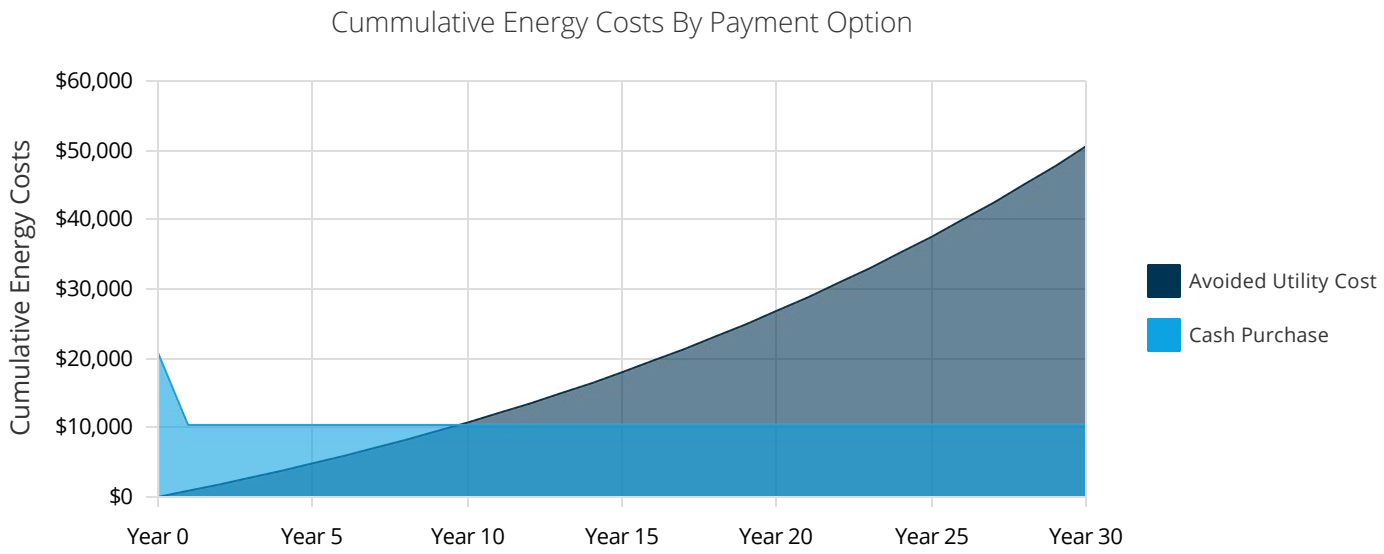
Financing Summary

Payment Options	Cash Purchase
Upfront Payment	$20,800
Total Payments	$20,800
Rebates and Incentives	$10,408
Net Payments	$10,392
30-Year Electric Bill Savings	$50,587
30-Year IRR	10.66%
30-Year LCOE PV	$0.041
30-Year NPV	$11,585
Payback Period	9.7 Years



Benefits of Payment Options:

Cash Purchase:

- Maximize your savings by owning a secure long-term investment.
- Use federal investment tax credit to reduce your tax liability.
- Increase the market value of your home.

Lease or PPA:

Commercial Customers Only

- Receive the benefits of having solar, with little or no money down.
- Avoid the responsibility of maintenance and repairs.
- Do not have tax liability to monetize the federal tax credit.

Financed:

- Numerous low-cost, low interest rate loan programs are available.
- 'Own' an asset that generates significant financial value, unlike other home improvement loans.
- Achieve immediate savings, as you repay the loan over time.

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Cash Purchase - Cash Flow Analysis

Years	Cash		PV Generation (kWh)	State Taxes	Federal Taxes	Total Cash Flow	Cumulative Cash Flow
	Project Costs	Electric Bill Savings		New York – Tax Credit	Federal Tax Credit		
Upfront	-$20,800	-	-	-	-	-$20,800	-$20,800
1	-	$890	9,555	$5,000	$5,408	$11,298	-$9,502
2	-	$927	9,479	-	-	$927	-$8,576
3	-	$965	9,402	-	-	$965	-$7,610
4	-	$1,005	9,326	-	-	$1,005	-$6,605
5	-	$1,047	9,249	-	-	$1,047	-$5,558
6	-	$1,090	9,173	-	-	$1,090	-$4,468
7	-	$1,135	9,096	-	-	$1,135	-$3,333
8	-	$1,182	9,020	-	-	$1,182	-$2,151
9	-	$1,230	8,943	-	-	$1,230	-$921
10	-	$1,281	8,867	-	-	$1,281	$360
11	-	$1,333	8,791	-	-	$1,333	$1,694
12	-	$1,388	8,714	-	-	$1,388	$3,082
13	-	$1,444	8,638	-	-	$1,444	$4,526
14	-	$1,503	8,561	-	-	$1,503	$6,029
15	-	$1,564	8,485	-	-	$1,564	$7,594
16	-	$1,628	8,408	-	-	$1,628	$9,221
17	-	$1,694	8,332	-	-	$1,694	$10,915
18	-	$1,762	8,256	-	-	$1,762	$12,677
19	-	$1,833	8,179	-	-	$1,833	$14,510
20	-	$1,907	8,103	-	-	$1,907	$16,416
21	-	$1,983	8,026	-	-	$1,983	$18,399
22	-	$2,062	7,950	-	-	$2,062	$20,462
23	-	$2,145	7,873	-	-	$2,145	$22,606
24	-	$2,230	7,797	-	-	$2,230	$24,836
25	-	$2,319	7,720	-	-	$2,319	$27,155
26	-	$2,410	7,644	-	-	$2,410	$29,565
27	-	$2,506	7,568	-	-	$2,506	$32,071
28	-	$2,604	7,491	-	-	$2,604	$34,675
29	-	$2,707	7,415	-	-	$2,707	$37,382
30	-	$2,813	7,338	-	-	$2,813	$40,195
Totals:	-$20,800	$50,587	253,399	$5,000	$5,408	$40,195	-

Financial Metrics

Payback:	9.7 Years
ROI:	193.2%
10 Year IRR:	0.5%
20 Year IRR:	8.7%

Assumptions

Utility Escalator:	5.0%
Federal tax rate:	30.0%
State tax rate:	8.0%
Modeling:	Before Tax

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