

D-COM ENERGY SOLUTIONS



Arena

D-Com Energy Solutions

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1 ABOUT US



OUR HISTORY

D-Com Energy Solutions started in 2001, offering low-voltage data and electrical services, including:

- *Fiber optics*
- *Network cable installations*
- *Sound and security integrations*
- *Fire alarm installations*

From the very beginning, we've kept our eyes on the immense possibilities technology can achieve. And, as the industry has progressed over the years to include all manner of data, we've grown – and thrived – with it. With each step, we've gained expertise and experience which we've worked to leverage to take on new challenges and larger projects.

REACHING FOR THE SUN

Ten years later in 2011, we saw a similar chance for growth in the solar sector. While solar energy was still a young industry, we took everything we'd learned from our years of installation experience and started a new venture installing solar panels.

With a long history in electrical installations, we were able to take on large, industrial projects alongside smaller solutions. Once again, we grew as the industry moved from small, residential installations to major energy production plants.

Soon, we were working with companies across western Canada to install and maintain major solar farms.

2 PROJECT PORTFOLIO



FARM SOLAR PV

Services Provided: Design & Development

Location: SOUTHERN ALBERTA

PROVEN TRACK RECORD & PERFORMANCE GUARANTEES



TOWN OF CARDSTON

System Rating: 1.9 MW

Services Provided: Design Input & Construction

Location: Cardston, AB



LETHBRIDGE COUNTY BUILDING

Services Provided: Electrical Upgrades & Solar Installation

Location: Lethbridge, AB



MED HAT HIGH SCHOOL

Services Provided: Design Build

Location: Medicine Hat, AB

3 PROJECT SUMMARY

Payment Options	Arena Solar Loan
IRR - Term	24.0%
LCOE PV Generation	\$0.046 /kWh
Net Present Value	\$1,259,080
Total Payments	\$513,498
Total Incentives	\$154,049
Net Payments	\$359,449
Electric Bill Savings - Term	\$3,491,359
Upfront Payment	\$513,498
Loan Term	10 Years

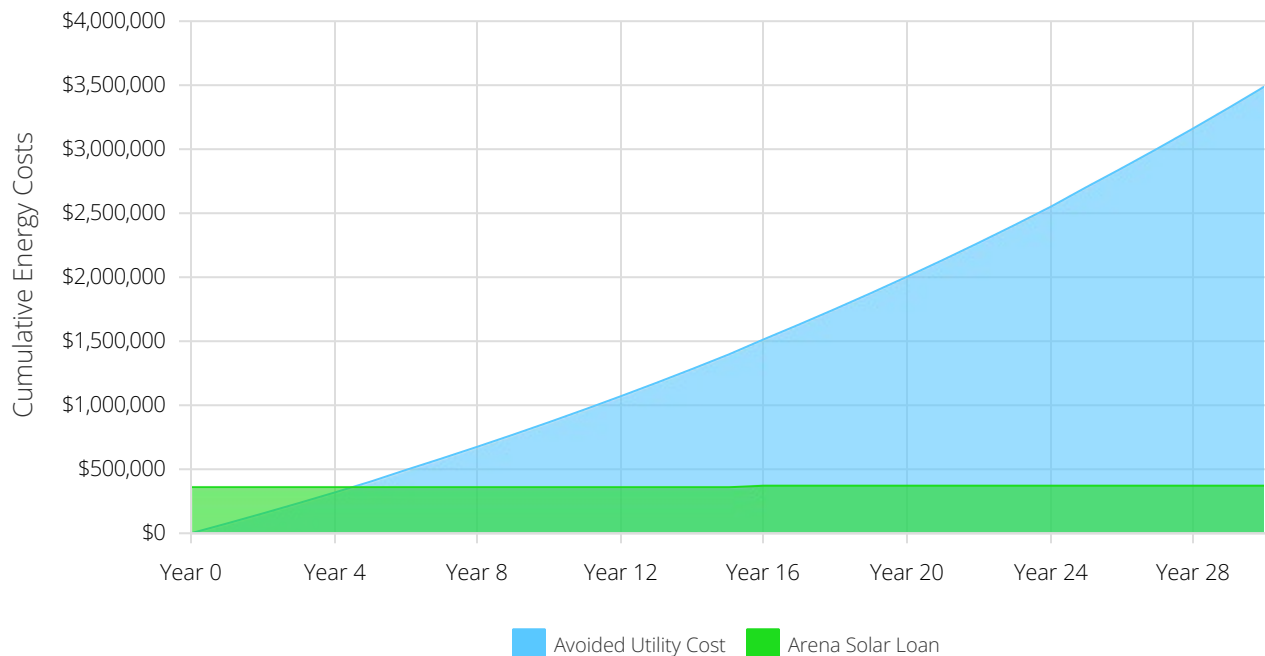
COMBINED SOLAR PV RATING

Power Rating: 280,600 W-DC
 Power Rating: 246,588 W-AC-CEC

COMBINED ESS RATINGS

Energy Capacity: 0.0 kWh
 Power Rating: 0.0 kW

CUMULATIVE ENERGY COSTS BY PAYMENT OPTION



4.1.1 PV SYSTEM DETAILS

GENERAL INFORMATION

Facility: Meter #1
 Address: 111 55 Ave W Claresholm AB T0L 0T0

SOLAR PV SYSTEM RATING

Power Rating: 280,600 W-DC
 Power Rating: 246,588 W-AC-CEC

SOLAR PV EQUIPMENT DESCRIPTION

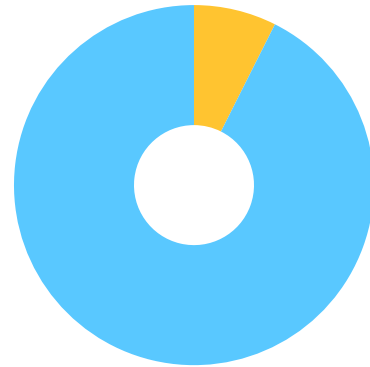
Solar Panels: (460) Longi LR7-72HGD-610M
 Inverters: (1) Ginlong Technologies Solis-100K-5G-US, (1) Ginlong Technologies Solis-40K-HV-1100V

ENERGY CONSUMPTION MIX

Annual Energy Use: 291,876 kWh

SOLAR PV EQUIPMENT TYPICAL LIFESPAN

Solar Panels: Greater than 30 Years
 Inverters: 15 Years



Solar PV System Cost and Incentives

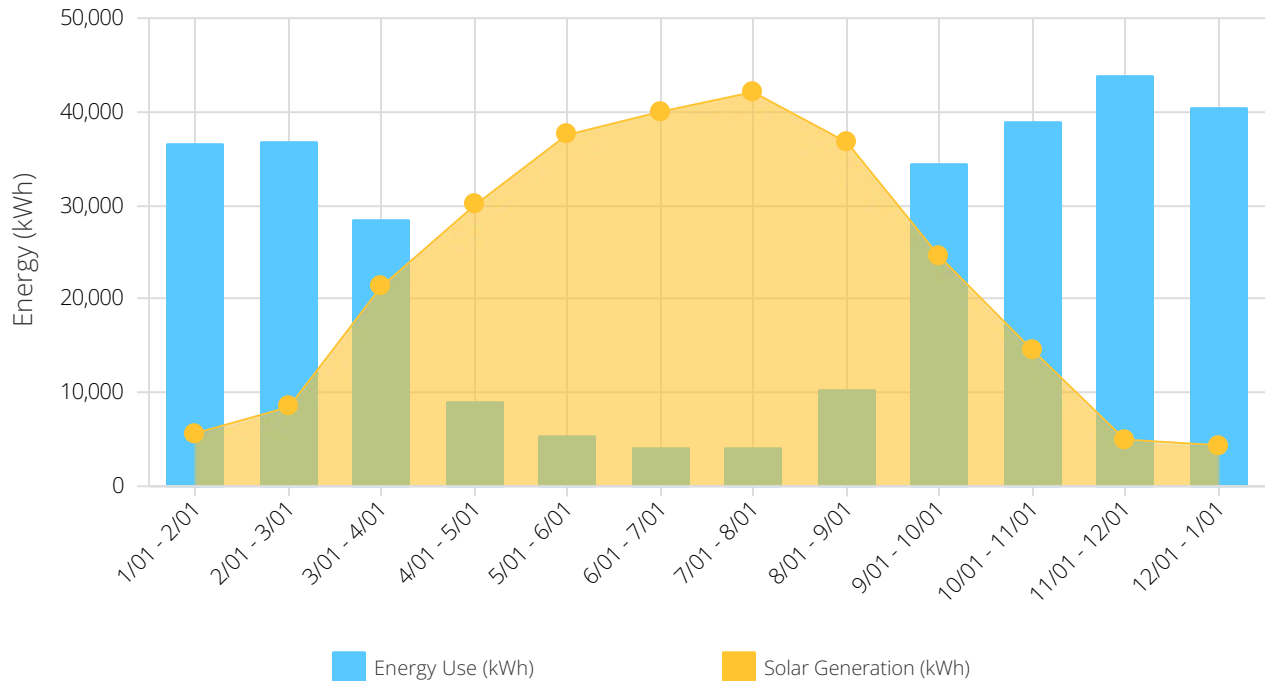
Solar PV System Cost \$513,498

Incentive Amount **-\$154,049**

Net Solar PV System Cost \$359,449



MONTHLY ENERGY USE VS SOLAR GENERATION



4.1.2 REBATES & INCENTIVES

This section summarizes all incentives available for this project. The actual rebate and incentive amounts for this project are shown in each example.

MCCAC-Municipal Electricity Generation Program - 12/12

The MCCAC is offering municipalities in Alberta who install solar PV the following funding opportunity:

10 kilowatts to <150 kilowatts \$0.70/watt or

150 kilowatts to <2 Megawatts \$0.55/watt.

POSSIBLE BONUS - First-Time Applicant Rebate \$0.20/watt

The MCCAC requires that the municipality or applicant warrants that no environmental attributes generated by the project have been claimed, sold or otherwise transferred to a third party and that no other person has any claim to or ownership of the environmental attributes generated by the project.

Total Incentive Value: \$154,049

4.1.3 UTILITY RATES

The table below shows the rates associated with your current utility rate schedule (61 - Copied Claresholm Solar Club). Your estimated electric bills after solar are shown on the following page.

Customer Charges				Energy Charges				Demand Charges			
Season	Charge Type	Rate Type	61 - Copied Claresholm Solar Club	Season	Charge Type	Rate Type	61 - Copied Claresholm Solar Club	Season	Charge Type	Rate Type	61 - Copied Claresholm Solar Club
Q1	Flat Rate	per day	\$1.32	Q1	Flat Rate	Import	\$0.14754	Q1	Flat Rate	Import	\$6.63
Q2	Flat Rate	per day	\$1.32	Q2	Flat Rate	Import	\$0.32228	Q2	Flat Rate	Import	\$6.63
Q3	Flat Rate	per day	\$1.32	Q3	Flat Rate	Import	\$0.31446	Q3	Flat Rate	Import	\$6.63
Q4	Flat Rate	per day	\$1.32	Q4	Flat Rate	Import	\$0.1477	Q4	Flat Rate	Import	\$6.63
								Q1	Flat Rate	Import	\$9.49
								Q2	Flat Rate	Import	\$9.49
								Q3	Flat Rate	Import	\$9.49
								Q4	Flat Rate	Import	\$9.49

4.1.4 CURRENT ELECTRIC BILL

The table below shows your annual electricity costs based on the most current utility rates and your previous 12 months of electrical usage.

RATE SCHEDULE: FA - 61 - Copied Claresholm Solar Club

Time Periods	Energy Use (kWh)	Max Demand (kW)	Charges			
			Other	Energy	Demand	Total
1/1/2024 - 2/1/2024 Q1	36,528	171	\$41	\$5,389	\$2,755	\$8,186
2/1/2024 - 3/1/2024 Q1	36,732	181	\$38	\$5,420	\$2,916	\$8,374
3/1/2024 - 4/1/2024 Q1	28,422	175	\$41	\$4,193	\$2,820	\$7,054
4/1/2024 - 5/1/2024 Q2	8,910	30	\$40	\$2,872	\$1,304	\$4,215
5/1/2024 - 6/1/2024 Q2	5,376	29	\$41	\$1,733	\$1,295	\$3,068
6/1/2024 - 7/1/2024 Q2	4,140	25	\$40	\$1,334	\$1,257	\$2,631
7/1/2024 - 8/1/2024 Q3	3,972	28	\$41	\$1,249	\$1,285	\$2,575
8/1/2024 - 9/1/2024 Q3	10,176	23	\$41	\$3,200	\$1,238	\$4,479
9/1/2024 - 10/1/2024 Q3	34,296	166	\$40	\$10,785	\$2,675	\$13,499
10/1/2024 - 11/1/2024 Q4	38,976	161	\$41	\$5,757	\$2,594	\$8,392
11/1/2023 - 12/1/2023 Q4	43,896	167	\$40	\$6,483	\$2,691	\$9,214
12/1/2023 - 1/1/2024 Q4	40,452	167	\$41	\$5,975	\$2,691	\$8,706
Total	291,876	-	\$483	\$54,389	\$25,521	\$80,392

4.1.5 NEW ELECTRIC BILL

RATE SCHEDULE: FA - 61 - Copied Claresholm Solar Club

Time Periods	Energy Use (kWh)	Max Demand (kW)	Charges			
Bill Ranges & Seasons	Total	NC / Max	Other	Energy	Demand	Total
1/1/2024 - 2/1/2024 Q1	30,883	171	\$41	\$4,435	\$2,755	\$7,232
2/1/2024 - 3/1/2024 Q1	28,271	181	\$38	\$3,864	\$2,916	\$6,818
3/1/2024 - 4/1/2024 Q1	7,139	170	\$41	\$242	\$2,739	\$2,538
4/1/2024 - 5/1/2024 Q2	-21,117	18	\$40	\$6,283	\$1,190	\$5,053
5/1/2024 - 6/1/2024 Q2	-32,147	8	\$41	\$9,626	\$1,096	\$8,490
6/1/2024 - 7/1/2024 Q2	-35,873	7	\$40	\$10,749	\$1,086	\$9,623
7/1/2024 - 8/1/2024 Q3	-38,127	1	\$41	\$11,434	\$1,029	\$10,364
8/1/2024 - 9/1/2024 Q3	-26,544	12	\$41	\$7,910	\$1,133	\$6,736
9/1/2024 - 10/1/2024 Q3	9,709	136	\$40	\$3,168	\$2,310	\$5,517
10/1/2024 - 11/1/2024 Q4	24,486	154	\$41	\$3,088	\$2,481	\$5,610
11/1/2023 - 12/1/2023 Q4	38,915	167	\$40	\$5,673	\$2,691	\$8,403
12/1/2023 - 1/1/2024 Q4	36,076	167	\$41	\$5,229	\$2,691	\$7,960
Total	21,671	-	\$483	\$20,789	\$24,118	\$3,812

ANNUAL ELECTRICITY SAVINGS: \$76,580

Assumptions and Key Financial Metrics

PV Degradation Rate	0.25%	Energy Cost Escalation Rate	3.0%	Federal Income Tax Rate	0.0%
State Income Tax Rate	0.0%	Interest Rate	4.25%	Total Project Cost	\$513,498
Upfront Payment	\$513,498	Loan Term	10 Years		

Years	Upfront	1	2	3	4	5	6	7	8	9	10	11
Cash												
Financing Payments	-\$513,498	-	-	-	-	-	-	-	-	-	-	-
O&M / Equipment Replacement	-	-	-	-	-	-	-	-	-	-	-	-
Electric Bill Savings	-	\$76,580	\$78,681	\$80,838	\$83,054	\$85,330	\$87,668	\$90,069	\$92,536	\$95,069	\$97,672	\$100,345
Incentive Amount	\$154,049	-	-	-	-	-	-	-	-	-	-	-
Cash Total	-\$359,449	\$76,580	\$78,681	\$80,838	\$83,054	\$85,330	\$87,668	\$90,069	\$92,536	\$95,069	\$97,672	\$100,345
Total Cash Flow	-\$359,449	\$76,580	\$78,681	\$80,838	\$83,054	\$85,330	\$87,668	\$90,069	\$92,536	\$95,069	\$97,672	\$100,345
Cumulative Cash Flow	-\$359,449	-\$282,868	-\$204,188	-\$123,350	-\$40,296	\$45,034	\$132,702	\$222,771	\$315,307	\$410,376	\$508,048	\$608,393

Assumptions and Key Financial Metrics

PV Degradation Rate	0.25%	Energy Cost Escalation Rate	3.0%	Federal Income Tax Rate	0.0%
State Income Tax Rate	0.0%	Interest Rate	4.25%	Total Project Cost	\$513,498
Upfront Payment	\$513,498	Loan Term	10 Years		

Years	12	13	14	15	16	17	18	19	20	21	22
Cash											
Financing Payments	-	-	-	-	-	-	-	-	-	-	-
O&M / Equipment Replacement	-	-	-	-	-\$11,400	-	-	-	-	-	-
Electric Bill Savings	\$103,090	\$105,910	\$108,806	\$111,780	\$114,836	\$117,973	\$121,196	\$124,506	\$127,906	\$131,397	\$134,983
Incentive Amount	-	-	-	-	-	-	-	-	-	-	-
Cash Total	\$103,090	\$105,910	\$108,806	\$111,780	\$103,436	\$117,973	\$121,196	\$124,506	\$127,906	\$131,397	\$134,983
Total Cash Flow	\$103,090	\$105,910	\$108,806	\$111,780	\$103,436	\$117,973	\$121,196	\$124,506	\$127,906	\$131,397	\$134,983
Cumulative Cash Flow	\$711,482	\$817,392	\$926,198	\$1,037,978	\$1,141,414	\$1,259,387	\$1,380,583	\$1,505,089	\$1,632,995	\$1,764,392	\$1,899,375

Assumptions and Key Financial Metrics

PV Degradation Rate	0.25%	Energy Cost Escalation Rate	3.0%	Federal Income Tax Rate	0.0%
State Income Tax Rate	0.0%	Interest Rate	4.25%	Total Project Cost	\$513,498
Upfront Payment	\$513,498	Loan Term	10 Years		

Years	23	24	25	26	27	28	29	30	Totals
Cash									
Financing Payments	-	-	-	-	-	-	-	-	-\$513,498
O&M / Equipment Replacement	-	-	-	-	-	-	-	-	-
Electric Bill Savings	\$138,665	\$142,447	\$146,332	\$150,321	\$154,418	\$158,625	\$162,945	\$167,383	\$3,491,359
Incentive Amount	-	-	-	-	-	-	-	-	\$154,049
Cash Total	\$138,665	\$142,447	\$146,332	\$150,321	\$154,418	\$158,625	\$162,945	\$167,383	-
Total Cash Flow	\$138,665	\$142,447	\$146,332	\$150,321	\$154,418	\$158,625	\$162,945	\$167,383	\$3,120,510
Cumulative Cash Flow	\$2,038,040	\$2,180,487	\$2,326,819	\$2,477,140	\$2,631,557	\$2,790,182	\$2,953,128	\$3,120,510	-

6 ENVIRONMENTAL BENEFITS

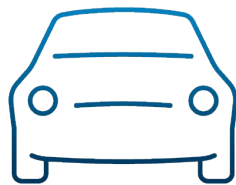


OVER THE NEXT 20 YEARS, YOUR SYSTEM WILL DO MORE THAN JUST SAVE YOU MONEY. ACCORDING TO THE EPA'S GREENHOUSE GAS EQUIVALENCIES CALCULATOR ([SOURCE](#)), YOUR SOLAR PV SYSTEM WILL HAVE THE IMPACT OF REDUCING:



4,234

Ibs of CO₂ Offset



9,624,702

Miles Driven By Cars



63,498

Trees Planted