

COMMERCIAL SOLAR ELECTRIC SYSTEMS

clean, reliable, sustainable electricity

Dovetail Solar and Wind offers a full line of solar & wind energy systems that include professional turn-key installation. All systems are eligible for a 30% Federal investment tax credit and 5 year depreciation.

Sample Solar Electric (photovoltaic) Systems						
Solar PV System	The Office	The Firm	The Shop	The Institution	The Building	The Plant
Size (STC)	12.00 kW	29.25 kW	52.00 kW	78.00 kW	117.00 kW	312.00 kW
Area (Flush/10° tilt)	860ft ² / 1,440ft. ²	2,100ft. ² / 3,500ft. ²	3,700ft. ² / 6,200ft. ²	5,460ft. ² / 9,300ft. ²	8,200ft. ² / 13,900ft. ²	22,000ft. ² / 37,200ft. ²
Estimated Monthly Energy Production						
Monthly Average ①	1,140 kWh	2,779 kWh	4,940 kWh	7,410 kWh	11,115 kWh	29,640 kWh
Modules (USA made)	qty 48 250W	qty 117 250W	qty 208 250W	qty 312 250W	qty 468 250W	qty 1248 250W
Inverter (USA made)	2x SMA 5kW	3x SMA 9kW	Solectria PVI 50KW	Solectria PVI 75KW	Solectria PVI 100KW	Solectria SGI250KW
Typical Total Installed Cost						
Installed Cost ②	\$48,000	\$102,082	\$165,880	\$233,220	\$329,940	\$823,680
Cost per Watt	\$4.00	\$3.49	\$3.19	\$2.99	\$2.82	\$2.64
Financial Incentives & Cost Offsets						
Federal 30% ITC ③	\$14,400	\$30,625	\$49,764	\$69,966	\$98,982	\$247,104
5 yr Depreciation ④	\$16,464	\$35,014	\$56,897	\$79,994	\$113,169	\$282,522
20 Yrs Utility Savings ⑥	\$42,555	\$103,728	\$184,406	\$276,609	\$414,914	\$1,106,437
12 Years SRECs ⑦	\$6,987	\$17,030	\$30,275	\$45,413	\$68,119	\$181,651
20 yr Net Savings ⑧	\$29,961	\$78,355	\$144,866	\$222,868	\$341,403	\$930,456
Environmental Impact ⑨	536,543 lbs CO2	1,307,824 lbs CO2	2,325,021 lbs CO2	3,487,531 lbs CO2	5,231,297 lbs CO2	13,950,125 lbs CO2

See next page for explanatory notes on above information.



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Explanatory Notes

- ① Energy Estimates are typical for Central Ohio at 10° panel angle facing south. Western Ohio energy production can be 4% to 5% higher. Mounting at a different tilt angle will change average energy output.
- ② Installed Prices are list for a typical system including all fees & permits. Tax credits, depreciation and SRECs will reduce net cost. FINANCING AVAILABLE. Estimated prices are for ballasted mounting on a flat roof. Pitched, awning, canopy, pole & ground mounting options with various tilt angles are available. A custom system is always designed to meet your specific project and building needs. Prices may have changed since published. Contact Dovetail for site specific estimate.
- ③ Federal 30% Investment Tax Credit amount available for systems commissioned by 12/31/2016.
- ④ Depreciation is approximate net tax reduction from combined Federal & State total for 5 years assuming 35% Fed tax rate (MACRS).
- ⑥ Cost to purchase equivalent amount of electricity from local utility for 20 years. Uses starting electric rate of \$0.11/kWh (Ohio average commercial rate from P.U.C.O. Jan.-July 2013 Rate Survey), and a 3.5% average annual rate increase.
- ⑦ Assume sell Solar Renewable Energy Credits (SRECs) generated by system at 18.5% of the SREC Compliance values that are specified in Ohio SB221 for 2014 to 2025.
- ⑧ Net Savings (or ROI) is Utility Savings + Federal ITC + Depreciation plus 65% of SREC income (assume 35% tax bracket) less Installed Cost
Net Cost for a non-profit entity would be Utility Savings and SREC income less Installed Cost
Does not include any financing costs. Dovetail can provided a detailed cost and project feasibility analysis report.
- ⑨ Environmental Impact is the pounds of Carbon Dioxide (CO₂) avoided that would have been emitted by a coal fired power plant to produce the same electricity over 25 years



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