

ILLINOIS SHINES

Challenges & Opportunities 2024

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There's a lot of good news

We've trippled Illinois Shines from
~250 MW/year in 2018/19 to 800 MW 2024/25

And the challenges are many...

Interest rates
Complex market
Competition
Supply chain
Interconnection
Net metering
Labor shortages...




ILLINOIS SHINES / ISFA / CEJA

10+ GW of solar installed by 2030

IRA (INFLATION REDUCTION ACT)

ITC up to 60% with adders for energy communities, LMI and domestic content

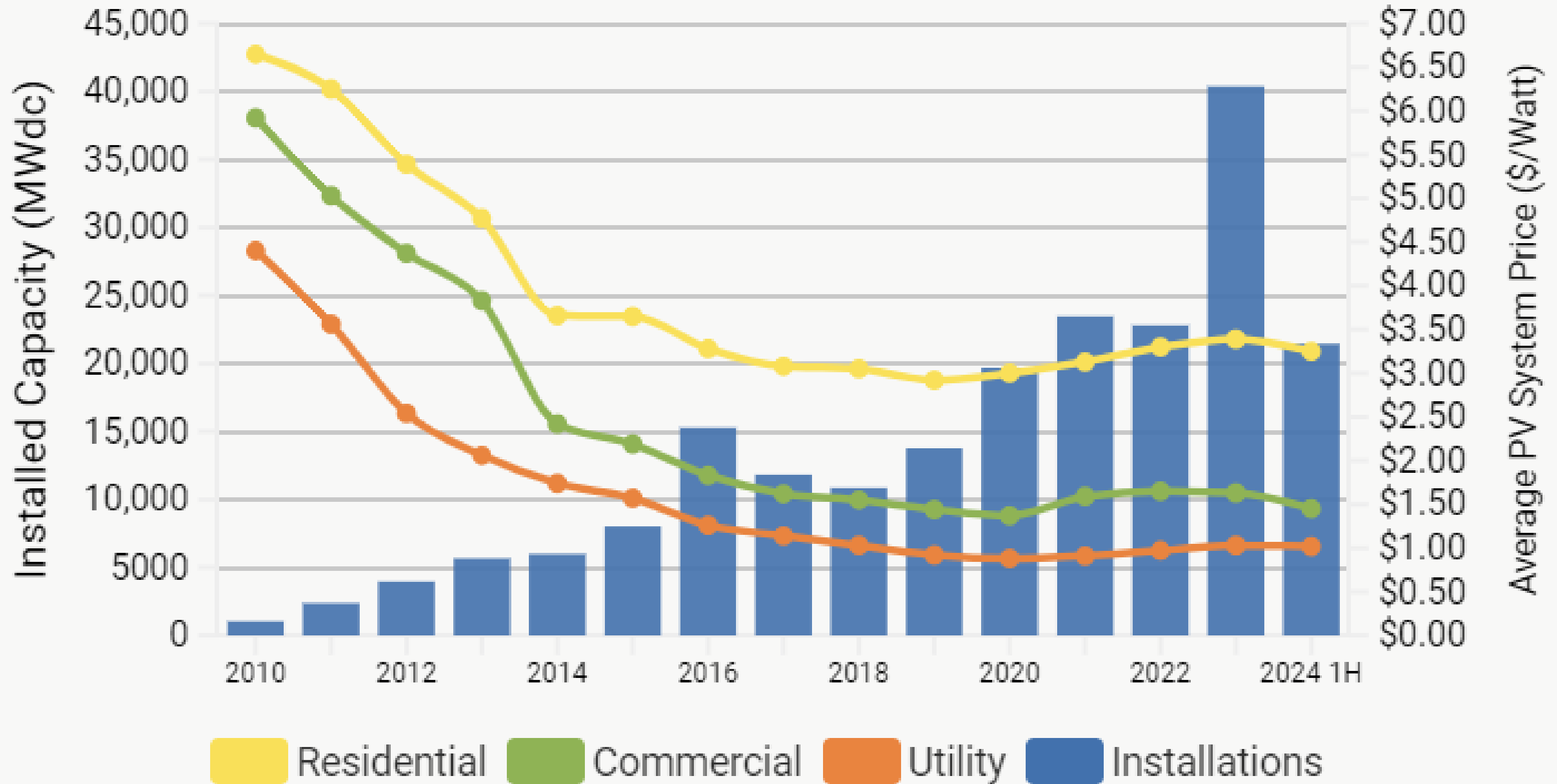
TECHNOLOGY ADOPTION



Solar is the fastest growing source of grid power // now affordable for many and getting more affordable // community solar and 3rd party ownership programs make solar accessible



U.S. Solar PV Pricing Trends & Deployment Growth



Source: SEIA/Wood Mackenzie Power & Renewables U.S. Solar Market Insight Q3 2024



STATE SOLAR *spotlight*

Illinois

Ranks
15th
for total installed
solar capacity

Total solar installed (MW)

3,186.81

712.75 MW In 2023

Growth projection over
the next 5 years (MW)

8,411.27

Ranks 9th



Solar jobs in the state¹

5,975

Ranked 13th In 2023



Enough solar
installed to power

497,177
homes



373

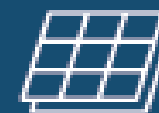
solar companies are
currently operating in
Illinois



76
manufacturers



114
installers/developers



183
other companies

Value of the state solar market

\$5.7
billion

\$1.4 billion Invested In 2023

Percentage of state's
electricity from solar²

2.12%

Price decline over
the last ten years

43%

GENERAL INFORMATION

Facility: Meter #1

SOLAR PV EQUIPMENT DESCRIPTION

Solar Panels: (640) Aptos DNA-144-BF10-550W-59

Inverters: (5) Chint Power Systems America CPS SCA60KTL-DO/US-480

SOLAR PV EQUIPMENT TYPICAL LIFESPAN

Solar Panels: Greater than 30 Years

Inverters: 30 Years

Solar PV System Cost and Incentives

Solar PV System Cost	\$908,160
Federal Tax Credit	-\$272,448
Federal - MACRS Bonus Depreciation	-\$162,107
SMART Inverter Rebate	-\$88,000
SREC Incentive	-\$317,051

Net Solar PV System Cost **\$68,554**

25 Year ROI:
\$1,660,459

SOLAR PV SYSTEM RATING

Power Rating: 352,000 W-DC

Power Rating: 346,720 W-AC-CEC

ENERGY CONSUMPTION MIX

Annual Energy Use: 411,366 kWh



Utility	-61,261 kWh (0.00%)
Solar PV	472,627 kWh (100.00%)



ROCKFORD, ILLINOIS

ROCKFORD UNIVERSITY

MODULES

1,967

SYSTEM SIZE

1,062.18 kW

ANNUAL PRODUCTION

1,191,104 kWh

25 YEAR SAVINGS

\$5,102,000





ROCKFORD, ILLINOIS

OUR SAVIOR'S LUTHERAN CHURCH

MODULES

540

SYSTEM SIZE

259.62 kW

ANNUAL PRODUCTION

285,427 kWh

25 YEAR SAVINGS

\$1,122,500



MARENGO, ILLINOIS

SCHULTZ FARMS

MODULES

180

SYSTEM SIZE

86.4 kW

ANNUAL PRODUCTION

113,611 kWh

25 YEAR SAVINGS

\$145,000





ROCKFORD, ILLINOIS

RESIDENTIAL CUSTOMER

MODULES

63

SYSTEM SIZE

23.31 kW

ANNUAL PRODUCTION

24,099 kWh

25 YEAR SAVINGS

\$86,512



U.S. residential solar down 20% in 2024

A webinar hosted by Roth Capital Partners looked at the health of the residential solar market and forecasts for next year.

JULY 17, 2024 **RYAN KENNEDY**

INSTALLATIONS

MARKETS

MARKETS & POLICY

RESIDENTIAL PV

UNITED STATES



SunPower goes bankrupt

The residential solar installer has filed for bankruptcy, among the largest in a series of major bankruptcies in the industry.

AUGUST 6, 2024 **RYAN KENNEDY**

BANKRUPTCY

BUSINESS

Titan Solar latest in residential solar business closures

An email informed company employees that it ended operations.

JUNE 17, 2024 **RYAN KENNEDY**

BUSINESS

MARKETS & POLICY

UNITED STATES





**The Illinois solar market, like many others in 2024,
faced challenges similar to the broader U.S. solar industry**

High Interest Rates

(ugh)

Regulatory Changes / Net Metering

CEJA is great...and it's complicated

Net Metering to Net Billing...no big deal

but only because we have the Smart Inverter (DG) Rebate

Equity and Market Adjustments



Equity Eligible Contractors

20%

Small DG

17.8%

Large DG

17.8%

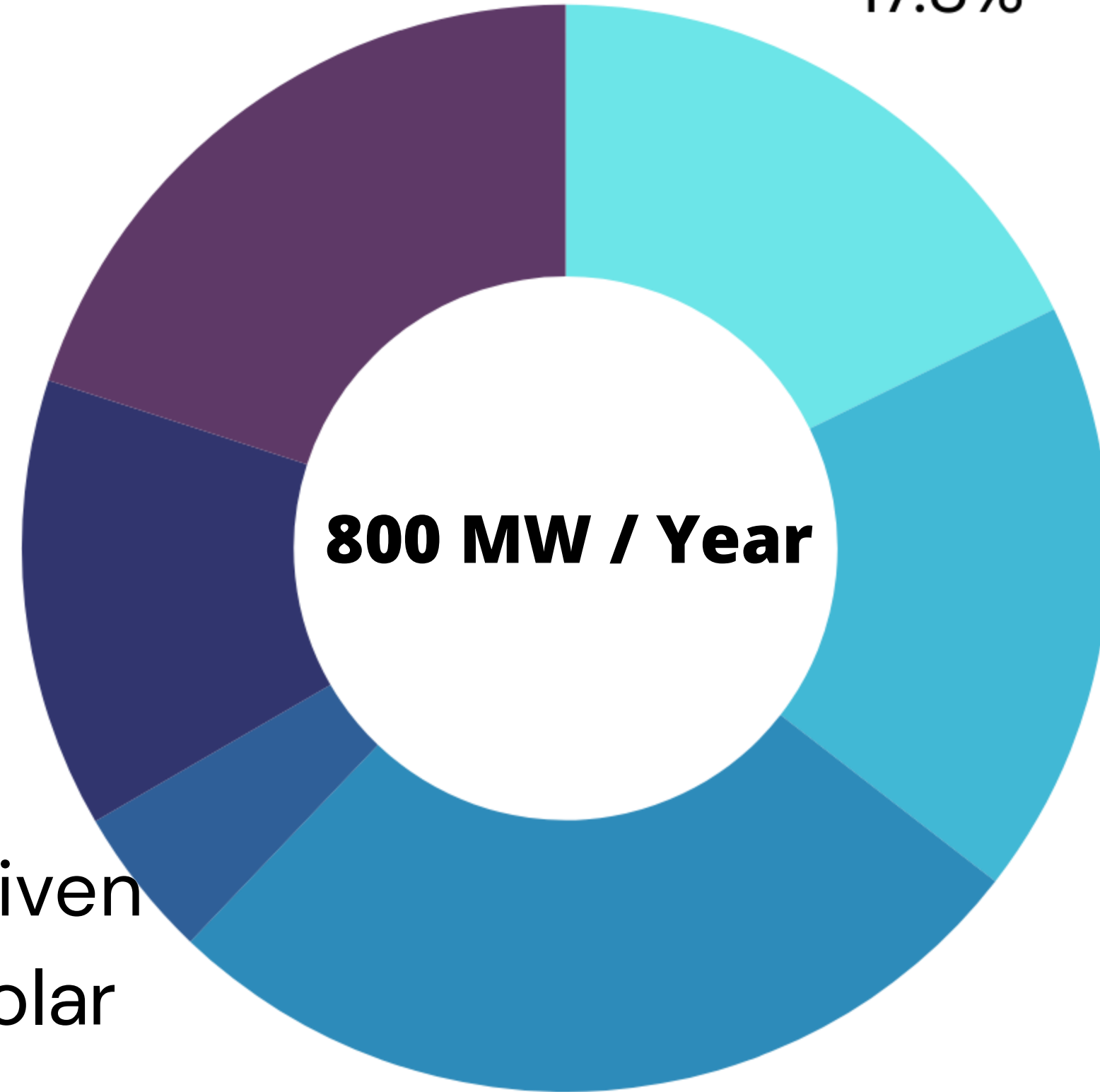
Community Driven
Community Solar

4%

Traditional Community Solar (TCS)

26.6%

800 MW / Year



Capacity allocations for the six categories in the Illinois Shines program for the 2024–25 Program Year:

1. Small Distributed Generation (DG):

18% of total capacity / **142 MW** statewide allocation

2. Large Distributed Generation (DG):

18% of total capacity / **142 MW** statewide allocation

3. Traditional Community Solar (TCS): **213 MW**

27% of total capacity / 64 MW for Group A / 149 MW for Group B

4. Community-Driven Community Solar (CDCS): **36 MW**

4% of total capacity / 11 MW for Group A / 25 MW for Group B

Across these project types, Illinois Shines currently supports six project categories:



**533
MW**

5. Public Schools:

13% of total capacity / **107 MW** statewide allocation

6. Equity Eligible Contractor (EEC):

20% of total capacity / **48 MW** for Group A / 112 MW for Group B

Total annual program capacity is 800 MW: 533 + 267

123 MW for Group A // 286 MW for Group B

391 MW statewide allocation (not divided by group)

Across these project types, Illinois Shines currently supports six project categories:



Application Processing As Of September 30, 2024

Project Category	Application Type	Reviewing Applications Batch Paid/Submitted As of:	Applications in Processing Queue	Applications Currently in Need Info Status
Small DG	Part I	September 03, 2024	14	1,418
Small DG	Part II	August 15, 2024	2,114	972
Large DG	Part I	September 30, 2024	0	93
Large DG	Part II	September 16, 2024	9	47
TCS	Part I	September 23, 2024	1	3
TCS	Part II	September 10, 2024	3	7
CDCS	Part I	August 30, 2023	0	2
CDCS	Part II	September 30, 2024	0	0
EEC	Part I	September 24, 2024	1	9
EEC	Part II	None submitted at this time.	0	0
Public Schools	Part I	September 30, 2024	0	0
Public Schools	Part II	None submitted at this time.	0	4

Some take aways...

Illinois is a fast growing and great market if...

You're sophisticated and can handle complex market

Have great legal council (in-house or not)

Embrace labor and training rules/guidelines

Hungry for change and growth

Resources

ISEA – Illinois Solar & Storage Association

Joint Solar Parties – open house Oct. 9 – ask ISEA

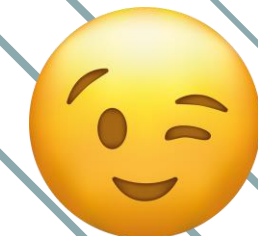
SEIA – Solar Energy Industries Association

Vote Solar

CCSA (Coalition for Community Solar Access)

Your employees and network of colleagues

are your greatest asset



THANK YOU

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