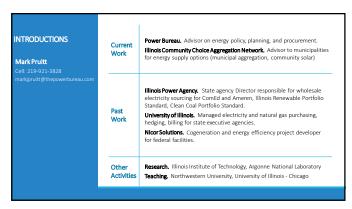
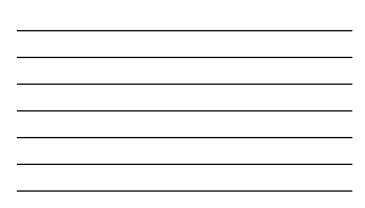


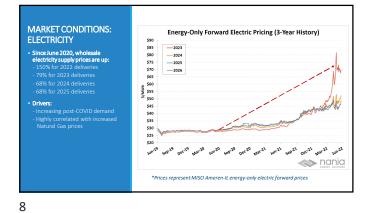
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AGENDA	
INTRODUCTIONS	Members The Power Bureau
MARKET CONDITIONS	• Electricity • Natural Gas
ENERGY OPTIONS	Approaches State-Level Incentives Federal Incentives
DISCUSSSIONS	• Open







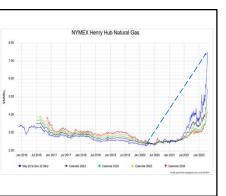




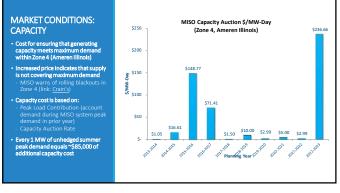




- 90% correlation of natural gas prices to electricity prices
 Natural gas prices up 120% since 2020
- Lagging domestic production
 Increasing post-COVID demand
 International events
 Liquified natural gas exports up
 over 40% year-over-year
 US natural gas prices gow

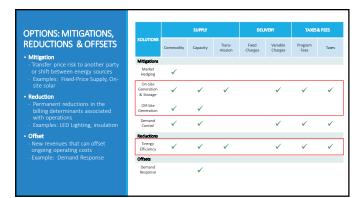














STATE INCENTIVES	COST IMPACT FOR AMEREN ILLINOIS with CEJA					
STATE INCLIMITED	2021 CEJA Cost Centers	2022	2023	2024	2025	2026
	Coal to Solar	\$12,015,000	\$14,040,000	\$14,040,000	\$14,040,000	\$14,040,000
	Credit Card Socialization	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000
 Future Energy Jobs Act (FEJA, 2016); 	Distributed Generation Incentive	\$14,558,565	\$19,740,916	\$25,869,200	\$31,773,803	\$37,454,728
 Nuclear bailout (\$235 million/year 	DG Storage Incentive	\$13,102,709	\$17,766,824	\$22,263,180	\$26,591,776	\$30,752,612
for 10 years)	Energy Assistance	\$159,782	\$319,565	\$479,347	\$479,347	\$479,347
 Increased energy efficiency 	Energy Efficiency Programs	\$8,435,992	\$16,895,404	\$25,118,749	\$32,974,029	\$39,861,479
program costs (\$4.7 billion) over	Electric Integrated Grid Planning	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
20 years	Electric Vehicle Incentives	\$853,551	\$3,755,038	\$5,871,946	\$7,900,000	\$10,000,000
	Beneficial Electrification	\$1,946,338	\$3,877,255	\$5,792,365	\$7,691,274	\$9,573,575
 Climate and Equitable Jobs Act (CEJA, 	Equitable Energy Upgrade Program	\$393,333	\$393,333	\$393,333	\$393,333	\$393,333
2021)	Equity Programs	\$57,011,812	\$58,519,446	\$58,647,215	\$58,647,906	\$58,523,229
 Increased costs for <u>new</u> programs 	ICC Division of Int Dist Planning	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000
(Coal to Solar, EV's, Equity, etc.)	Intervenor Compensation	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000
 Increased cost for <u>existing</u> 	Performance Based Rates	\$0	\$0	\$11,091,397	\$29,724,945	\$49,849,176
programs (Renewable Portfolio	Renewable Portfolio Standard	\$97,248,966	\$98,628,419	\$98,940,462	\$98,695,797	\$97,968,064
Standard, energy efficiency, etc.)	Utility-Scale Pilot Projects (Storage)	\$2,473,368	\$4,865,305	\$4,702,443	\$4,539,581	\$4,376,719
 Fossil-fuel phase out 	TOTAL COST CENTERS	\$216,170,866	\$247,626,505	\$282,034,638	\$322,276,791	\$362,097,263
	Annual Consumption (MWh)	35,084,498	35,582,163	35,694,739	35,606,471	35,343,927
	Average Rate Impact (\$/MWh)	\$6.18	\$6.95	\$7.90	\$9.05	\$10.24

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13

STATE INCENTIVES: ONSITE RENEWABLES

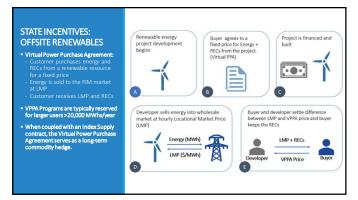
 OLSDIELE RENEWABLES
 Clastoner-Owned:
 Sell Renewable Energy Credits to Ameren Illinois for 20 years
 Receive S250W Smart Inverter Rebate from Ameren Illinois
 Redued Sapply charges due to lower metered consumption
 Assignable Federal IT Co f 30-50% for total project cost Nor total project cost ower Purchase Agreement: Developer sells Renewable Energy Credits with Ameren Illinois and the Smart Inverter Rebate Third party also monetizes Investment Tax Credit, Depreciation and other incentives Third party maintains and services solar arrays

rom Solar Arrays in illin Group A (Ameren Illinois, MidAmerican, Mt. Carmel, Rural Electric Cooperatives, and Municipal Utilities located in MISO) \$68.98 \$57.49 5 Group B (ComEd, and Rural Electric Cooperatives and Municipal Utilities located in PJM) Block Category/Size ≤10 kW >10 - 25 kW >25 - 100 kW >100 - 200 kW >200 - 500 kW \$68.40 Small DG \$59.63 \$51.32 \$48.39 \$57.49 \$49.11 \$49.73 \$44.05 Large DG \$43.01 >500 - 2,000 kW \$42.10 \$38.08 >2,000 kW - 5,000 kW \$27.35 \$19.61

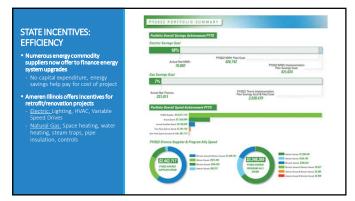
Current Rates for REC Purchases from Solar Arrays in Illinois

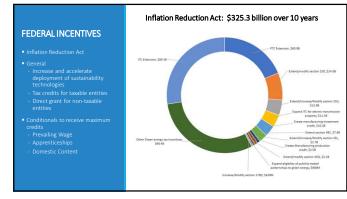
Considerations:

Considerations: REC revenue and Smart Inverter Rebates can reduce the cost of solar installations by 45-55% • \$300/kWh energy storage rebate under development • Natural Gas generation >25MW in nameplate (even cogeneration) must be emissions free by 2035



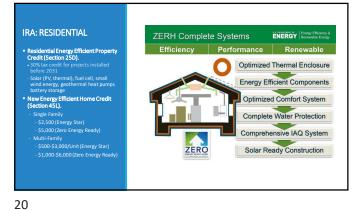






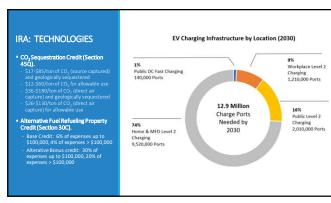
	Inflation Reduction Act: \$325.3 billion over 10 years
IRA: STRUCTURE	Section 48 ITC,
Tax Credits	 Section 45 PTC,
- Refer to section of the Tax Code	 Section 45Q credit for carbon capture and sequestration,
 IRS is required to publish rules Plenty of time to think through 	 Section 30C alternative fuel vehicle refueling property credit,
how all of this will work	 Section 48C advanced energy project credit
	 Section 48D investment credit for transmission property,
	 Section 48E zero emissions facility credit,
	 Section 45W zero-emission nuclear power production credit, and
	 Section 45X clean hydrogen production credit,
	 Section 45BB clean electricity production credit,
	 Section 48F clean electricity investment credit,
	 Section 45CC clean fuel production credit.

	Inflation Reduction Act: \$325.3 billion over 10 years
IRA: RENEWABLES	Section 48 ITC,
Production Tax Credit (PTC). Tax	 Section 45 PTC,
credit (\$0.005-0.025/kWh) for all new renewable generation	 Section 45Q credit for carbon capture and sequestration,
beginning construction pre-2026	 Section 30C alternative fuel vehicle refueling property credit,
 Biomass, landfill gas, municipal solid waste, hydro, geothermal 	 Section 48C advanced energy project credit
 Investment Tax Credit (ITC). Tax 	 Section 48D investment credit for transmission property,
Credit equal to 6-30% of capital cost of a new renewable energy resource	 Section 48E zero emissions facility credit,
beginning construction pre-2026	 Section 45W zero-emission nuclear power production credit, and
 Biomass, landfill gas, municipal solid waste, hydro, geothermal, energy 	 Section 45X clean hydrogen production credit,
storage, interconnection, microgrid controllers, linear generators	 Section 45BB clean electricity production credit,
	 Section 48F clean electricity investment credit,
	 Section 45CC clean fuel production credit.











	PROVISION	NEW FRO SECTION 1780 EFFECTIVE FROM JAN. 1. 2020	PREVIOUS IRC SECTION 1780 EFFECTIVE FROM JAN. 1,2008-DEC.31, 2022	
IRA: EFFICIENCY • Energy Efficient Commercial Buildings (Section 1790). • Sandard Creation (Section 1790). • Sandard Cr	Eighility	Commercial building owners Designers of building owners or loss of the set	Commercial building owners Designers of buildings owned by government entities	
	Tax deduction range	Base deduction: Sliding scale of 50 cents/lucft for energy savings of 25% and up to 8 blight for energy savings of 50% or greater Bonus deduction: Sliding scale of \$2.50/sqft for energy savings of 25% and up to \$5/sqft for energy savings of 50% or greater	63 cents/sqft - \$1.88/sqft per eligible system	
 Incremental incentive \$0.02/Square Foot for each 1% improvement over the 25% baseline Not to exceed \$1/Square foot 	Deduction cap	A three-year cap that allows IRC Section 170D to be claimed on buildings if the previous full deduction claim occurred more than three taxable years ago	Since 2006, there's been a lifetime cap of \$1.90/with or \$1.68/with inflation adjustment	
- Bonus Credits available	Technical requirements	ASHRAE standard in effect from four years prior to completion of construction	ASHRAE standard in effect from two years prior to start of construction	
	Bonus deduction	Meet local prevailing wage Meet apprenticeship percentage hours for up to 15% of labor hours	Not applicable	



23

Conclusions

Market Risks Remain High

- Rates for electricity have increased some 100% in the past yearCompressed operating budgets: "Do more with less!"
- Increased delivery charges and fees

Several Approaches to Reducing Costs

- Mitigate, reduce, offsetRequire some skill and effort

Conclusions

Incentives Appear Plentiful

• Federal and state incentives can be combined to significantly reduce project costs

• There are conditions

- All of these incentives are paid for by consumers
 Why not capture as much as you can to protect your interests and the interests of you community?

25

THANK YOU

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