# Are you talking about the Inflation Reduction Act? You should be!

October 12, 2023

#### **Your Presenters:**



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**Director of Business Development, Client Leader at BHDP Architecture** Cincinnati, OH



#### Ryan Hoffman, PE, LEED AP BD+C, CEM

**Principal, Director at HEAPY** Dayton, OH



#### Seth Parker

**CEO at Melink Solar** Cincinnati, OH



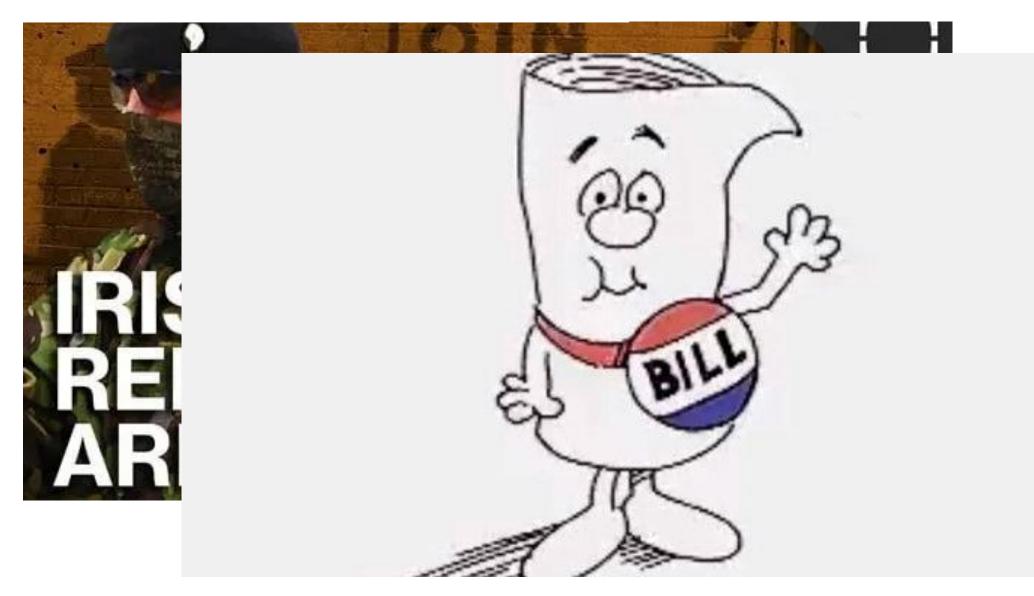
### Agenda:

- 1. What is it?
- 2. How much?
- 3. Prove it to me!
- 4. Teach me how!





#### What is the BIL?



# **"The single most important piece of legislation to our industry in a lifetime."**



### What is it?

#### Bipartisan Infrastructure Law (BIL)

Provides \$1.2 trillion in federal investment to improve the nation's infrastructure, from transportation systems and power grids to broadband and other public works. Roughly half of the funding—<u>\$550</u> billion in new spending—will flow into state and local governments over the coming years.

#### Inflation Reduction Act (IRA)

Directs <u>new federal spending of \$390 billing</u> toward reducing carbon emissions, lowering healthcare costs, funding the Internal Revenue Service, and improving taxpayer compliance



### What is it?

# Inflation Reduction Act Technologies

The Inflation Reduction Act provides tax incentives for technologies across energy industry:

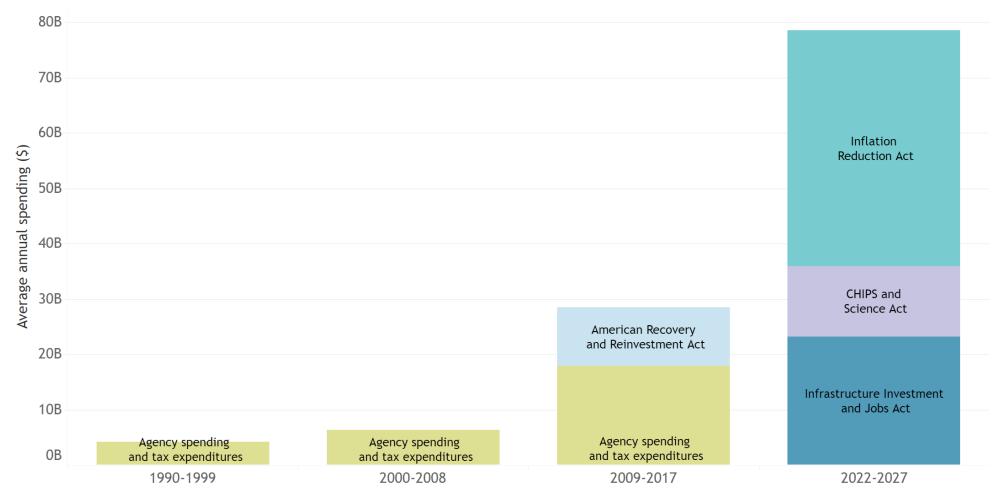
- <u>Solar Energy</u>
- Wind Energy
- Geothermal Energy
- Ground Source Heat Pumps
- Fuel Cells
- Microturbines
- <u>Combined Heat and Power</u>
- Energy Storage

- Biogas
- Waste to Energy
- Dynamic Glass
- <u>Microgrid Technology</u>
- <u>Electric Vehicles</u>
- <u>Electric Vehicle Charging</u>
  <u>Infrastructure</u>
- Carbon Sequestration

- Advanced Manufacturing
- Clean Hydrogen
- Zero Emission Nuclear
- Sustainable Aviation Fuel
- Biodiesel renewable fuel
- Energy Efficiency
- Energy Efficient Homes



Over the next decade, spending on climate will more than triple historic levels





The Inflation Reduction Act makes investments across a wide range of sectors.

Inflation Reduction Act investments by sector, \$ billion

Total = 393.7

Energy 250.6			
Manufacturing 47.7		Environment <b>46.4</b>	
Transportation and electric vehicles 23.4	2	Agriculture 2 <b>0.9</b>	Water <b>4.7</b>

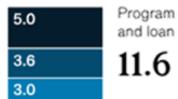


Loan authority 367

Energy Infrastructure Reinvestment loan authority 250

Innovative Clean Energy Ioan authority 62

Advanced Technology Vehicle Manufacturing loan authority 55



Program operations and loan subsidy cost



#### Energy and climate change funding in the Inflation Reduction Act, \$ billion

13

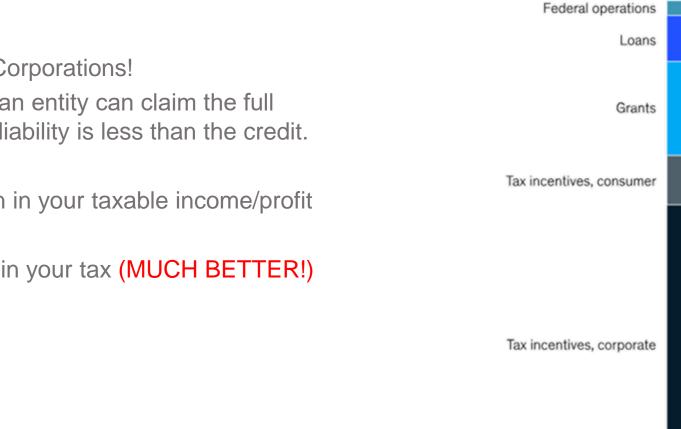
40

82

43

216

394 Total



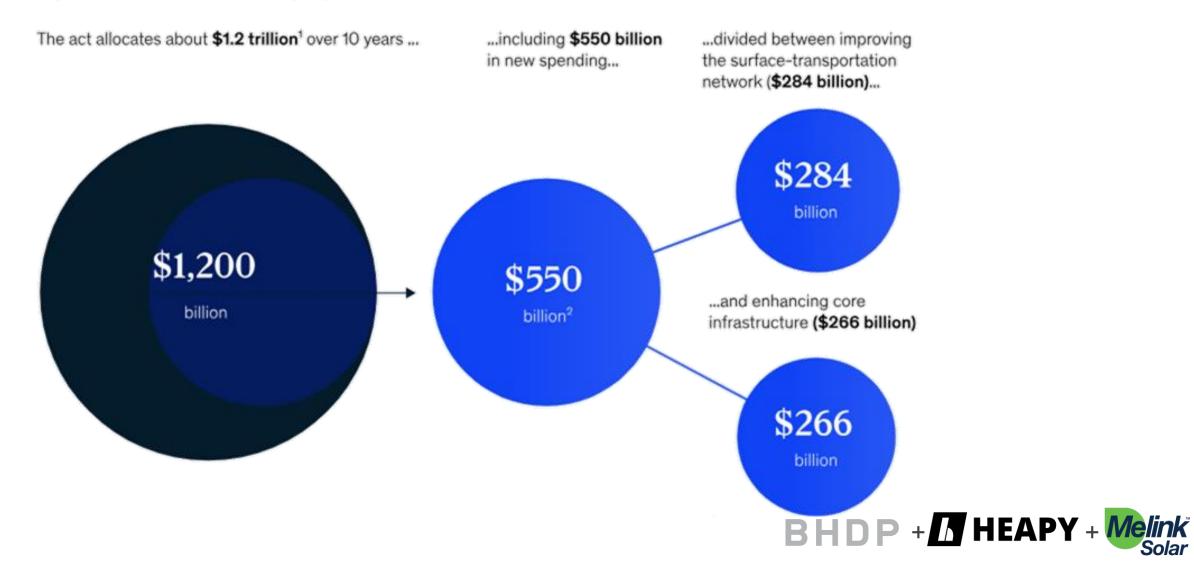


\$216B Tax Credit for Corporations! Direct Pay...meaning an entity can claim the full amount even if its tax liability is less than the credit.

Tax Deduct: Reduction in your taxable income/profit

Tax Credit: Reduction in your tax (MUCH BETTER!)

#### **Bipartisan Infrastructure Law (BIL) investments**

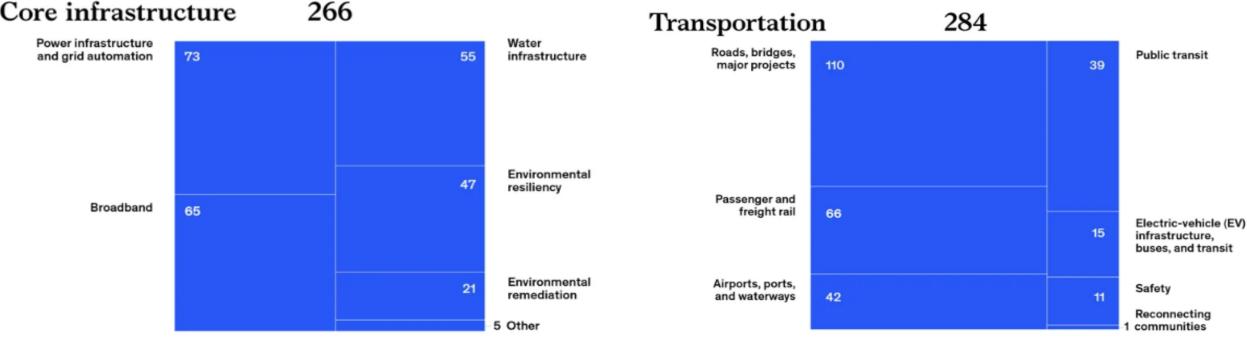


The BIL will commit \$266B in new spending on core infrastructure: Power, water, broadband, and the environment.

The BIL will commit \$284B in new spending for transportation.

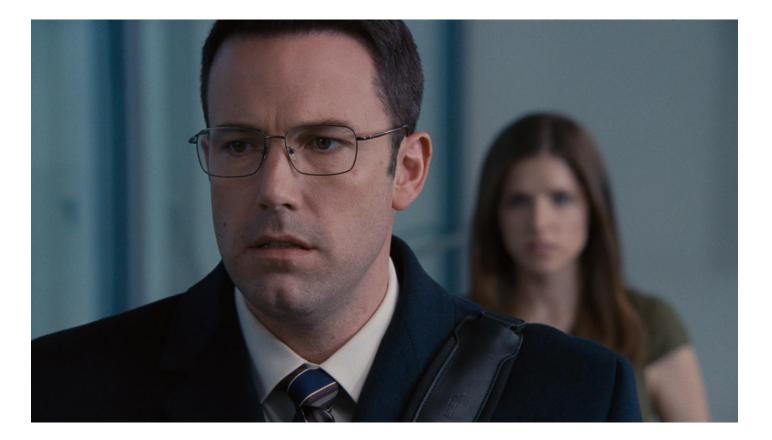
BHDP + HEAPY + Melink

Solar



#### Core infrastructure

# Disclaimer

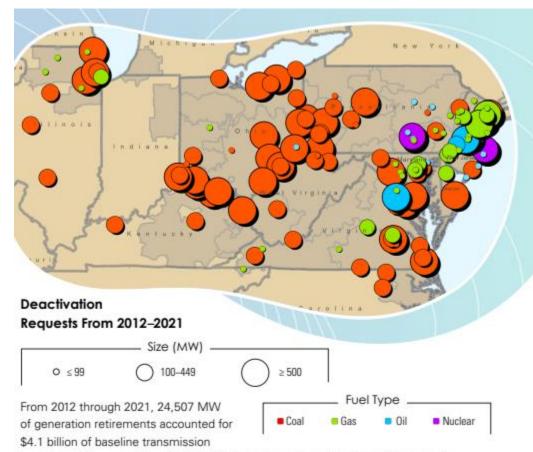


#### • I am not your accountant...

- Tax law is constantly changing.
- Within Inflation Reduction Act, further clarifications are expected to be released in the coming months by the Department of Treasury

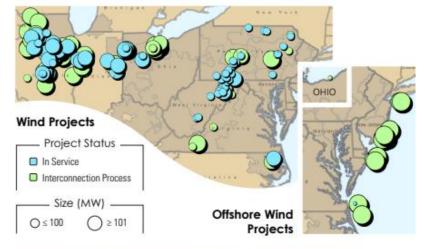


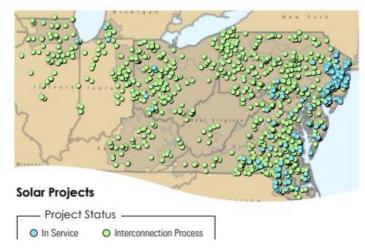
### **Prove it to Me!** GRID OF THE FUTURE – DECARBONIZATION IN PJM



investment. The remaining 16,702 MW that retired during this time did not require system enhancements to maintain grid reliability.

#### **Generation Trends**





### **Prove it to Me!** THEN AND NOW: GEOTHERMAL



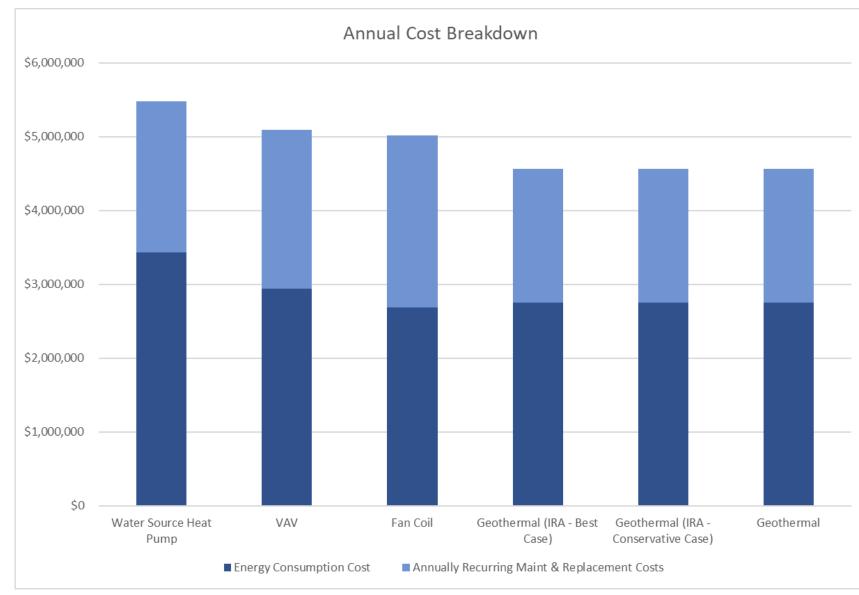


### SAMPLE GEOTHERMAL ANALYSIS

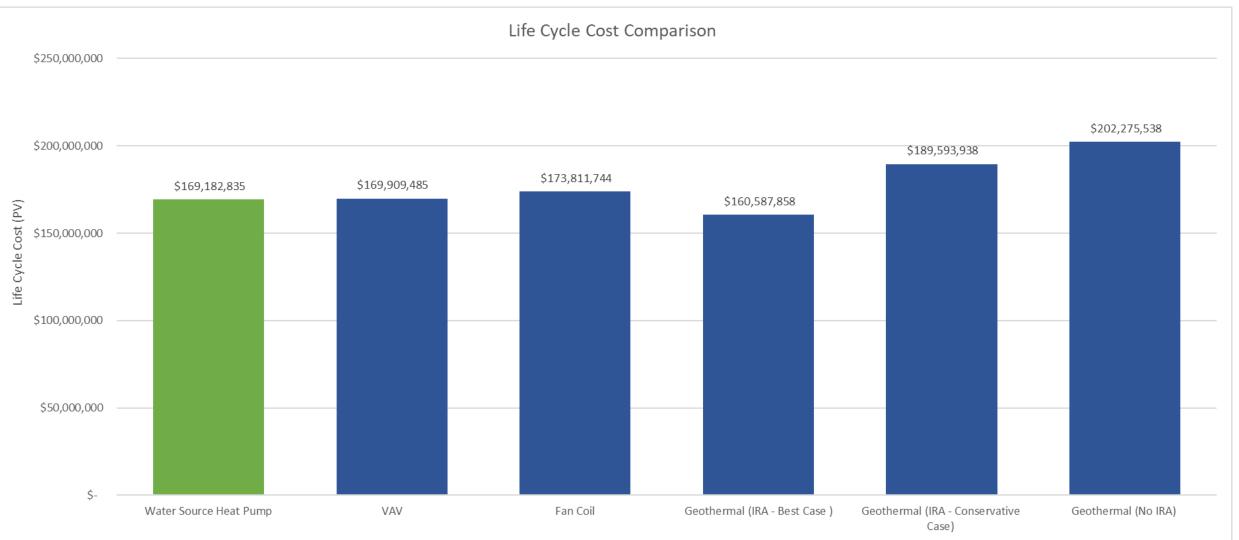
- Central condenser water pumping system
- Chiller and Boiler plant eliminated with a fully geothermal system
- Water source heat pumps throughout
- Non-HVAC systems could be tied into condenser water system
- Possible heat recovery chiller to provide hot water for hydronic heating
- Possible cooling towers and boilers to reduce overall wellfield size
- Large closed-loop geothermal wellfield: 2,500 wells, 500 ft deep



Life-Cycle Cost Analysis

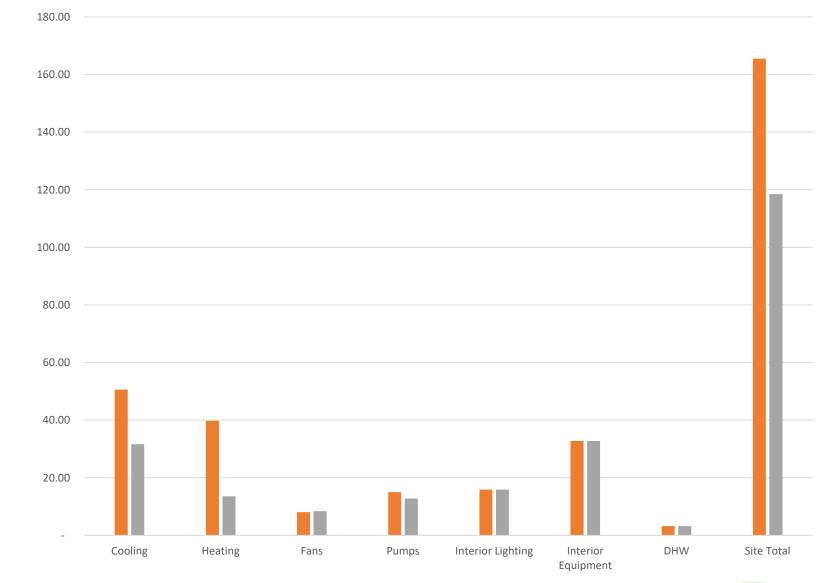




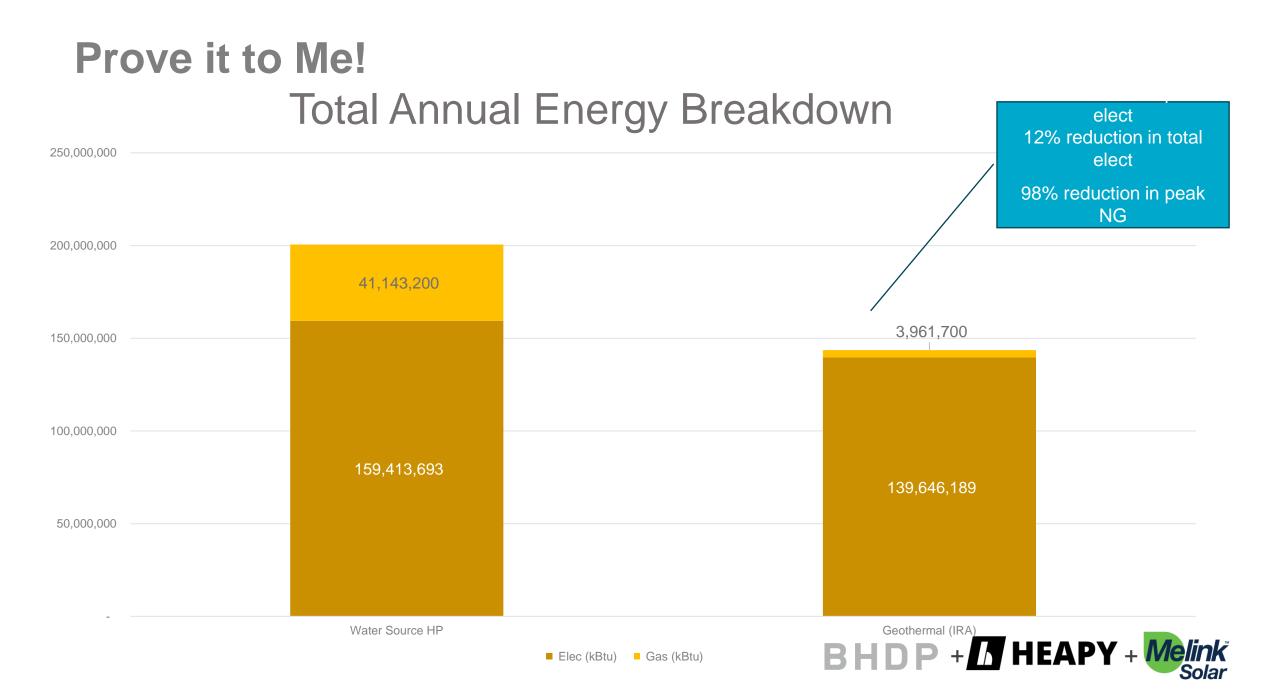


Alternatives

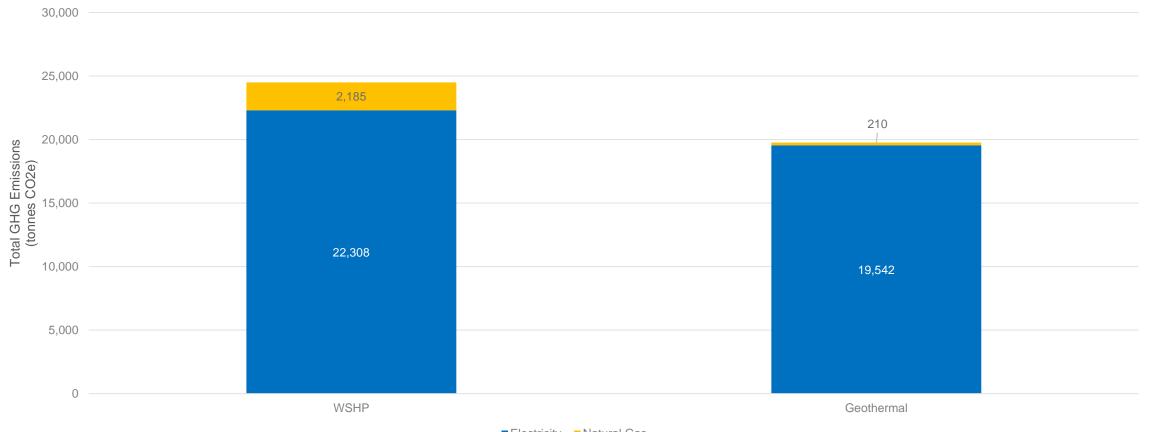
EUI, Water Source Heatpumps vs. Geothermal







### **Prove it to Me!** Annual Greenhouse Gas Emissions







### **Prove it to Me!** First Cost Business Case Projection w/ Incentives



■ Initial Costs ■ IRA Direct Pay ■ Grant



### 40 Year Cost Breakdown: GEO vs WSHP w/ Incentives

40 Year Cost Breakdown



Solar

#### Sample Solar Customer: Introduction



#### About the customer

Building sq:45,000 sq/ftLocation:Mason OhioCompany type:Manufacturing/Private

**Customer motivation(s) / situation:** The company seeks to...

Hedge against rising electricity cost Branding/Employee attraction Sustainability/Right thing to do

Resulting in... Energy Savings HR+PR Benefits Increased Revenue



Sample Solar Customer: System Details



About the proposed system

Annual Consumption: 413,616 kWh

#### **Roof mounted System:**

Solar PV Year One:	358,879 kWh
Solar PV Offset:	86%

# of Panels: Project Duration:

600 4 Months

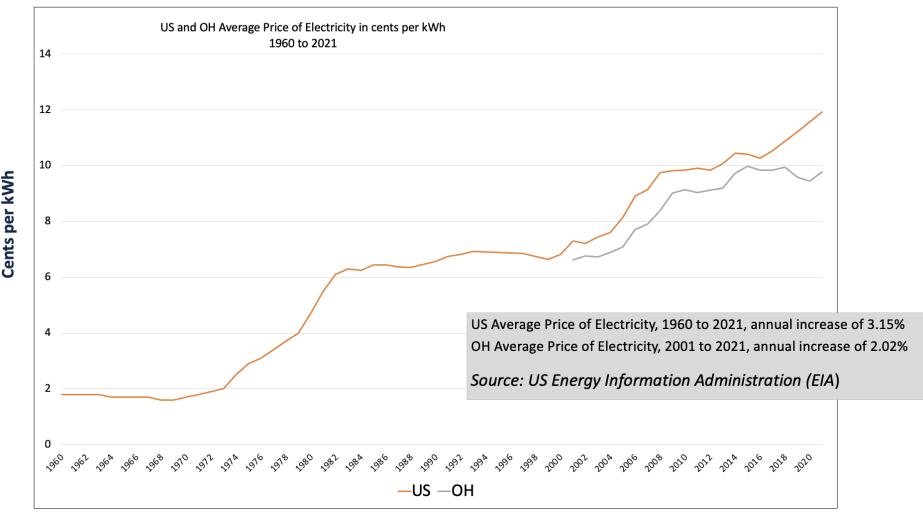






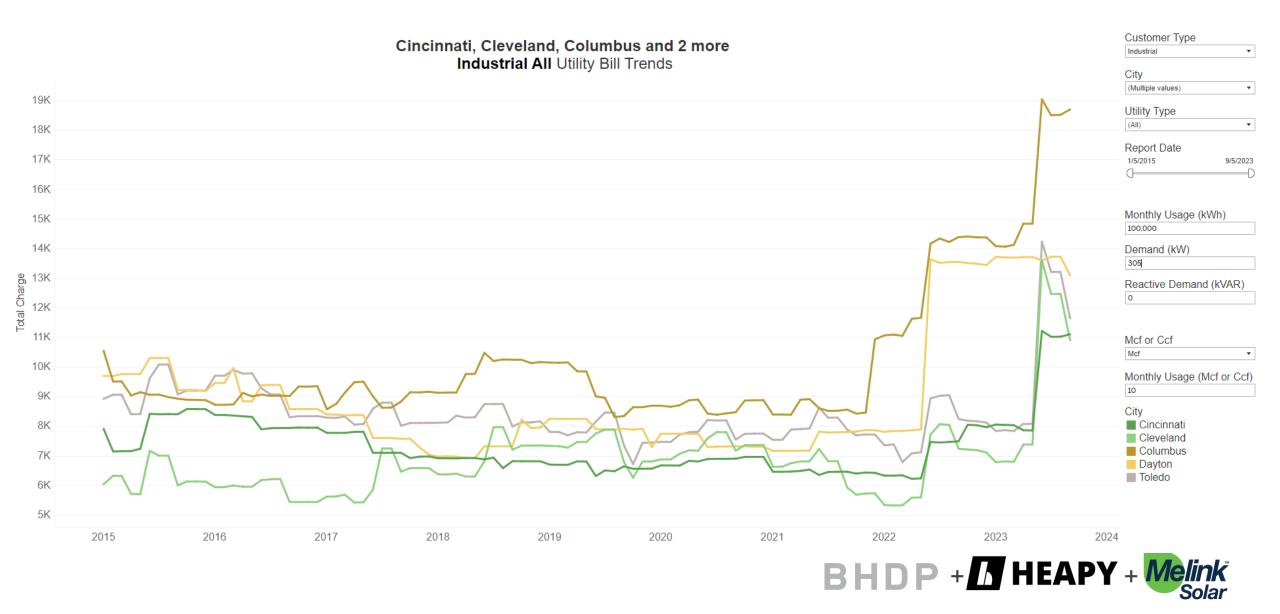
#### **Increasing Electricity Price Trends**

National average increase of 3.15% PER YEAR between 1960 and 2021





#### Teach Me How! Recent Pricing: Skyrocketing Rates





#### **Utility Rate Structures**

Typical Utility Rate Structures include 3 major elements:

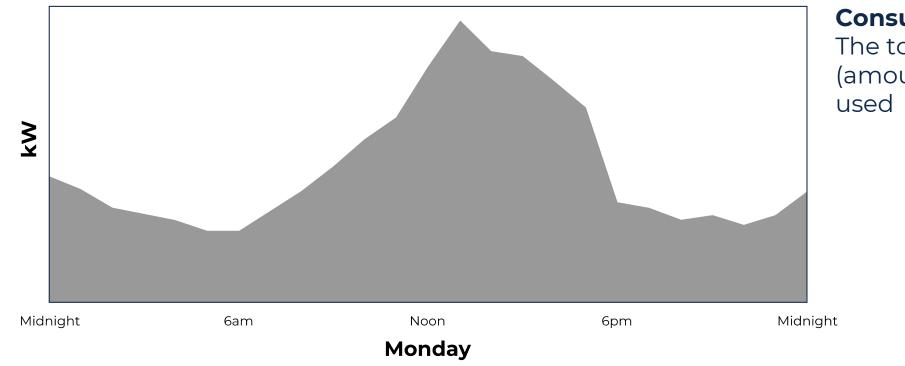
- Fixed Charges- The cost to have service, which is independent of usage.
- **Consumption Costs (\$/kWh)** the costs of the total energy consumed for the period.
- Demand Costs (\$/kW) the cost of the rate of energy delivered for the period. Customers are typically billed at their "peak demand", meaning the highest rate of energy delivered for 15 continuous minutes in a month.





### **Utility Rate Structure**

A look into your utility bill

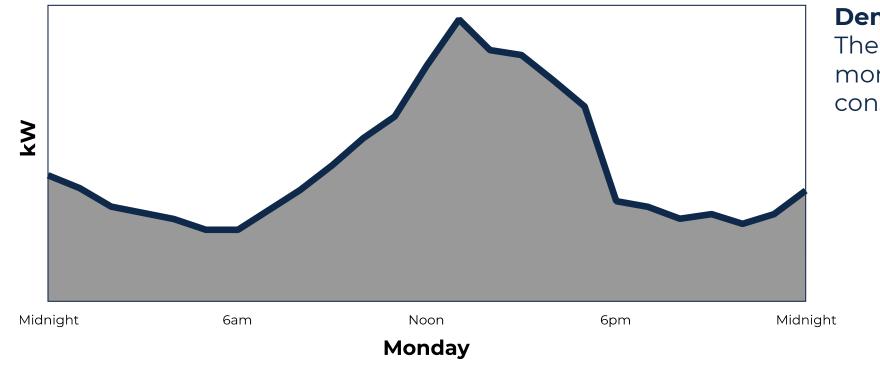


#### **Consumption** The total volume (amount) of energy used



### Utility Rate Structure

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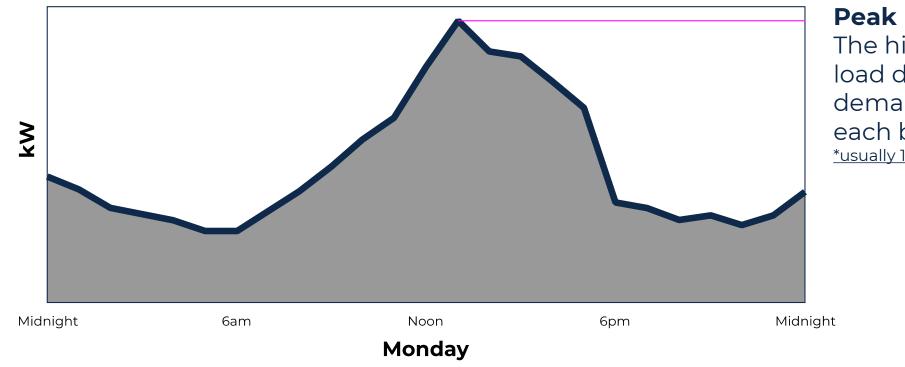


#### **Demand** The highest momentary rate of consumption



### **Utility Rate Structure**

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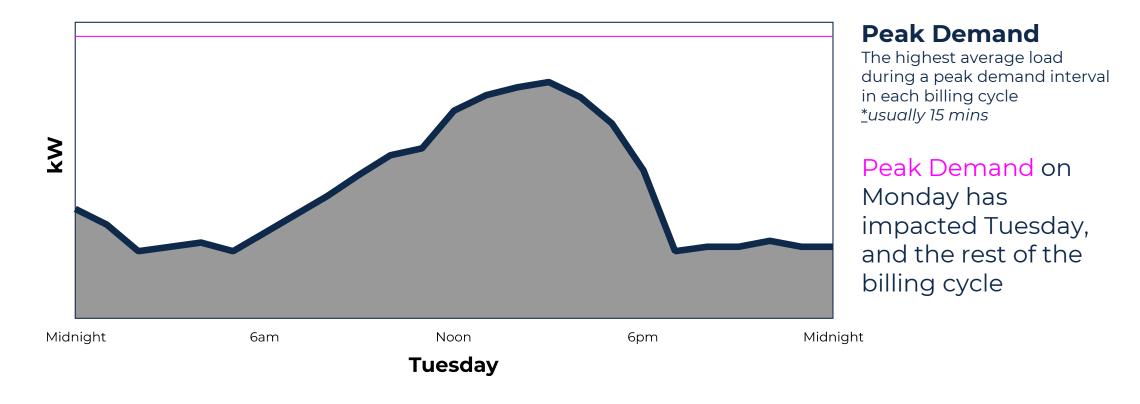
#### Peak Demand

The highest average load during a peak demand interval in each billing cycle <u>\*usually 15 mins</u>



### Utility Rate Structure

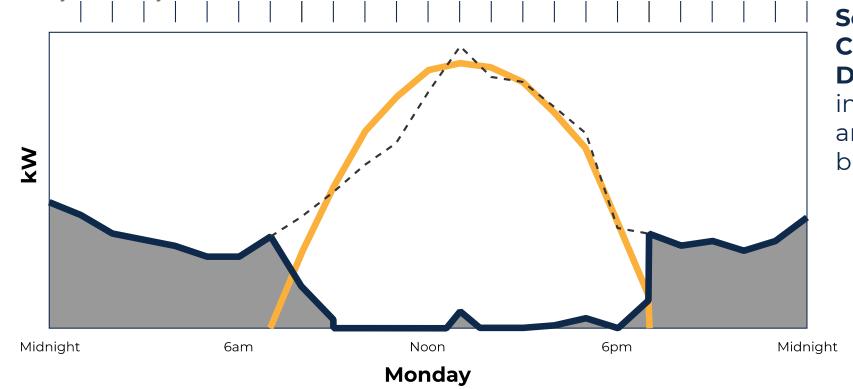
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### **Utility Rate Structure**

A look into your utility bill



#### Solar Impact on Consumption & Demand

impacted Tuesday, and the rest of the billing cycle



## EXAMPLE SYSTEM SAVINGS & ROI



#### System Savings (Consumption & Demand)

Time Periods	Energy Use (kWh)	Max Demand (kW)		CI	narges	
Bill Ranges & Seasons	Total	NC / Max	Other	Energy	Demand	Total
1/1/2023 - 2/1/2023 S1	34,900	207	\$49	\$2,641	\$2,118	\$4,808
2/1/2023 - 3/1/2023 S1	34,000	207	\$49	\$2,573	\$2,118	\$4,740
3/1/2023 - 4/1/2023 S1	32,000	207	\$49	\$2,422	\$2,118	\$4,589
4/1/2023 - 5/1/2023 S1	40,000	207	\$49	\$3,026	\$2,118	\$5,193
5/1/2023 - 6/1/2023 S1	29,000	207	\$49	\$2,196	\$2,118	\$4,363
6/1/2022 - 7/1/2022 S1	38,000	207	\$49	\$2,875	\$2,118	\$5,042
7/1/2022 - 8/1/2022 S1	39,000	207	\$49	\$2,950	\$2,118	\$5,117
8/1/2022 - 9/1/2022 S1	40,000	207	\$49	\$3,026	\$2,118	\$5,193
9/1/2022 - 10/1/2022 S1	33,900	207	\$49	\$2,566	\$2,118	\$4,733
10/1/2022 - 11/1/2022 S1	31,800	207	\$49	\$2,407	\$2,118	\$4,574
11/1/2022 - 12/1/2022 S1	29,800	207	\$49	\$2,257	\$2,118	\$4,423
12/1/2022 - 1/1/2023 S1	31,216	207	\$49	\$2,363	\$2,118	\$4,53
Total	413,616	-	\$588	\$31,303	\$25,414	\$57,30

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CURRENT ELECTRIC BILL

Time Periods	Energy Use (kWh)	Max Demand (kW)	Charges								
Bill Ranges & Seasons Total		NC / Max	Other	Energy	Demand	Total					
1/1/2023 - 2/1/2023 S1	20,925	198	\$49	\$1,587	\$2,026	\$3,662					
2/1/2023 - 3/1/2023 S1	15,692	195	\$49	\$1,193	\$1,995	\$3,237					
3/1/2023 - 4/1/2023 S1	3,729	173	\$49	\$284	\$1,770	\$2,103					
4/1/2023 - 5/1/2023 S1	3,269	165	\$49	\$249	\$1,688	\$1,986					
5/1/2023 - 6/1/2023 S1	-12,390	167	\$49	\$942	\$1,709	\$815					
6/1/2022 - 7/1/2022 S1	-6,435	168	\$49	\$490	\$1,719	\$1,278					
7/1/2022 - 8/1/2022 S1	-5,652	144	\$49	\$430	\$1,551	\$1,169					
8/1/2022 - 9/1/2022 S1	-1,736	175	\$49	\$133	\$1,790	\$1,707					
9/1/2022 - 10/1/2022 S1	504	178	\$49	\$39	\$1,821	\$1,909					
10/1/2022 - 11/1/2022 S1	5,848	186	\$49	\$445	\$1,903	\$2,397					
11/1/2022 - 12/1/2022 S1	12,941	189	\$49	\$984	\$1,934	\$2,967					
12/1/2022 - 1/1/2023 S1	18,043	197	\$49	\$1,370	\$2,016	\$3,434					
Total	54,738	-	\$588	\$4,156	\$21,921	\$26,665					

- - -

Savings -87% -14% -53%

B

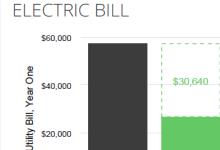
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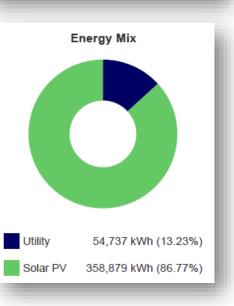
Grid Only

Utility Bill

Solar

Bill Savings

\$0



#### System Savings (IRA & Tax Depreciation)

#### Investment Tax Credit (ITC) = 30% of System Value

- \$180,350
  The Inflation Reduction Act (IRA) of 2022 establishes and extends the federal Investment Tax Credit (ITC) for solar photovoltaic (PV) systems at a rate of 30% of the total PV system cost.
- Unlike tax deductions, this tax credit can be used to directly offset your tax liability.
- The IRA extended the carryback period to 3 years, and the carryforward period to 22 years, in cases where the tax credit exceeds a customer's tax liability in the 'placed-in-service' year.
- For PV projects greater than 1 MW AC in size, the IRA established prevailing wage and apprenticeship requirements in order to qualify for the full 30% "increased rate", rather than a "base rate" which would only qualify for a 6% ITC. Projects with an output of less than 1 megawatt qualify for the "increased rate" irrespective of if prevailing wage or apprenticeship requirements are met.



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#### Federal MACRS, Bonus Depreciation Value

#### = \$189,066

Under the federal Modified Cost Recovery System (MACRS), businesses may recover investments in solar PV property through depreciation deductions over a 5-year established lifespan.

- For PV systems, the taxable basis of the equipment must be reduced by 50% of any federal tax credits associated with the system.
- Projects placed in service in 2023 qualify for 80% bonus depreciation, which means in the first year of service, companies can elect to depreciate 80% of the basis while the remaining 20% is depreciated under the normal MACRS schedule.



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#### State (OH) Modified Accelerated Value

#### = \$30,058

Under the Modified Cost Recovery System (MACRS), businesses may recover investments in certain property through depreciation deductions. The MACRS establishes a set of class lives for various types of property over which the property may be depreciated.



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#### System Price

#### Solar PV System Cost and Incentives

Net Solar PV System Cost	\$201,691	34%
State (OH) Depreciation	(\$30,058)	-5%
Federal - MACRS Bonus Depreciation	(\$189,066)	-31%
Federal Tax Credit	(\$180,350)	-30%
Solar PV System Cost	\$601,165	



#### Return on Investment & Payback

\$354,313

186%

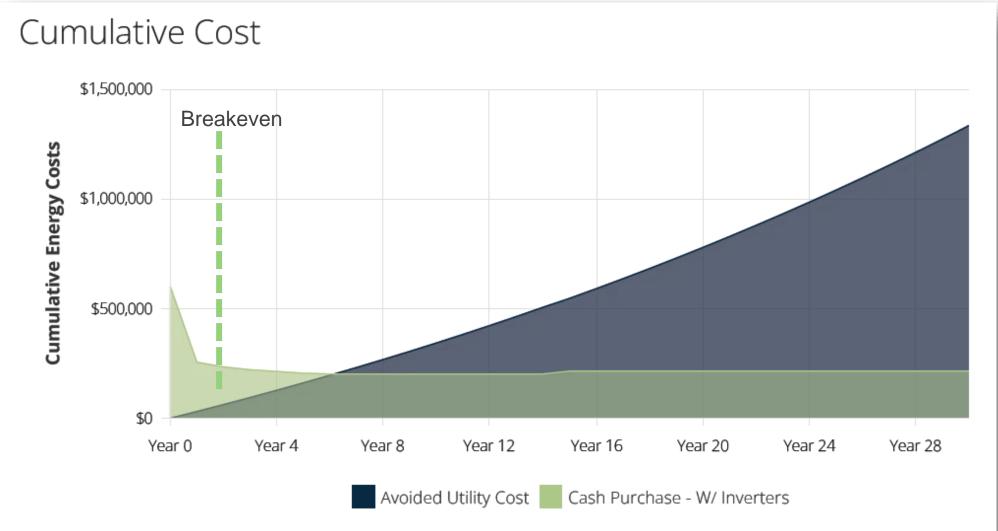
13.6%

Total Project Costs	\$601,165	Net Present Value (@ 5.50%)
Lifetime Electric Bill Savings	\$1,336,106	ROI
Payback Period	6.2 Years	Internal Rate of Return

[	Proje	ct Costs / Bill S	avin	igs	Reduction to Tax Liability			l							
						•	OH Income		ED Income						
Years	Project Costs	New Inverters	;  E	lecrtic Bill	PV Generation		Decrease		Decrease	F	ederal Tax	Ar	nnual Cash	-	umulative
	,			Savings	(kWh)		(Tax	•	1ACRS Tax		Credit		Flow	C	ash Flow
							epreciation)		epreciation)						
Upfront	· · · · · · · · · · · · · · · · · · ·		\$	-	-	\$		\$	-	\$	-	\$	(601,165)		(601,165)
	\$ -	\$-	\$	30,640	358,878	\$	6,012	\$		\$	180,350	\$	375,818		(225,347)
2		\$ -	\$	31,402	357,083	\$		\$	12,100		-	\$	53,121		(172,226)
3		\$-	\$	32,181	355,289	\$	•	\$	7,260		-	\$	45,212		(127,014)
4		\$-	\$	32,979	353,495	\$		\$	4,356		-	\$	40,798		(86,216)
5		\$-	\$	33,796	351,700		.,		4,356		-	\$	41,615		(44,601)
6		\$-	\$	34,632	349,906	\$		\$	2,178	\$	-	\$	38,541		(6,060)
7		\$ -	\$	35,488	348,111			\$	-	\$	-	\$	35,488		29,428
8		\$ -	\$	36,365	346,317	\$	-	\$	-	\$	-	\$	36,365		65,793
9		\$-	\$	37,262	344,523	\$	-	\$	-	\$	-	\$	37,262		103,055
10		\$ -	\$	38,180	342,718	\$	-	\$	-	\$	-	\$	38,180	\$	141,235
11	\$ -	\$ -	\$	39,119	340,934	\$	-	\$	-	\$	-	\$	39,119	\$	180,354
12	\$ -	\$-	\$	40,081	339,139	\$	-	\$	-	\$	-	\$	40,081	\$	220,435
13	\$ -	\$-	\$	41,065	337,345	\$	-	\$	-	\$	-	\$	41,065	\$	261,500
14	\$-	\$ -	\$	42,071	335,551	\$	-	\$	-	\$	-	\$	42,071	\$	303,571
15	\$ -	\$ (13,800	)\$	43,102	333,756	\$	-	\$	-	\$	-	\$	29,302	\$	332,873
16	\$-	\$ -	\$	44,156	331,962	\$	-	\$	-	\$	-	\$	44,156	\$	377,029
17	\$ -	\$ -	\$	45,235	330,167	\$	-	\$	-	\$	-	\$	45,235	\$	422,264
18	\$ -	\$ -	\$	46,339	328,373	\$	-	\$	-	\$	-	\$	46,339	\$	468,603
19	\$ -	\$ -	\$	47,468	326,579	\$	-	\$	-	\$	-	\$	47,468	\$	516,071
20	\$ -	\$ -	\$	48,624	324,784	\$	-	\$	-	\$	-	\$	48,624	\$	564,695
21	\$ -	\$ -	\$	49,806	322,990	\$	-	\$	-	\$	-	\$	49,806	\$	614,501
22	\$-	\$-	\$	51,015	321,196	\$	-	\$	-	\$	-	\$	51,015	\$	665,516
23	\$ -	\$-	\$	52,252	319,401	\$	-	\$	-	\$	-	\$	52,252	\$	717,768
24	\$ -	\$ -	\$	53,517	317,607	\$	-	\$	-	\$	-	\$	53,517	\$	771,285
25	\$-	\$-	\$	54,811	315,812	\$	-	\$	-	\$	-	\$	54,811	\$	826,096
26	\$-	\$-	\$	56,135	314,018	\$	-	\$	-	\$	-	\$	56,135	\$	882,231
27	\$ -	\$-	\$	57,488	312,224	\$	-	\$	-	\$	-	\$	57,488	\$	939,719
28	\$-	\$-	\$	58,873	310,429	\$	-	\$	-	\$	-	\$	58,873	\$	998,592
29	\$ -	\$-	\$	60,288	308,635	\$	-	\$	-	\$	-	\$	60,288	\$	1,058,880
30	\$-	\$-	\$	61,736	306,840	\$	-	\$	-	\$	-	\$	61,736	\$	1,120,616
Totals	\$ (601,165)	\$ (13,800	)\$	1,336,106	9,985,762	\$	30,059	\$	189,066	\$	180,350	\$	1,120,616		



#### Return on Investment & Payback (Graph)



Solar

#### CONTACT



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