



MISSOURI HOUSE OF REPRESENTATIVES
WITNESS APPEARANCE FORM

BILL NUMBER: HB 1854		DATE: 1/10/2024	
COMMITTEE: Utilities			
TESTIFYING: <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: BEN TRAVLOS		PHONE NUMBER: 573-893-1400	
REPRESENTING: MISSOURI FARM BUREAU		TITLE:	
ADDRESS: 701 S. COUNTRY CLUB DR.			
CITY: JEFFERSON CITY		STATE: MO	ZIP: 65109
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: CARA HOOVER		PHONE NUMBER: 573-356-9698	
REPRESENTING: EVERGY		TITLE:	
ADDRESS: PO BOX 418679			
CITY: KANSAS CITY		STATE: MO	ZIP: 64141
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: CHAD DAVIS		PHONE NUMBER: 573-364-1572	
BUSINESS/ORGANIZATION NAME: ROLLA MUNICIPAL UTILITIES		TITLE: ENGINEERING MANAGER	
ADDRESS: 102 WEST 9TH STREET			
CITY: ROLLA		STATE: MO	ZIP: 65401
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: CHRISTOPHER ROHLFING		PHONE NUMBER: 573-881-0242	
BUSINESS/ORGANIZATION NAME: AMEC		TITLE:	
ADDRESS: 2722 EAST MCCARTY STREET			
CITY: JEFFERSON CITY		STATE: MO	ZIP: 65101
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: FRED DREILING		PHONE NUMBER: 816-806-6335	
REPRESENTING: CITY UTILITIES OF SPRINGFIELD		TITLE:	
ADDRESS: 1025 W 64TH TERT			
CITY: KANSAS CITY		STATE: MO	ZIP: 64113
EMAIL: freddreilingllc@gmail.com	ATTENDANCE: In-Person	SUBMIT DATE: 1/10/2024 8:59 AM	
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: STEVE STODDEN		PHONE NUMBER: 417-459-6694	
BUSINESS/ORGANIZATION NAME: MPUA		TITLE: DIRECTOR ELEC T&D	
ADDRESS: 3300 RAVELLO DRIVE			
CITY: COLUMBIA		STATE: MO	ZIP: 65201
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: TOM HULSE		PHONE NUMBER: 573-280-7063	
BUSINESS/ORGANIZATION NAME: CO-MO CONNECT ELECTRIC COOPERATIVE		TITLE: ENERGY SERVICES ADVISOR	
ADDRESS: HWY 5			
CITY: TIPTON		STATE: MO	ZIP: 65081
EMAIL: thulse@co-mo.coop	ATTENDANCE: Written	SUBMIT DATE: 1/10/2024 3:17 PM	

THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.

Thank you for taking the time to read my testimony. I am the Energy Services Advisor at Co-Mo Connect in Tipton MO. I manage our renewable energy program, rebate program and energy efficiency program. I have been at this job for 13 years. Previously I was a small business owner, second generation heating and cooling tradesman. I have heard in the hearing from solar advocates that Electric Cooperatives are not imposing additional fees of \$3,500.00 for solar interconnection and it just is not true. The only reason for any additional charges would be aid in construction cost which would fall on the owner of the solar array. Any other additional construction cost are discussed before the construction would begin on the solar array. The following summary are testimony's from our electric cooperative owner members and have been updated as of Jan 10 2024. Member name: Price10 kW solar connected Nov 2021. All information is pretax. Solar panels are performing well. The member states the sales proposal was inaccurate. Sales proposal was submitted and reviewed by T Hulse at Co -Mo Connect. • Annual utility bill estimates by solar co. \$2,198. Actual utility bill for kWh energy \$1,484• Annual usage estimate by solar co. 14,656 kWh. Actual 19,226 kWh• Rate solar co. used for ROI \$0.15 per kwh. Actual \$0.0772• Loan \$48,196.19 for 25 years @ 1.99%• Solar company says average simple ROI of 12 years• Actual first year of energy savings 9,358 kWh, \$842.22• Actual simple ROI of 57 years. Member name: Marimom20.7 kW solar connected 12/2021. All information is pretax. Solar job is incomplete to date. • Annual utility bill estimate by solar company \$4,146. Actual \$2,965.48• Rate solar company used for estimate \$0.12 actual \$0.0772• Loan \$103.691.39 for 25 years• Solar company estimate simple ROI of about 12 years• Actual savings to date, NONE• Actual ROI is more than 35 years if the system performs as stated by the solar company.Solar company began taking payments 3 months before job was completed. Solar payment is \$300 per month. This member now has a delinquent solar account. Cannot pay both the utility bill and solar payment. This member requested their information be shared at the hearings. They are not happy with solar and wish they could get their money back.Member Name: Garrison7.6 kW solar connected January 2022. System is under performing. Solar loan is \$57,000• Annual kWh usage before solar, 3 year average, 16070 kWh• Annual kWh usage after solar, 10317• Annual utility savings 5,753 kWh at \$0.08 per kWh, \$460.24• Solar loan is \$57,000• ROI presented by solar company, 7.5-12 years• Actual simple ROI, 123 yearsSolar loan is tied to the home. Member cannot afford both solar payment and utility payment due to the under performing solar. They are afraid of losing their home.Member name: HaleSize unknown, estimated between 12 and 16 kW. Member wants the equipment removed from property and damages to his home repaired. The solar equipment that is currently onsite does not work. • 1/24/23 rcvd first email form solar company• 1/25/23 application denied. Rule for the lockable AC disconnect is 5-15 feet adjacent to the utility owned meter. Requested revisions on

page 2 of the NMA and sheet PV-5. • Revisions re submitted and approved to construct by utility 2/20/23• Around the date of 4/20 the filed inspection was requested. The job was not installed according to the approved documents. Requested revisions to the documents and the field work needed to be changed to match what was approved on the submitted documents. • Communication with the solar company has been very difficult. Numerous phone calls and emails were sent to the company by the utility and the homeowner/ cooperative member. • The installation to date is still not working. The solar array will not pair with the utility for net metering. The inverters try to pair with the utility 60 hz frequency and voltage and fails. Solar company has not been responsive to this member or the utility. • Damage from the solar company to the yard and interior structure of the home has not been repaired. The yard was trenched for wires to the home from the utility pole • Loan is \$50,000 Member Name: Kelly 4.6 kW solar. To date system is not operational. • Job was completed before being approved by the cooperative. • The original application was denied. Revisions were made to the app and the system was approved to construct on 8/14/23. Keep in mind it was installed before being approved by the cooperative. • System was denied due to the disconnect being in the utility work area. Requested the disconnect be moved 5-15 feet adjacent to the utility owned pole as approved in the application documents. This member was told the solar array would offset 102% of their energy needs. The 4.6 kW system that was installed will produce an average of 6,431 kWh annually (information from PVWatts web page). Actual usage on site is averaging 20,073 kWh annually This would be an approximate 32% reduction in the annual kWh usage. Not 103%. Member leased the system and will not be able to take advantage of the 30% tax credit. They feel betrayed by the solar company and want out of the deal. This member has reached out to the AG's office and feels like they have no voice or support in this situation.



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WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: ZACH MONROE		PHONE NUMBER: 573-508-2467	
REPRESENTING: AMEREN MISSOURI		TITLE:	
ADDRESS: 101 MADISON STREET			
CITY: JEFFERSON CITY		STATE: MO	ZIP: 65043
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: ANDREW LINHARES		PHONE NUMBER: 314-471-9973	
REPRESENTING: RENEW MISSOURI ADVOCATES		TITLE:	
ADDRESS: 915 EAST ASH STREET			
CITY: COLUMBIA		STATE: MO	ZIP: 65201
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
INDIVIDUAL:			
WITNESS NAME: FRANCES BABB		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: francesbabb@swbell.net		ATTENDANCE: Written	SUBMIT DATE: 1/8/2024 7:42 PM

THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.

Hello my name is Frances Babb. I live in western St. Louis County at 2001 Kehrsdale Ct. Clarkson Valley, MO 63005. My husband and I own 3 homes, all of which are solar powered. I have a conflict and cannot attend the hearing in person, so I am submitting this written testimony opposing HB1854 oppose Rep. Banderman’s bill HB1854 for a variety of reasons. It is not a solar friendly bill.1)

Starting on line 66, solar customers should not be required to pay a higher rate for electricity than non-solar customers. If anything, solar customers should pay a lower rate than non-solar customers. The higher rates simply discourage the use of solar energy. Utility companies are getting free energy from their solar customers at pennies on the dollar and reselling it at a profit. Already this is unfair. To make it even more unfair is an insult.2) Starting on line 75, the solar customer should not have to reimburse the electrical supplier for the costs to buy and install necessary equipment. These costs could be outrageously expensive.3) Starting on line 99, solar customers should not be billed for both the customer and demand charges, but only the standard customer charge this is applied to both solar and non-solar customers.4) In bold starting on line 115, it says: All generation units using battery backup must operate completely isolated from the grid. I do not think this is what you mean. I am hoping that you mean that the above statement is only true when the grid is down. When the grid is down, it becomes a safety issue if the battery system back feeds the grid. You would likely electrocute the linemen who are trying to restore the grid and thus this requirement is part of the current National Electrical Code. However, if you really mean what you said and always must permanently disconnect from the grid, if you have batteries, this would mean that you would be without power when the batteries are fully discharged. Not cool.5) Starting on line 117, it says all neutral connections and grounding points are to be installed to operate isolated from the grid. This is impossible. Please have an engineer review this statement.6) Starting on line 128, there should be no requirement differences between small systems, less than 10Kw and larger ones. Clearly this requirement is designed to keep the utility company in business. Our system is 25Kw and we still have an electric bill. By having stricter requirements for larger systems, this encourages homeowners to opt for smaller systems and keeps their electric bills higher and allows the utility company more profits.7) Starting on line 148 the requirement that the professional electrician or engineer be deemed qualified by the electric supplier is a conflict of interest. If the utility can determine who they deem qualified to be their competitors, then they become a monopoly. Qualifications should be determined in some other manner and not totally in the hands of the entities that lose profits when customers generate their own electricity.8) Missouri is the home of several aerospace companies and is a hub for engineers. Those individuals are perfectly capable of installing a solar system on their own property but do not hold an electrical license – nor do they have the required practicum hours wiring homes necessary to sit for the exam (even though passing it would be a breeze.) It is wrong to require engineers (or any qualified person) to post a bond to install solar on

their own home. This effects the wording starting on line 1509) Starting on line 225, there are way too many unnecessary pieces of information that the utility company expects the solar installer to supply that are none of the utilities business.10) I agree with the wordage starting on line 242, that the installer certify that the panels are placed to generate the most amount of electricity. This will put an end to cities preventing solar on the front of south-facing homes.11) I do not think an energy audit is necessary. Energy audits are outside the skill set for most solar companies. Doing them unnecessarily adds costs to the customer's project and delays the completion of the project.12)

I don't want to supply a bond to ensure proper maintenance and decommissioning of my solar energy system. With the manufacturer's warrantee, my system will not require maintenance in my lifetime and will outlive me, long after I'm dead.13) Having the Attorney General enforce solar issues is wrong. It should continue to be the Public Service Commission. Thank you for reading and considering my concerns on this anti-solar energy bill. I wish I could be there to deliver it to you in person. Frances Babb



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WITNESS NAME			
INDIVIDUAL:			
WITNESS NAME: JEFFREY OWENS		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: 1/10/2024 12:00 AM
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: JONATHAN DOLAN		PHONE NUMBER: 314-540-4400	
BUSINESS/ORGANIZATION NAME: MISSOURI SOLAR ENERGY INDUSTRIES ASSOCIATION		TITLE:	
ADDRESS: 258 MADELINES PARK CIRCLE			
CITY: JEFFERSON CITY		STATE: MO	ZIP: 65109
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: KIRK KREISEL		PHONE NUMBER: 913-601-0700	
BUSINESS/ORGANIZATION NAME: ARTISUN SOLAR		TITLE: OWNER	
ADDRESS: 5750 WEST 95TH STREET			
CITY: OVERLAND PARK		STATE: KS	ZIP: 66207
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: NICHOLAS BARRACK		PHONE NUMBER: 573-341-5488	
BUSINESS/ORGANIZATION NAME: AV3 ENERGY LLC		TITLE: OWNER	
ADDRESS: 104 E. 11TH STREET			
CITY: ROLLA		STATE: MO	ZIP: 65401
EMAIL: cserolla@gmail.com	ATTENDANCE: In-Person	SUBMIT DATE: 1/10/2024 5:18 PM	

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Dear Energy Committee Members:The net-metering law sets a goal of having enough customer-owned solar energy systems to equal 5% of a utilities' peak load. With regard to the co-ops, when this is achieved the generation requirements of Associated Electric will be reduced by 1 1/2% - a very small number. This mere 1 1/2% can cause no operational issues nor financial issues as Associated Electric is selling all of their excess generation on the market. There is really no reason for them to have a problem with the law.I believe it is truly just a philosophical issue with the senior management at Associated Electric, who are funding the lobbyist. They are trying to kill a grand effort by lawmakers in 2007, and an entire industry, by attempting to make you believe customer-owned solar is a harm to their network and a substantial cost to other customers.Next time a co-op employee or lobbyist talks to you on this subject, please challenge them to put this letter in their magazine to see how their customers really feel. If they don't agree with the numbers, have them call me and I'll walk them through the calculations.

Nick Barrack 573-341-5488

MAGAZINEDear Customer:The goal of Missouri's Net-Metering Law passed in 2007 was to transfer 1.5% of our generation over to customer-owned solar energy systems. Since solar customers don't pay as much for maintenance of the network as others do, there is an increased cost to all customers. In the last 16 years we have achieved about half of this goal and the subsidy to all members is currently about \$2 per year. When we get all the way to the 1.5% goal, the subsidy will be about \$4 per year per household.Are you OK with the \$4 per year subsidy to promote renewable energy in your neighborhood, or do you want us to continue to fight the battle to reverse the effect of Missouri's Net-Metering Law? Please email your response to _____ .Sincerely,Your Local Co-op



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WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: RYAN MCDONALD		PHONE NUMBER: 417-849-4886	
BUSINESS/ORGANIZATION NAME: SOLERA ENERGY		TITLE: CHIEF OPERATING OFFICER/CHIEF FINANCIAL OFFICER	
ADDRESS: 3971 EAST EASTMOOR			
CITY: SPRINGFIELD		STATE: MO	ZIP: 65807
EMAIL:	ATTENDANCE:	SUBMIT DATE: 1/10/2024 12:00 AM	
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WITNESS NAME		
BUSINESS/ORGANIZATION:		
WITNESS NAME: MADELEINE ROBERTS		PHONE NUMBER: 573-416-0382
BUSINESS/ORGANIZATION NAME: MOST POLICY INITIATIVE		TITLE: POLICY FELLOW
ADDRESS: 238 E HIGH ST.		
CITY: JEFFERSON CITY		STATE: MO
		ZIP: 65101
EMAIL: madeleine@mostpolicyinitiative.org	ATTENDANCE: In-Person	SUBMIT DATE: 1/9/2024 3:13 PM

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Good morning, thank you to the Chair and committee for having me today. My name is Madeleine Roberts, I am here today with MOST Policy Initiative. We provide research resources to the Missouri State Legislature, and I am here today to share the information contained in our science note, net metering. Net metering laws allow customers who own renewable energy generators to sell extra electricity that they generate back to utility companies. Across the United States, solar panels account for 97% of the electricity generated by net metering in 2018 due to the recent rapid reduction in costs and increased efficiency of solar panels. Net metering policies are common in most states, but there is no standardized approach to compensation of utility customers. Several rate models have been developed, though there is no broad consensus on the ideal. Net metering and distributed energy generation increases grid efficiency and maintains grid reliability and resilience during disruption events. A report on net metering in Missouri found that net metering shifts utility fixed operational costs to customers who do not participate in net metering and increases administrative costs. An approach to avoiding the uneven distribution of benefits and costs associated with net metering are community solar generation projects, where projects owned by multiple community members, and that can be designed in partnership with utilities companies.