# Background for TVA Rate Change comments

- TVA's proposed Grid Access Charge (GAC) serves two purposes: to discourage energy efficiency and distributed energy resources (DER), and to perpetuate and expand a hidden subsidy to large industrial customers.
- TVA's proposed Rate Change will deliberately undermine the economics of solar for commercial & industrial customers – "The number of economic installations will decrease ~40%"
- <u>https://www.tva.gov/Newsroom/Press-Releases/TVA-Opens-Public-Comment-Period-on-Environmental-Assessment-for-Proposed-Rate-Change</u>
- Comments due by April 9 to Matthew Higdon, <u>mshigdon@tva.gov</u>
- Can send directly from our site: <u>https://secure.everyaction.com/vM5Bjh\_bskO2ZGG83AV9Hw2</u>
- excerpts from various TVA presentations to TVPPA...

# We Have Reached Alignment

- Distributed Energy Resources:
  - The market is changing
  - DER presents a threat to our business model
  - Current rates accelerate the issue
  - Change is needed with wholesale and retail rates, and we need to move together

Move Together

✓ A change in load, should result in:

- A change in revenue, which
- Should equal the corresponding change in cost



Rate

Alianment

### <sup>[sic]</sup> Benefits of Rate Restructuring

Essentially ALL "normal" large commercial customers would benefit economically from some amount of on-site solar installations

Based on reasonable assumptions (cost of solar & current rates)

Recommended Rate Restructuring Benefits

- The number of economic installations decrease by ~40%
- Loss of fixed cost recovery is minimized by more than 50%

Changes at retail reduce of uneconomic DER penetration across the Valley Changes at wholesale minimize cross-subsidies between LPCs

Modest reductions in rate levels and changes in structure dramatically reduce the risk of stranded cost and cost shifting



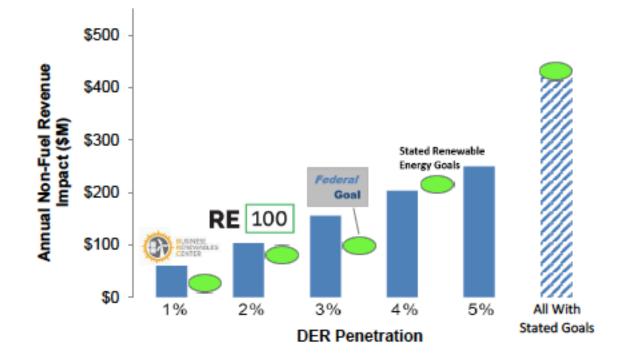
### Market Demand -

#### Commercial & Industrial Renewable Energy Goals



• We consider this progress...

### Potential Revenue at Risk



# • ...They consider it lost revenue.

Among the subset of customers identified, non-fuel revenue

loss could be up to \$500 million.

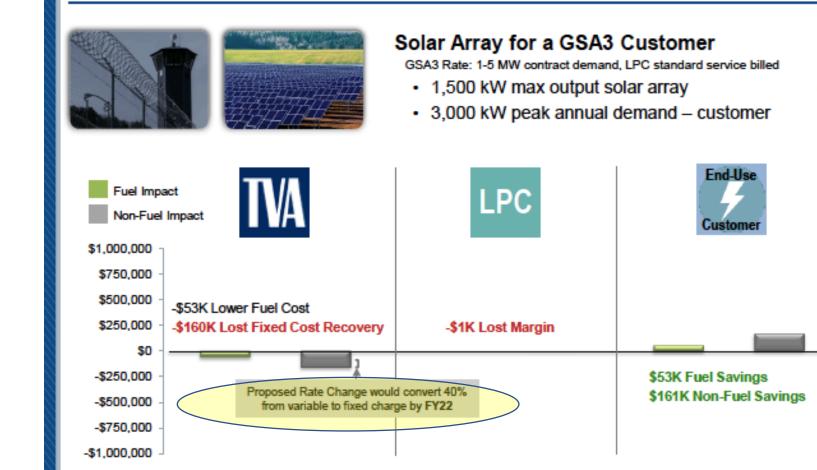
While not all of these customers will choose to bypass, this

population does not include all customers.

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#### Current Example - Solar



Illustrative Max benefit assumed (current pricing)

> Their "solution" is to convert a substantial portion from variable to fixed charge.

Immediate beneficiaries are end-use customer and developer; minimal LPC margin impact Mid/long term – lost fixed cost recovery will be reallocated to all customers

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### **Current Example Summary**







Lost Fixed Cost Recovery - Current Rate Structure				
DER Scenario	TVA/ Valley (000's)	LPC (000's)	End-User (non-fuel savings) (000's)	
Solar	(\$160)	(\$1)	\$161	
Lighting	(\$450)	(\$83)	\$532	
CHP	(\$627)	(\$193)	\$820	

• The revenue risk is not shared equally by the LPCs.

Lost Fixed Cost Recovery - Proposed CTC Rate Structure 2022				
DER Scenario	TVA/ Valley (000's)	LPC (000's)	End-User (non-fuel savings) (000's)	
Solar	(\$96)	LPC & End-Use impacts depend on local retail rate changes		
Lighting	(\$270)			
CHP	(\$376)			



## Spectrum of Redesign Illustrations Option 3

#### Customer A - Coop Heavy Residential

#### GSA3 - 10% Reduction

- 90% of revenue shift to Residential – 0.7% increase
  - Customer Impact \$1.18 increase to Customer Charge, or
  - \$0.00087 increase per kWh
- 10% of revenue shift to GSA-1 – 0.6% increase
- Customer Impact
- \$0.80 increase to Customer Charge, or
- \$0.00089 increase per kWh

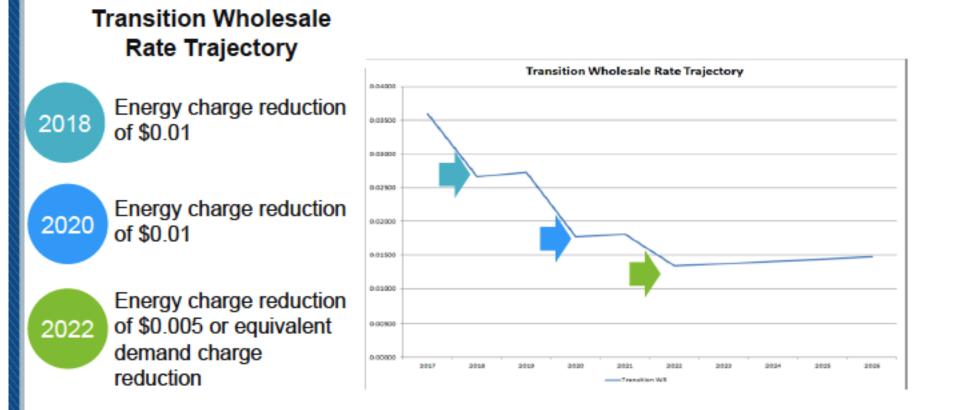
#### Customer B - Muni Heavy GSA2/3 GSA3 – 1.0% Reduction • 70% of revenue shift to

- Residential 0.7% increase
- Customer Impact \$0.90 increase to Customer Charge, or
- \$0.008 increase per kWh
- 30% of revenue shift to GSA-1 – 1.0% increase
- Customer Impact
  - \$2.12 increase to Customer Charge, or
  - \$0.0015 increase per kWh

 "Revenue Neutral" to TVA implies additional "revenue shift" between customer classes at retail.



### Wholesale Pricing Roadmap



The wholesale pricing roadmap proposal is to continue lowering wholesale rates closer to costs and continuously monitor for potential mid-course corrections

Presented November 3, 2016 Rates & Contracts Committee

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- TVA's end game is \$0.025/kWh by 2022 – starting with \$0.01 this year (2018).
- Once this "rate change" (structure) is accepted – others could proceed as a "rate adjustment"

# Comments due April 9

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With TVA's proposed rate change, the average electricity customer could likely pay, in total, over \$350/year before they even flip a switch (\$29.24/month).