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

^[sic] 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



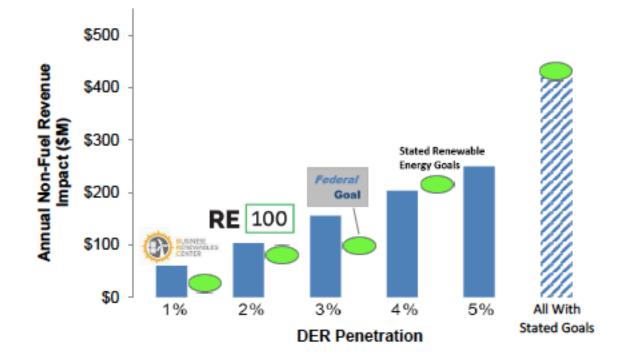
Market Demand -

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.

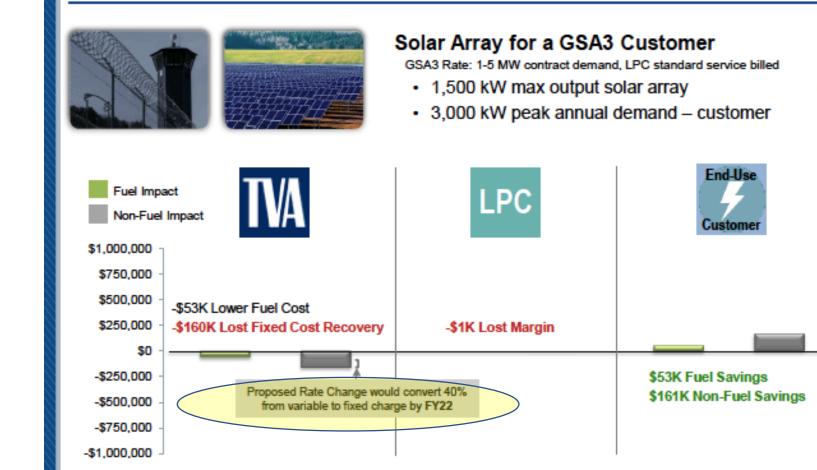
While not all of these customers will choose to bypass, this

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

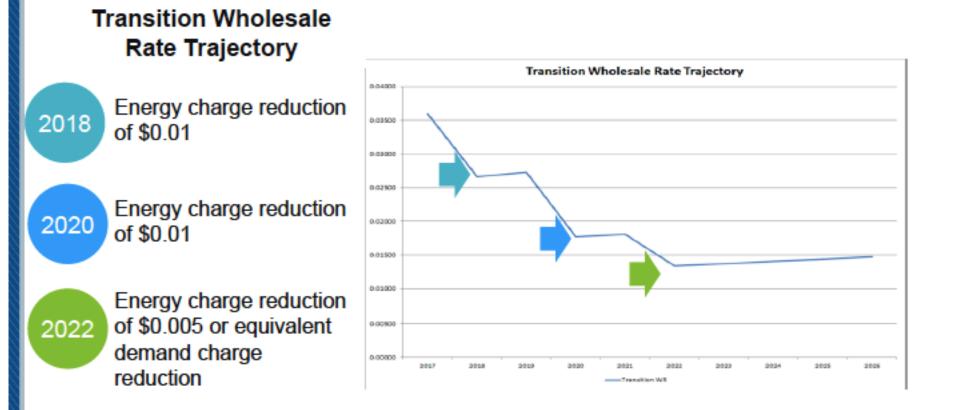
Customer B - Muni Heavy GSA2/3 GSA3 – 1.0% Reduction • 70% of revenue shift to

- 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

TVA Restricted Information - Deliberative and Pre-Decisional Privileged



- 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).