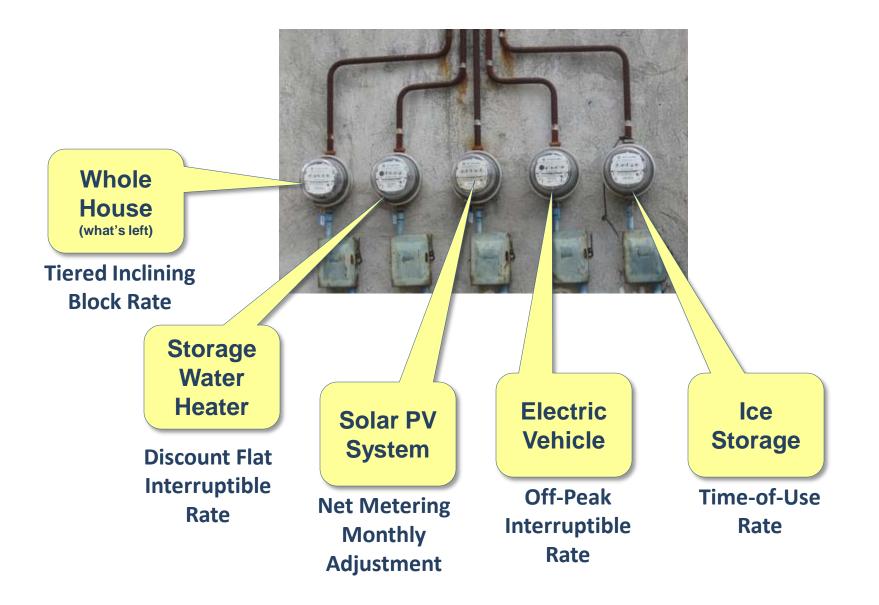
Building a Smart Grid Smarter Customers

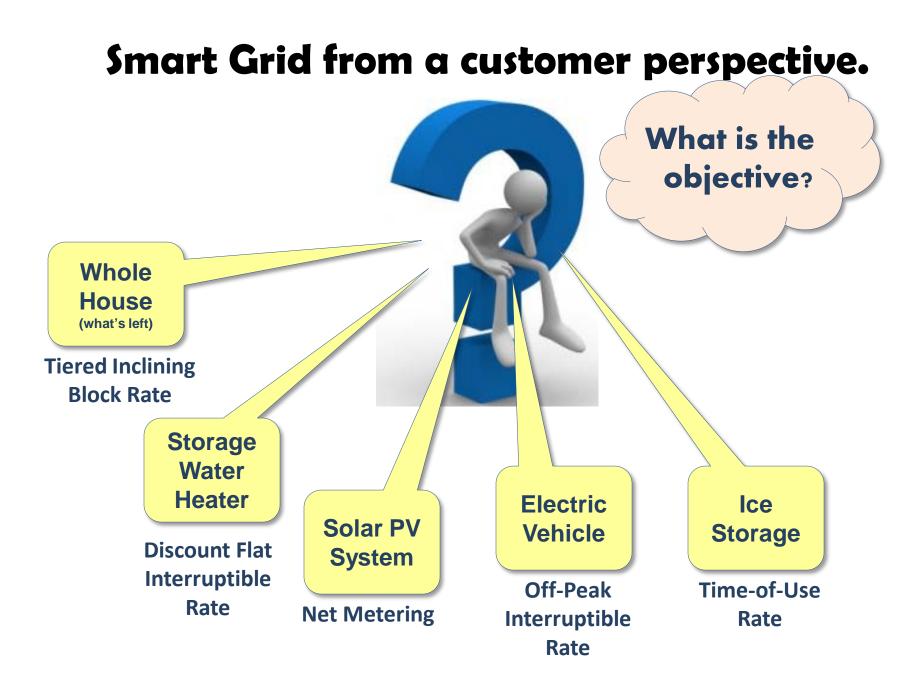
Mid-Atlantic Distributed Resource Initiative Dynamic Pricing Workshop May 12, 2011



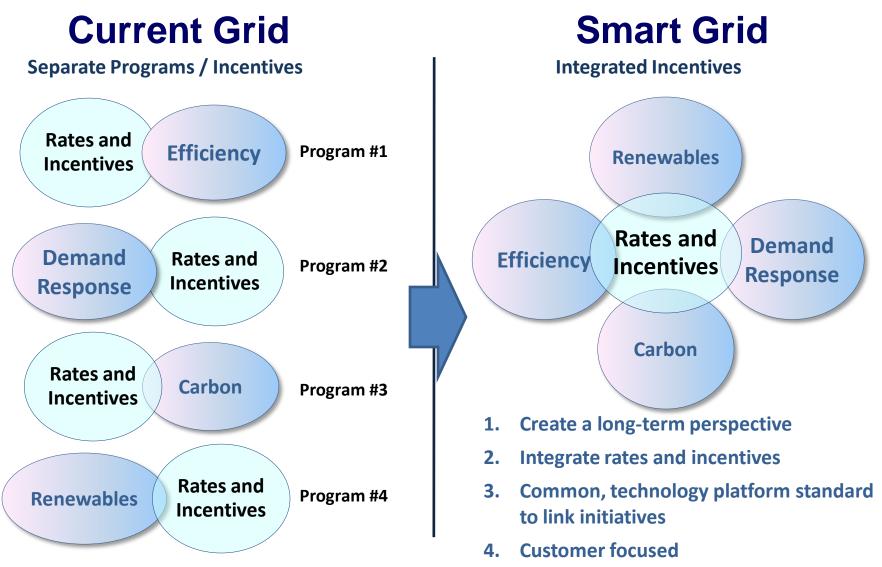
Roger Levy Smart Grid Technical Assistance Project Lawrence Berkeley National Laboratory

Can you spot the problem in this picture?





Rates to support Smart Grid



Smart Grid Critical Rate Features

Rate Components

1. Rate Design

- Is there a clear relationship between usage and customer cost ?
- Can the rate be translated into digital price signals ?
- Is it possible to integrate retail and wholesale prices ?

2. Prices

Can "Price" be used to provide incentives that integrate efficiency, demand response, generation alternatives, and renewable objectives ?

Plan for a Transition: What are the issues?

- How do we transition customers from existing flat and tiered rates to a dynamic rate?
- 2
- How do we educate customers regarding both the opportunities and risks?
- 3
- Will technologies be available so customers can automate their response?
- 4
- What can we do to identify and mitigate potential adverse bill impacts before they create problems?



Plan for a Transition: What are the issues?



How do we transition customers from existing flat and tiered rates to a dynamic rate?



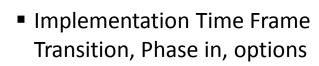
How do we educate customers regarding both the opportunities and risks?



Will technologies be available so customers can automate their response?



What can we do to identify and mitigate potential adverse bill impacts before they create problems?





Tools, case studies, subsidies, regulations



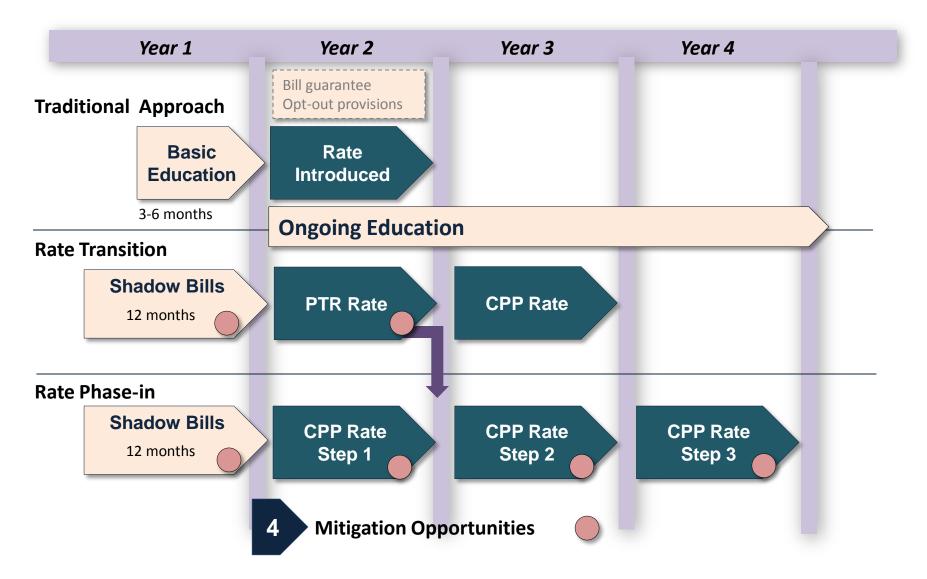
- Utility programs / options
- Non-utility open market options

Monitoring

Pro-active intervention



5.34 Rate Design



Contact Information



Roger Levy Lead Consultant, Smart Grid Technical Advisory Project Lawrence Berkeley National Laboratory Email: <u>RogerL47@aol.com</u> Office: 916 487-0227 Mobile: 916-708-5572

