

# Ancillary Services

## Regulation Example

### Customer A:

12-cp Aux Load within WALC = 150,000 kW

Wind generator serving WALC Load = 80,000 kW (nameplate)

FY2011 (current) regulation rate = \$.165/kW-month

### Monthly Invoice:

|      |                  |   |                  |
|------|------------------|---|------------------|
| Load | 150,000 x \$.165 | = | \$24,750.00      |
| Wind | 80,000 x \$.165  | = | <u>13,200.00</u> |
|      | Total            |   | \$37,950.00      |

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## Imbalance charge Example

Wind generator serving WALC Load = 80,000 kWh (forecast)  
– Assume no load imbalance

Actual Generation  $\longrightarrow$  75,000 kWh

Imbalance (Generator)  $\longrightarrow$  5,000 kWh (5 MWh)

Assuming on-peak, generator would be assessed imbalance penalty based on proposed imbalance structure:

- $100\% \times 4 \text{ MWh} = 4.0 \text{ MWh}$  (1<sup>st</sup> tier imbalance-bandwidth is +/- 1.5% of gen, 4 MWh minimum) x index price (or in-kind settlement)
- $110\% \times 1 \text{ MWh} = 1.1 \text{ MWh}$  (based on 2<sup>nd</sup> tier penalty: +/-1.5% to 7.5%, 4MWh-10MWh minimum) x index price (or in-kind energy settlement)
- Calculated each hour for all 720 (or 744) hours of the month

**IN ADDITION TO REGULATION CHARGE SHOWN IN PREVIOUS SLIDE**

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## Regulation Charging

- Intermittent generation resources not serving load within the balancing authority area will be required to be dynamically metered out of the balancing authority
  - Metering changes will be required for such resources
  - No export schedule from WALC; balancing authority won't "see" this load
  - Would still require customer to purchase transmission service as appropriate

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## **Non-Standard Loads for Regulation**

- Non conforming or non-standard loads are defined as a single plant or site with a regulation capacity requirement of 5 MW or greater on a recurring basis and whose capacity requirement is equal to 10% or greater of its average load.
- For regulation of these loads, the Rate Schedule will require the customer to execute a separate agreement. The “recurring basis” is measured at 5-minute intervals.