Conservation Voltage Regulation (CVR)
Conservation Resources Advisory Committee
January 28, 2015

Energy & Capacity Savings from Improved Regulation of Feeder Voltage
The Standards

- System Optimization
- Line Drop Compensation
- End of Line Voltage Feedback
- Home Voltage Regulation
Where the Savings are Expected to Come From

Source: NEEA DEI Project Final Report by RW Beck page B-23

Approach: Update 6P Assessment (400 aMW, 200 aMW<$30/MWh)

- Original NEEA study solid
- Remove completed projects (~6 aMW)
- Update utility sales data & new forecast
- Incorporate:
  - NEEA Long Term Tracking Report (2014)
  - Avista project & evaluation (2014)
  - Update CVR factors & %ΔV for specific utilities, if data
  - Update max achievable to 85% (was 100%)
  - Adjust 2035 savings for interaction with other EE
Issues for CVR

- **Ramp Rate**: Falling short of 6P ramp rate
  - 6 aMW achieved of 48 aMW available 2010-2013
  - But first Avista project 5 aMW, so can be fast
- **Cost**: Propose no cost adjustments
- **Feeder Applicability**: Propose no changes
- **Persistence**:
  - Delta V changes as system changes
  - Measure Life: 15 years with annual O&M cost
- **Individual utility adjustments?**