## **Treating Efficiency As A Resource**

An Integrated Resource Planning Perspective

# IRP Framework

 Rationale for developing EE is to defer the need for more expensive and/or higher risk resources and reduce environmental impacts of the "power system"

It's not a "societal goal" – it's an economic goal

- PNW Framework pre-dated (by about a decade) the invention of "net" and "gross" program impact concepts
  - When Council adopted its approach there were few if any "nonutility" programmatic drivers for efficiency
    - First two plans were adopted prior to first federal energy efficiency standards
    - Energy Star didn't exist
    - There were only very limited federal and/or state efficiency programs

### Basic Components -1

Internal Consistency Between Load Forecast and Conservation Potential Assessment

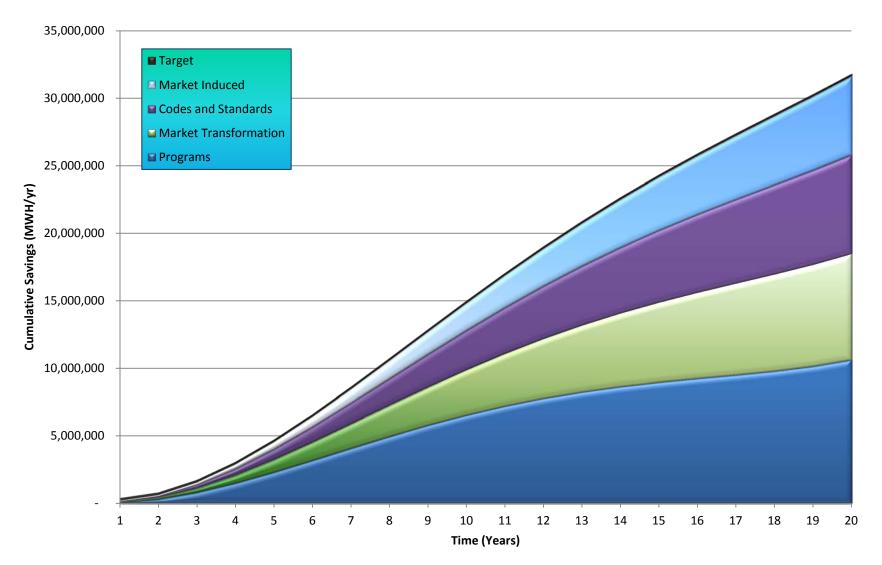
- All potential efficiency improvements are treated as "resource" options
  - Load forecast does not assume any improvements in efficiency beyond those resulting from know codes and standards and stock turnover
  - Both "baseline" and "efficient" states are internally consistent with load forecast
    - Base case forecast EUIs are the "baselines" for conservation potential assessment
    - Post-efficiency EUIs are the "loads" used to determine need for additional generation/power purchases

### Basic Components - 2

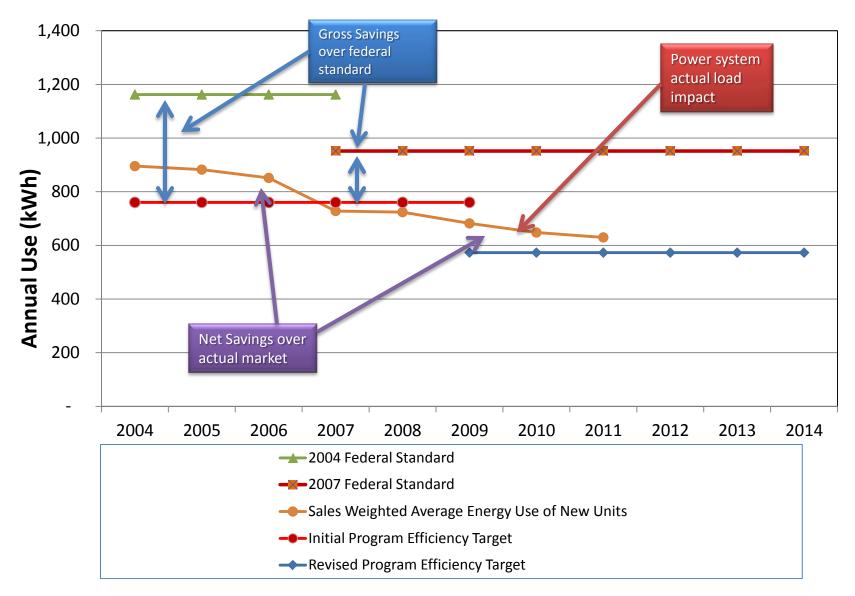
Conservation Targets Are "Relative to Frozen Efficiency" Baseline Forecast

- Savings are tracked against fixed baseline
  - All sources of savings count toward target
    - No "attribution" of savings is needed for resource planning, only an reliable estimate to today impact
- Accounting for both Programmatic & Nonprogrammatic market effects is required
- "Attribution" (NTG, MT/ME impacts) evaluations are still needed for determining "program efficacy" (and

# "All Source Accounting"



#### My View of "Conventional" Savings Tracking Through Time Example: Residential Clothes Washer



#### PNW Approach to Tracking Savings Through Time Example: Residential Clothes Washer

