

# Energy Efficiency: Enriching Life in the Northwest

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October 15, 2014  
LaPine, Oregon



OUR FARM FRESH EGGS ARE HEALTHY AND DELICIOUS



How are we doing?

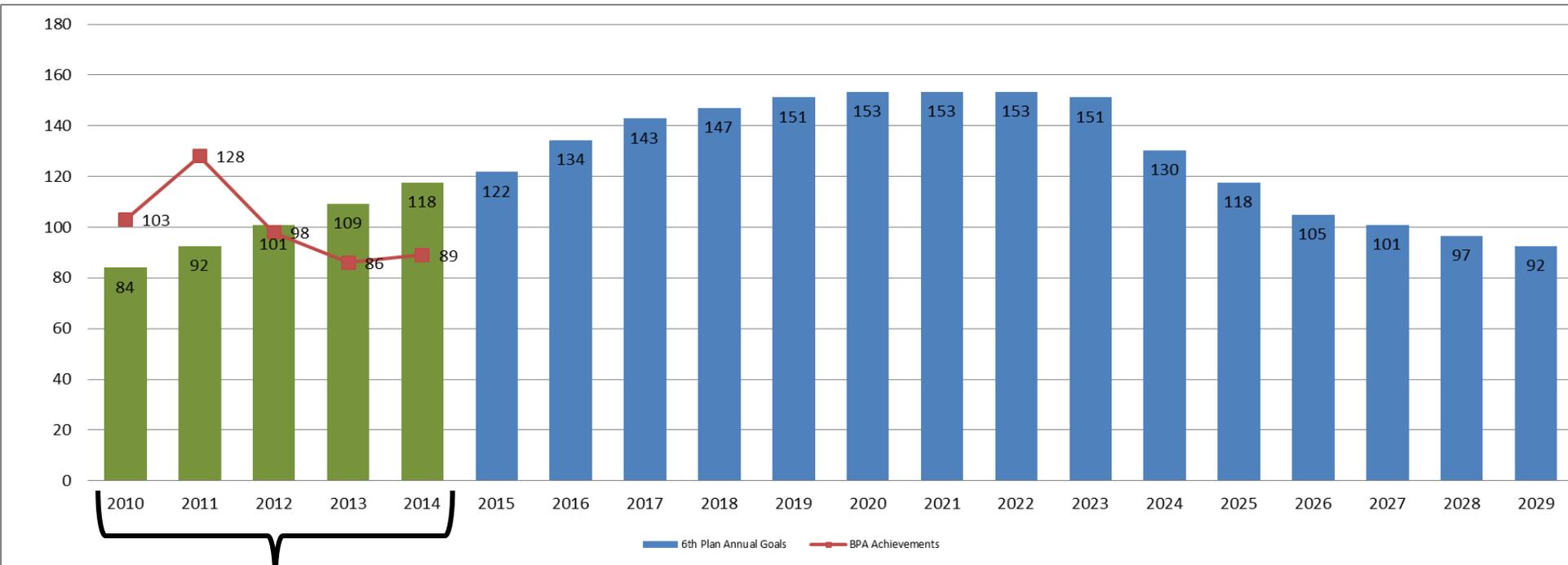


# Energy Efficiency Capital Budget

Together with utilities,  
deploying these funds  
to bring comfort and  
\$avings to rate payers

	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>
<b>EE Capital Budget (\$M)</b>	\$92.00	\$94.70	\$97.70	<b>\$284.40</b>

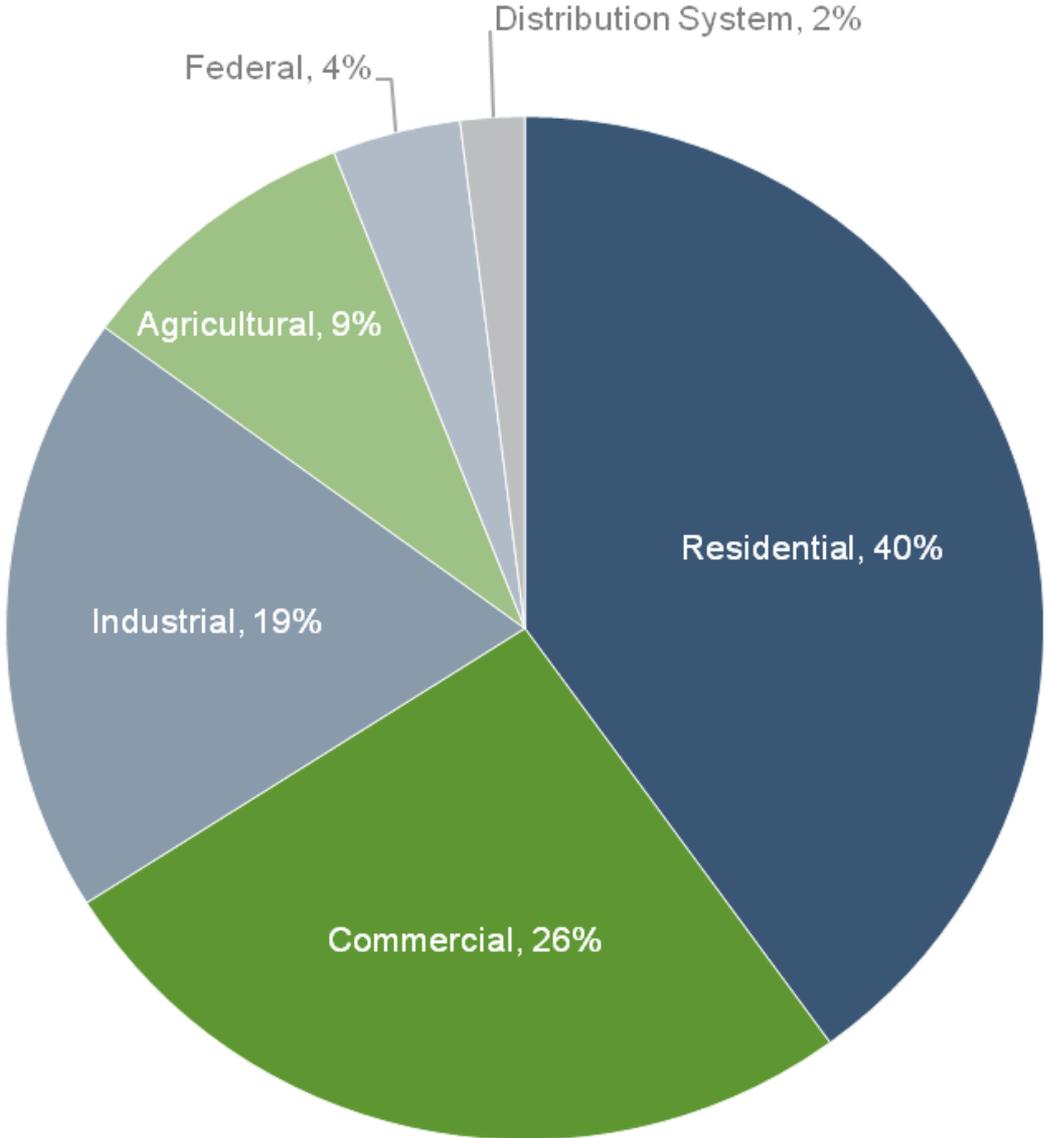
# 6<sup>th</sup> Plan Annual Savings Goals



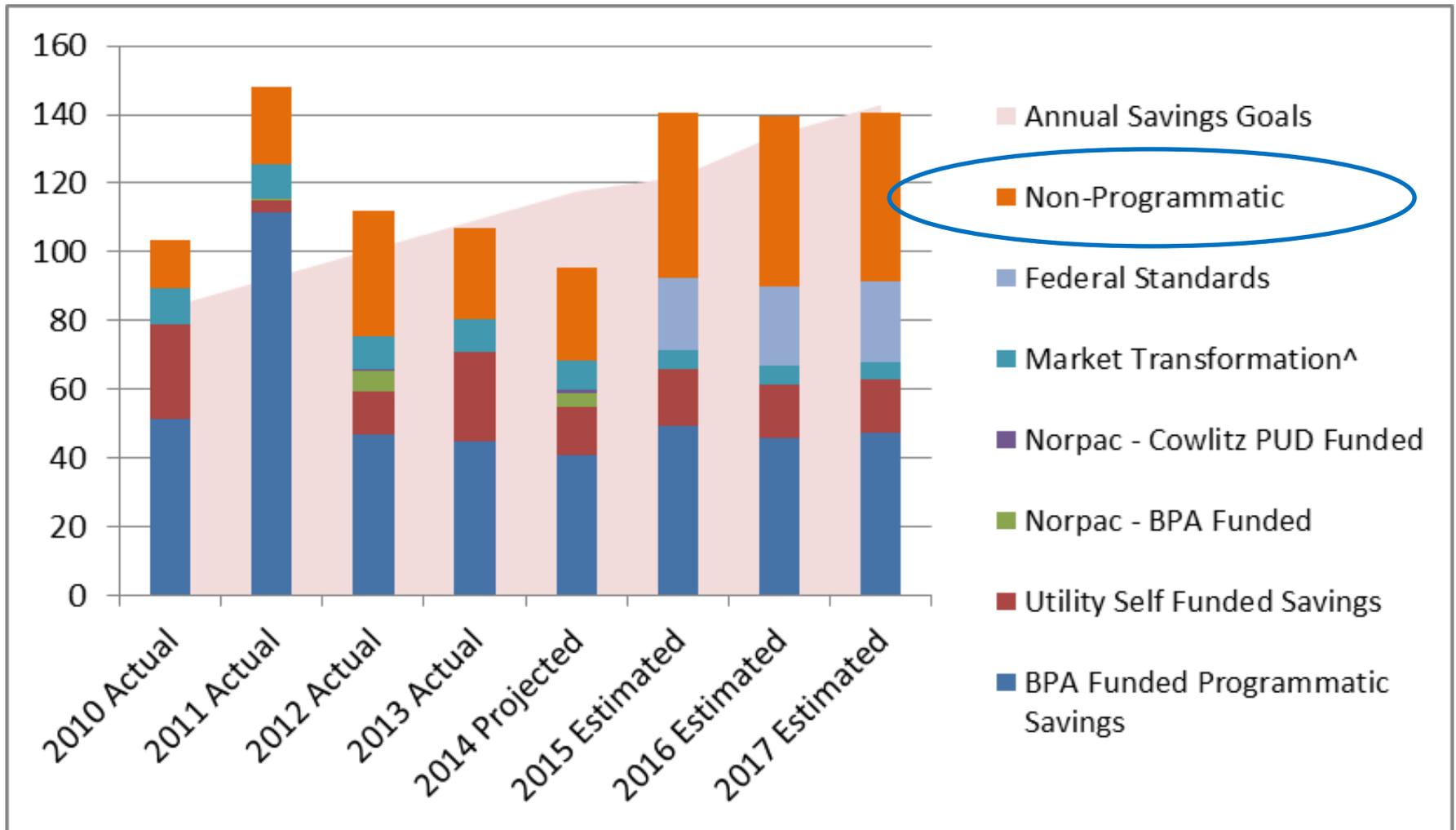
504 aMW

BPA Share - 42% of regional target

# Programmatic Savings By Sector



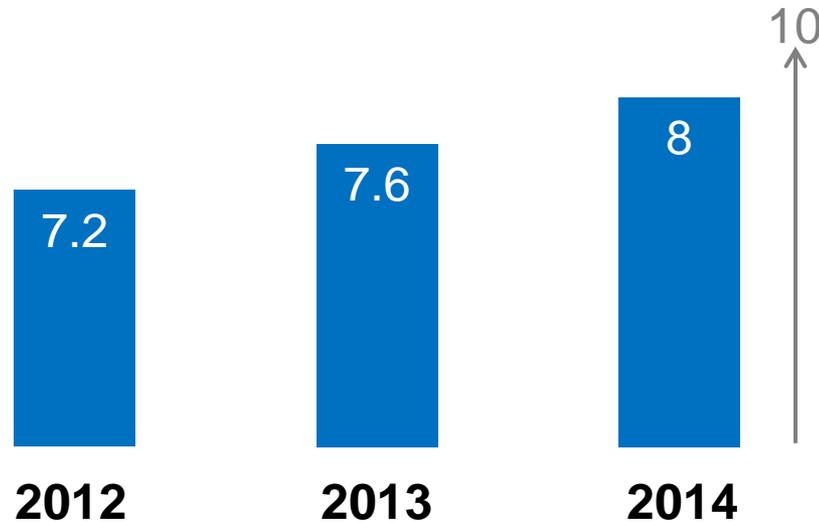
# Savings Goals and Achievements



# Continuous Improvement



# Customer Satisfaction



Having your confidence

Bringing areas of improvement to our attention

Focus on flexibility and simplicity

# Improving the Energy Efficiency Program

## **New Optional Funding Model**

Billing credits are in exchange for independent conservation. (FY2016-2017)

## **Annual Implementation Manual**

Limited changes will be allowed during the year.

## **Inter-Rate Period Rollover**

Customers can roll over up to 5 percent of EEI.

## **Capturing Low-Income Savings**

BPA will sponsor an ongoing low-income workgroup.

## **Large Project Program**

Up to \$10M/rate period will be available for large projects.

## **Reporting Savings**

Best practice is monthly reporting of savings by customers and BPA will report forecasts and actuals quarterly.

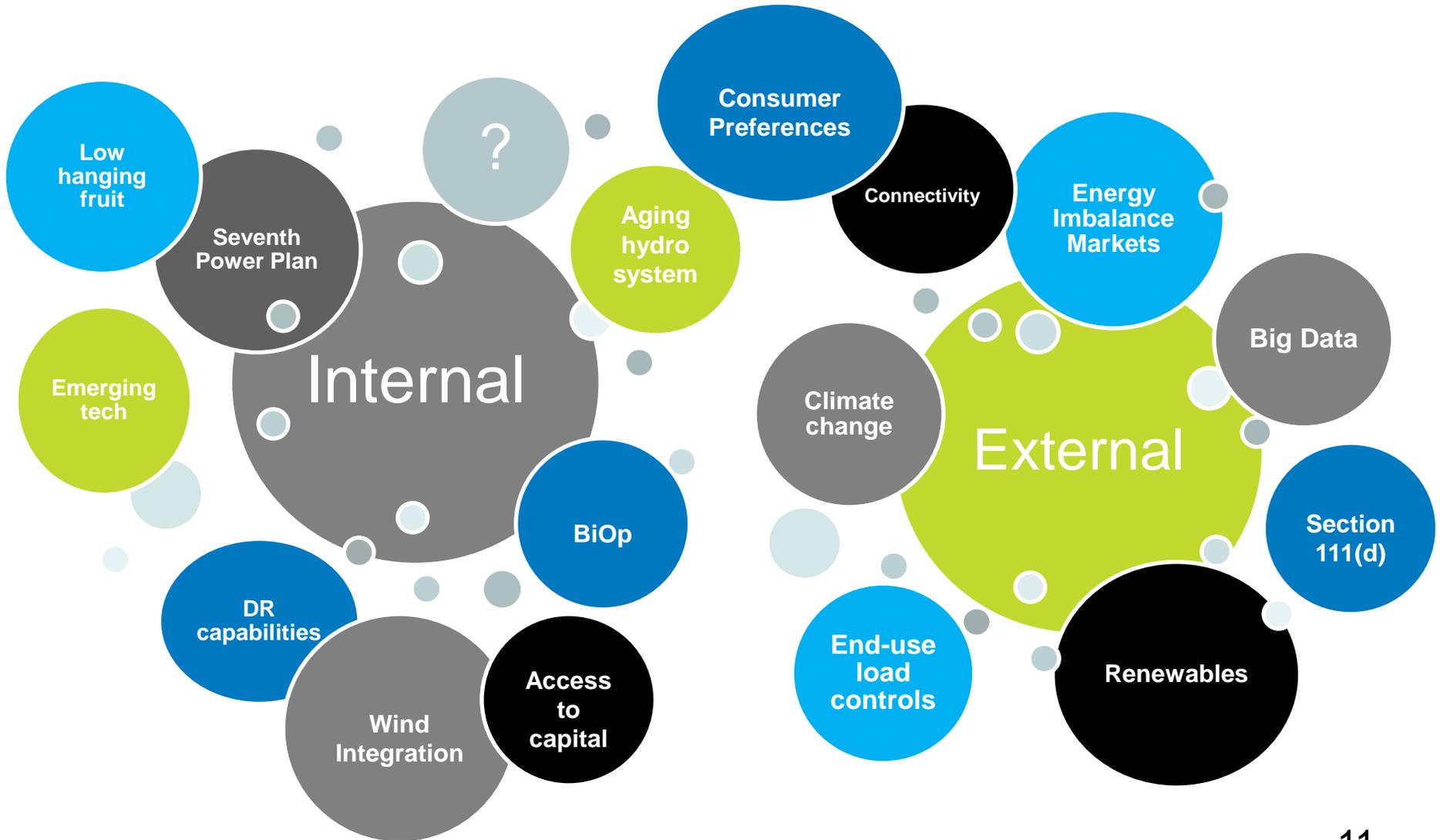
## **Developing New Regional Programs**

BPA will follow a structured process that is transparent and collaborative.



**Advancing Innovative Energy Solutions  
to Enrich Life in the Northwest  
How Do We Ensure Success?**

# We Face a Changing Landscape



# Ensuring Success: By Focusing On These Areas

Integrated  
Demand-Side  
Management

Strategic  
Efficiency  
Portfolio

Well-  
Stocked  
Tool Box

Customer Collaboration

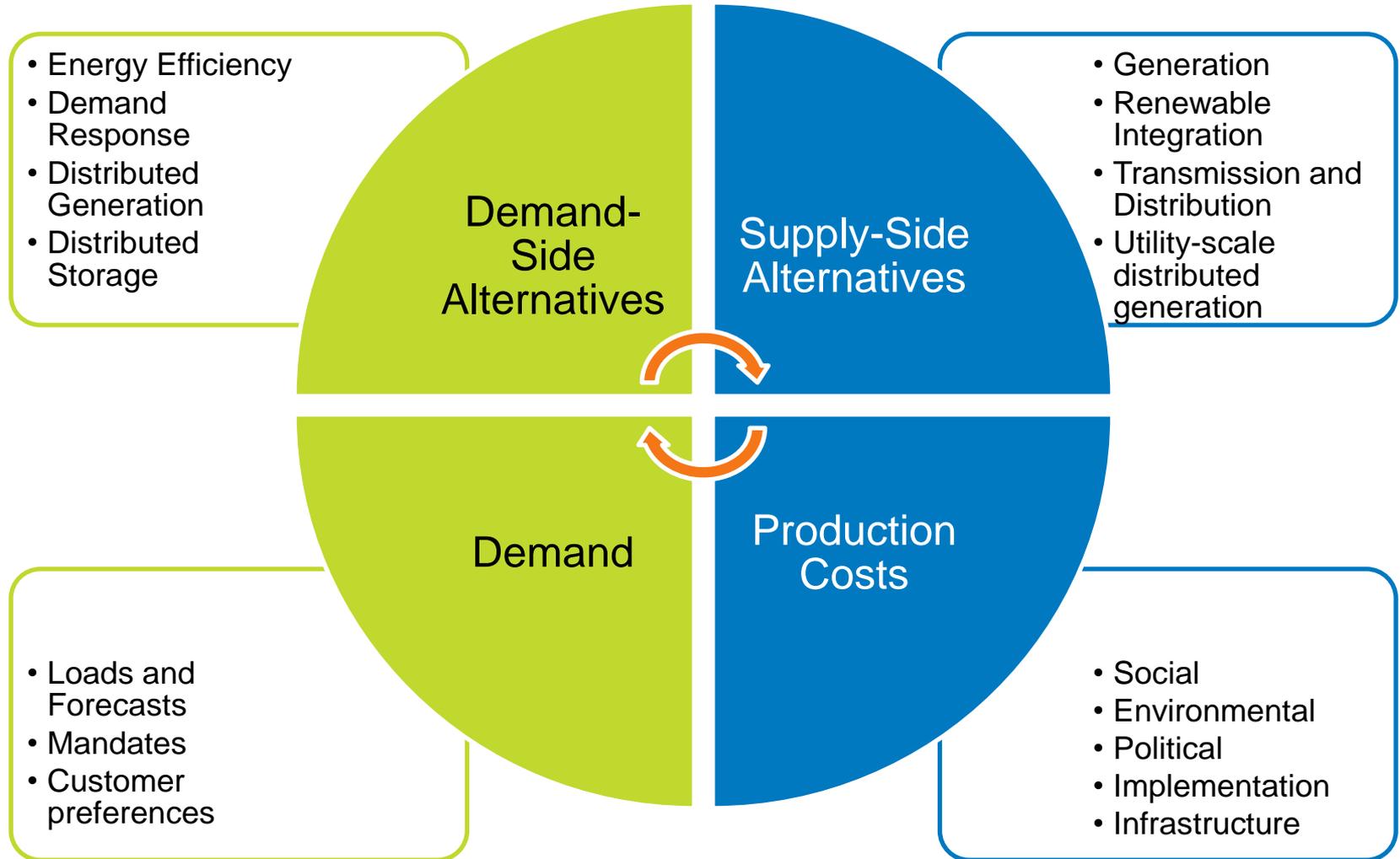
# Ensuring Success: Integrated Demand Side Management

## What is DSM?

DSM shifts consumer loads to help align power consumption with power production and transmission.

- Energy Efficiency
- Demand Response
- Energy storage
- Distributed generation
- On-site renewable energy

# Ensuring Success: Integrated Demand Side Management



# Ensuring Success: A Strategic Efficiency Portfolio

## What could make a portfolio strategic?

Base willingness to pay on the lifetime of a measure, the load shape and timing



Different approaches for different markets



More deliberate menu of Energy Efficiency measures



Maybe every kWh should not be valued the same

# Ensuring Success: A Well-Stocked Toolbox

## Tools on the horizon

LEDs and Controls

DHP/HPWH Combination Systems

Commercial HVAC Controls

High Performance Manufactured Homes

Demand Response Measures

Pump Systems for Commercial Buildings

Variable Refrigerant Flow Systems

Heat Pump Dryers

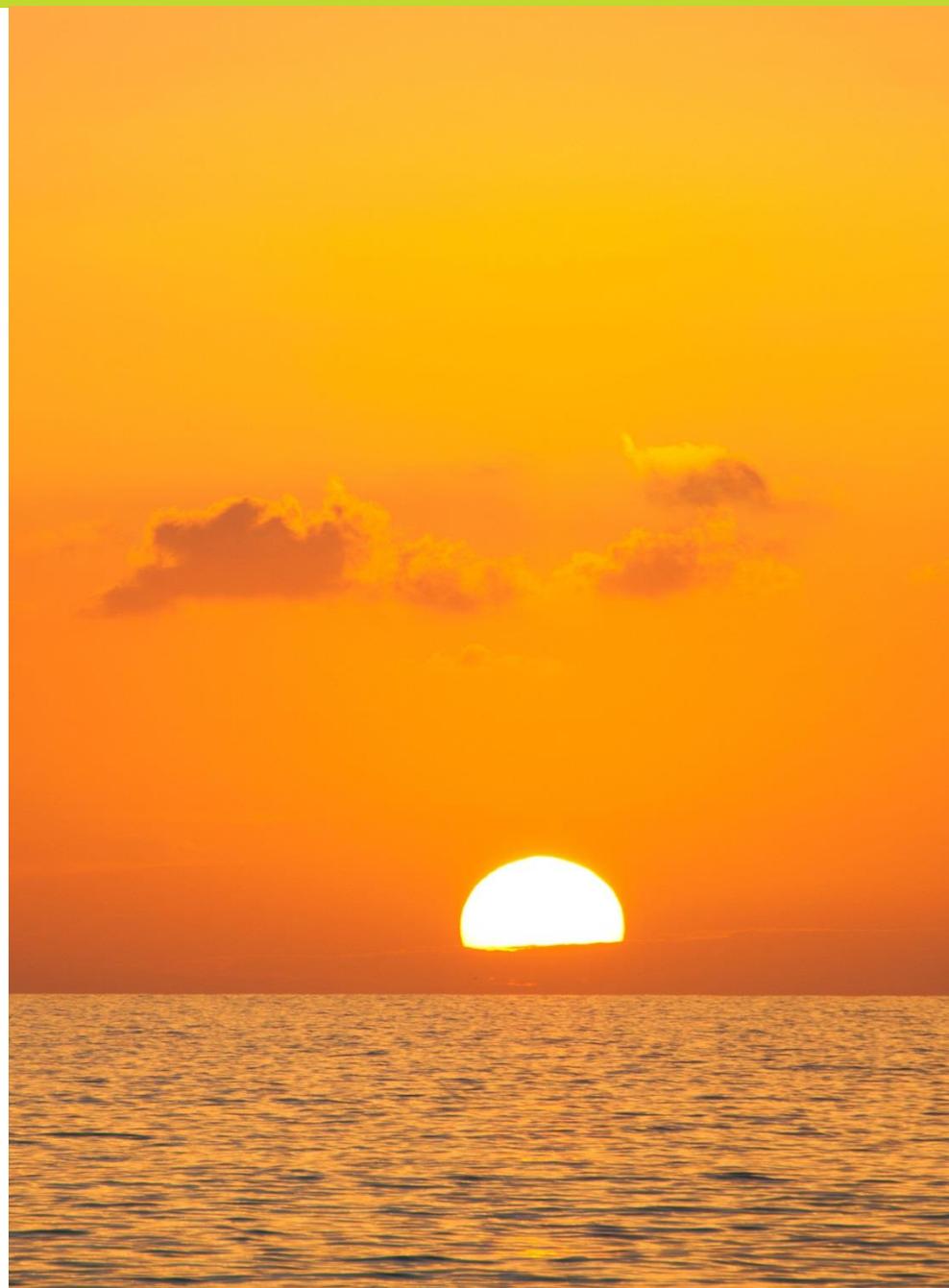
More Deemed VFDs

Gravity Film Heat Exchangers

Distribution Efficiency & Voltage Optimization

Storage of On-site Generation

Behavioral Measures and Programs



# Ensuring Success: Customer Collaboration

Leverage Infrastructure

Participate in Programs

Support changing needs of Customers

Field test

Provide Feedback

Continue to Innovate

Share Progress

# Sharing Progress

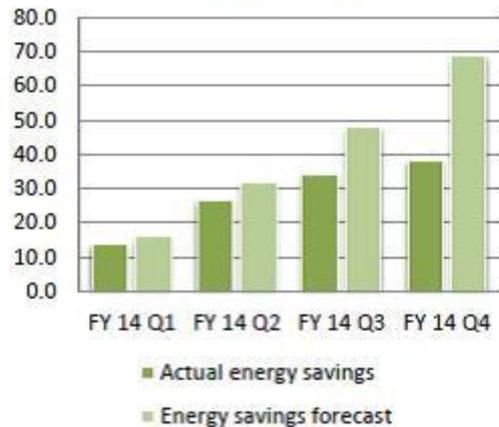
**DRAFT**

Forecast vs. Actual Programmatic Energy Savings  
(Incremental aMW)

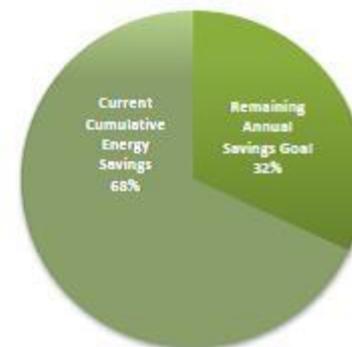
	FY 14 Q1	FY 14 Q2	FY 14 Q3	FY 14 Q4	Total
Energy savings forecast	16.2	15.4	16.2	21.0	68.8
Actual energy savings	14.0	12.5	7.4	4.2*	38.1

\*FY 14 Q4 actuals were downloaded part way through the quarter and are incomplete.

Forecast vs Actual Energy Savings  
(Cumulative aMW)



Progress Toward FY14 Power Plan Goal of 56 aMW



\*FY 14 Q4 actuals were downloaded part way through the quarter and are incomplete.



**Together, We Enrich Life In The Northwest**