

# SPSC

# Scenario Work Group Call

Jim Tarpey, Chair  
Oct. 6, 2010

# Agenda

## **A. Update on the 10 Year Plan Task Force**

## **B. Issues for the SPSC to Consider**

- Methodological approaches
- Selection criteria
- Role of the Foundational Projects
- Relationship of 10 yr plan and 20 yr plan
- Contingent transmission plans
- Questions raised by the 10 Year Plan Task Force

## **C. High Load Case Implementation**

# Update on the 10 Year Plan Task Force

- Held first call Friday, Oct. 1
- Topics
  - Bill Pascoe, Chair of TF
  - Task to develop white paper before next SPSG/TEPPC meetings Nov. 8-10
  - Defining their objectives
  - Outline from Grace Anderson
  - Timelines for draft and follow up meetings

# Tentative Schedule for Task Force

- Week of Oct 4 – First draft of whitepaper
- Week of Oct 11 – Task Force call or meeting to discuss first draft
- Week of Oct 18 – Second draft of whitepaper
- Week of Oct 25 – Task Force call or meeting to discuss second draft
- Week of Nov 1 – Final whitepaper distributed to TEPPC & SPSG
- Week of Nov 8 – TEPPC & SPSG meetings

# Issue: Methodological Approach

- Normative approach
  - general outcome is chosen or policy driven and then developed in a top down approach
- Objective approach
  - review study results and draw conclusions in a bottoms up approach

# Issue: Selection criteria

- Grace Anderson's proposed criteria for selecting projects to be in the plan
  1. Certainty of commitment
  2. Contribution to reliability
  3. Contribution to relieving congestion on the highest congested paths
  4. Responsiveness to public policy requirements
  5. Degree of environmental compatibility
- Other ideas?

## Issue: Role of the Foundational Projects

- Foundational project list was developed by the Subregional Coordination Group (SCG) (all the Subregional Planning Groups)
- Intended to be the projects far along and almost certain to be build by 2020, an assumption of bare bones transmission system needed for reliability.
- Foundational Projects can be viewed as an input to the modeling process
- Should they be viewed as the output for the Plan?

# Issue: Relationship of the 10 yr and 20 yr plan

- DOE asked for a 10 yr plan in 2011 and a 20 yr plan in 2013
- WECC plans to model 20-year studies using the long term modeling tool and explore more diverse policy and technology change scenarios that used in production cost modeling for 10 year studies
- Scope of 10-year studies?
  - Transmission lead time 6-8 years; just in time planning
  - Look at 10-year study as check on glide path for 20 year targets

# Issue: Contingent transmission plans

- Draft discussion paper distributed Sept. 28
- Premise: Transmission outcomes driven by assumptions on loads, generation and policy
- Rather than picking one future to build transmission, examine small number (3-4) to bound the relevant possible futures
  - Low transmission – low load with high DSM/low RPS
  - High transmission – high loads/high RPS/strong CO<sub>2</sub> policies
  - Medium transmission – medium loads/current RPS/mild CO<sub>2</sub> policy
- RTEP process may select one transmission outcome as the “preferred plan”

# Discussion questions raised by the 10 Year Plan TF

- a. Will the 10-Year Transmission Plan identify specific transmission needs (i.e., 1000 MW of transmission capacity between New Mexico and Southern California) and recommend that these needs be addressed?
- b. Will the 10-Year Transmission Plan identify preferred transmission projects (i.e., SunZia) and recommend that these projects be built?
- c. By identifying specific transmission needs and/or preferred transmission projects, will the 10-Year Transmission Plan be, in effect, identifying preferred resources?
- d. Will the 10-Year Transmission Plan endorse or recommend the projects on the Foundational Projects List?
- e. How will the 10-Year Transmission Plan address a range of possible futures?
- f. What differences, if any, do we anticipate between a 10-Year Transmission Plan (delivered in 2011 and 2013) and a 20-Year Transmission Plan (delivered in 2013)?

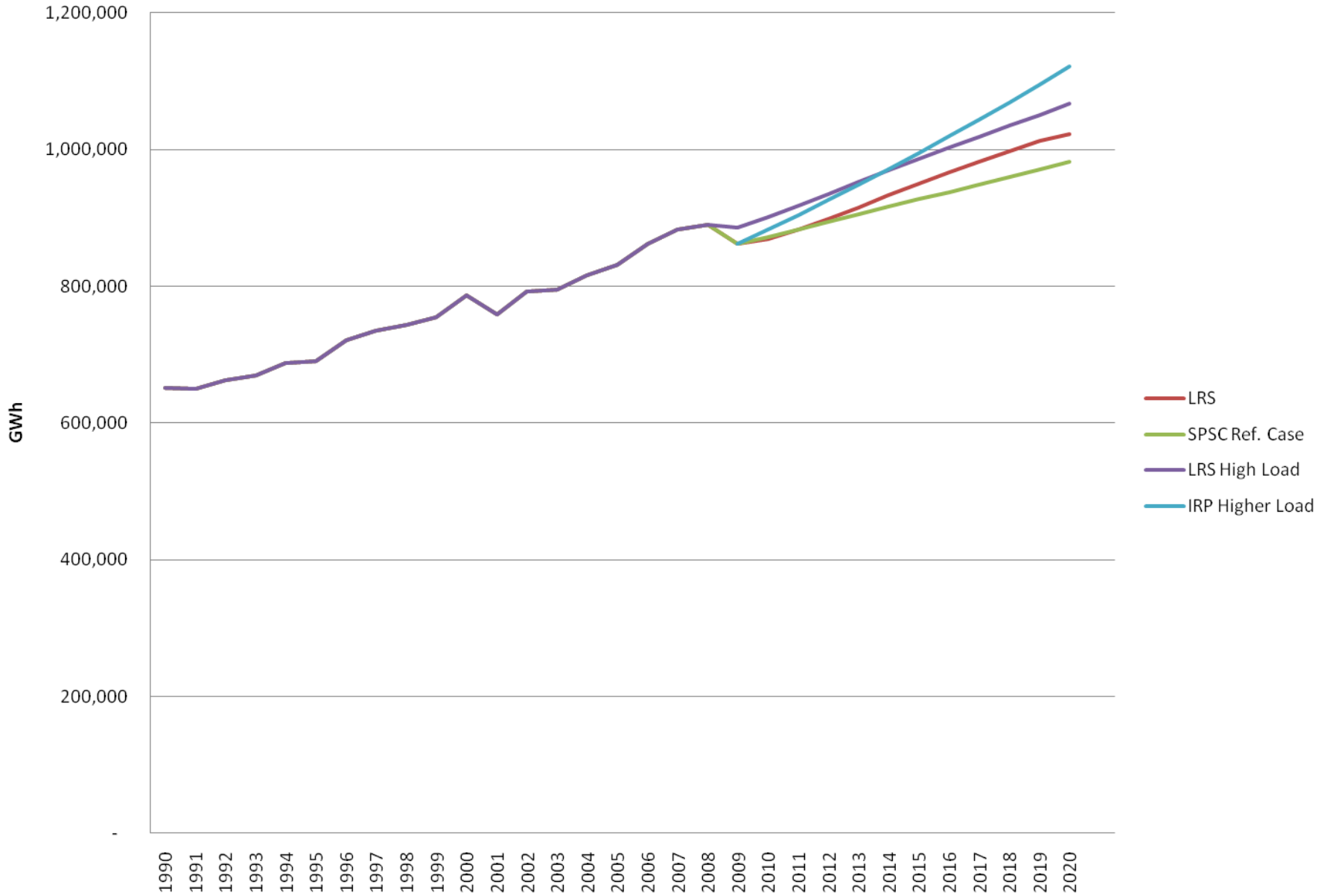
# High Load Case Implementation

- Issue 1: Does SPSC want to use the WECC staff proposed High Load forecast for 2020 using extrapolation of 2008 LRS forecasts, consistent with NERC's methodology?
- Issue 2: Does SPSC want to specify additional generation resources in anticipation of the higher 2020 loads, or would we prefer to assume the higher 2020 loads are unexpected?

# Survey of IRP High Load Cases

LSE	IRP Year	Unit	Type	Range	Average Annual Growth Rate (AAGR)		
					Base/Ref	High	Notes:
APS	2009	Peak MW	Base	2009-2025	3.30%		Forecast prior to EE/DSM/DG impacts.
APS	2009	Peak MW	High	2009-2025		4.30%	Forecast prior to EE/DSM/DG impacts.
Avista	2009	aMW	Base	2010-2029	1.60%		Includes effects of conservation.
Avista	2009	aMW	High	2010-2029		2.60%	Includes effects of conservation.
BC Hydro	2008	Peak MW	Mid	2009-2020	-0.30%		Includes current and future DSM. +1.0% AAGR without DSM effects.
BC Hydro	2008	Peak MW	High	2009-2020		0.10%	Includes current and future DSM. +1.4% AAGR without DSM effects.
El Paso	2009	GWh	Expected (2009-2013)	2009-2013	2.90%		Conservation and load management effects are included in forecasted demand.
El Paso	2009	GWh	Upper Bound (2009-2013)	2009-2013		4.00%	Conservation and load management effects are included in forecasted demand.
Idaho Power	2009	aMW	Expected	2009-2029	0.70%		Includes existing EE/DSM program effects.
Idaho Power	2009	aMW	High	2009-2029		1.60%	Includes existing EE/DSM program effects.
LADWP	2007	Peak MW	Base	2007-2020	0.90%		EE and DSM effects not included in forecast.
LADWP	2007	Peak MW	Hot	2007-2020		0.90%	EE and DSM effects not included in forecast.
NV Power	2009	GWh	Base	2010-2020	1.40%		Past/recent conservation only.
NV Power	2009	GWh	High	2010-2020		2.70%	Past/recent conservation only.
Pacificorp	2008 (Update)	MWh	Base	2010-2019	2.10%		Includes effects of current and incremental DSM.
Pacificorp	2008 (Update)	MWh	High	2010-2019		3.10%	Includes effects of current and incremental DSM.
PGE	2009	aMW	Reference	2010-2030	1.90%		Includes current and future EE effects. Without EE, AAGR is +2.2%.
PGE	2009	aMW	High	2010-2030		2.70%	Includes current and future EE effects. Without EE, AAGR is +3.0%.
PSE	2009	aMW	Base (2007)	2008-2027	1.90%		Past/recent conservation only.
PSE	2009	aMW	High (2007)	2008-2027		2.20%	Past/recent conservation only.
Seattle City Light	2008	aMW	Base	2007-2027	1.30%		Includes past, but no future conservation. New IRP filing soon.
Seattle City Light	2008	aMW	High	2007-2027		2.00%	Includes past, but no future conservation. New IRP filing soon.
Average					<b>1.61%</b>	<b>2.38%</b>	

# WECC Energy Load



# WECC Energy Load

