

SPSC

Scenario Work Group Call

Jim Tarpey, Chair
Oct. 13, 2010

Agenda

- A. High Load Case Implementation**
- B. Update on other SPSC study requests**
 - 1. Reference case**
 - 2. High DSM case**
 - 3. Carbon reduction case**
- C. Memo to poll SPSC members**
- D. Update on the 10-Year Plan Task Force**

High Load Case Implementation

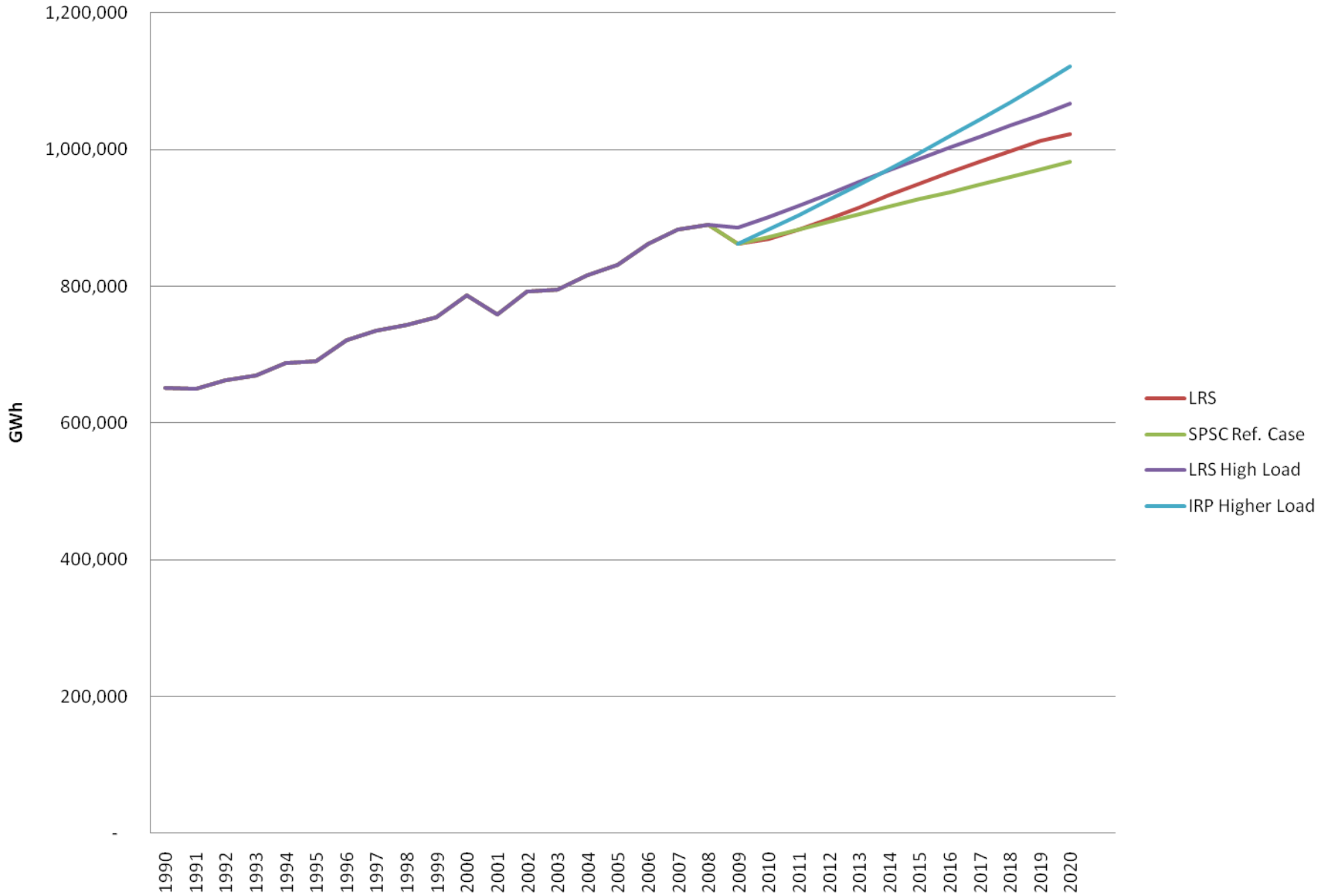
- Issue 1: Does SPSC want to use the WECC staff proposed High Load forecast for 2020 using extrapolation of 2008 LRS forecasts, consistent with NERC's methodology?
- Issue 2: Does SPSC want to specify additional generation resources in anticipation of the higher 2020 loads, or would we prefer to assume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

Survey of IRP High Load Cases

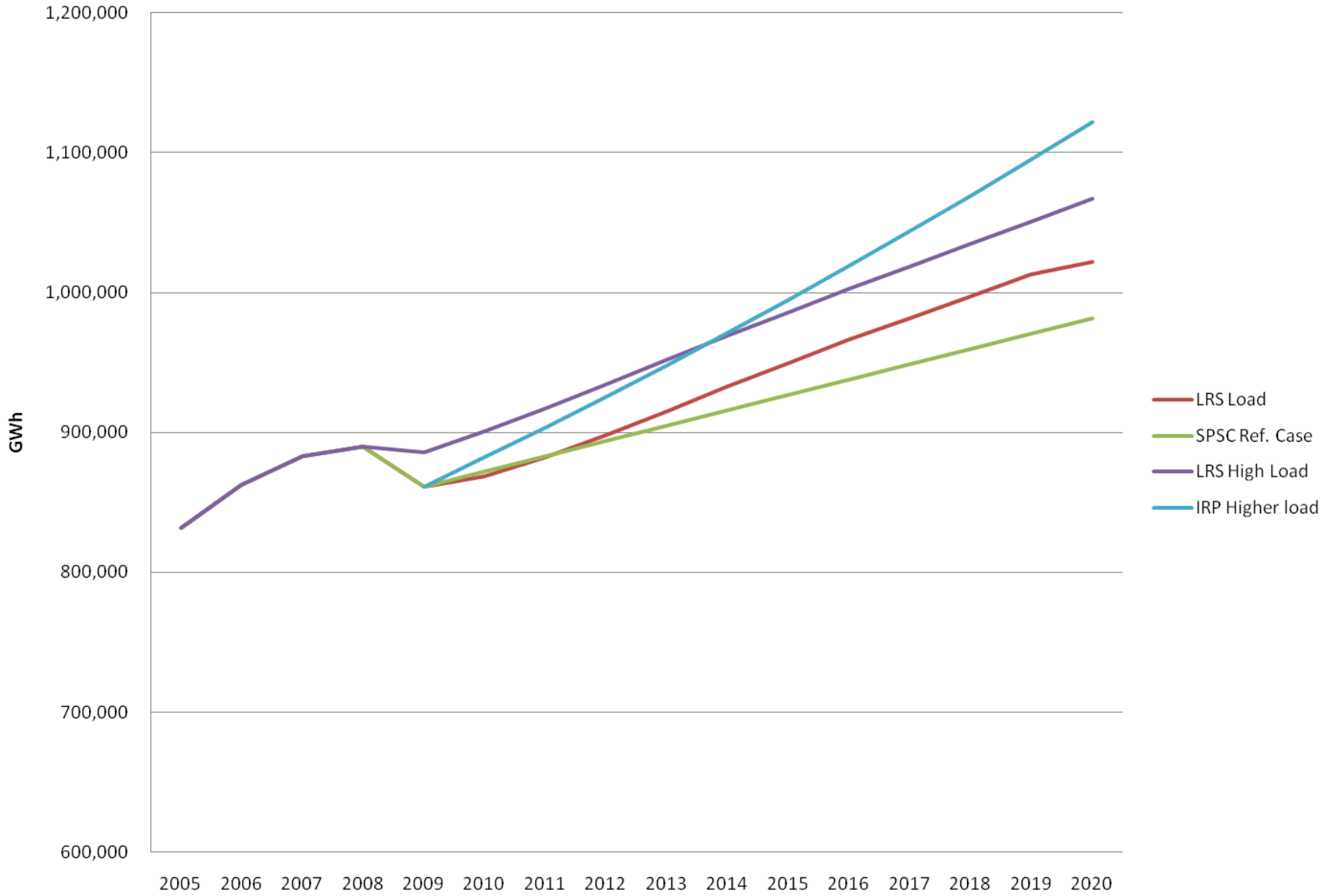
LSE	IRP Year	Unit	Type	Range	Average Annual Growth Rate (AAGR)		
					Base/Ref	High	Notes:
APS	2009	Peak MW	Base	2009-2025	3.30%		Forecast prior to EE/DSM/DG impacts.
APS	2009	Peak MW	High	2009-2025		4.30%	Forecast prior to EE/DSM/DG impacts.
Avista	2009	aMW	Base	2010-2029	1.60%		Includes effects of 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					1.61%	2.38%	

			2008 LRS	IRP Rate
Year	LRS	SPSC Ref. Case	LRS High Load	IRP Higher Load
1990	650,792	650,792	650,792	
1991	649,876	649,876	649,876	
1992	662,227	662,227	662,227	
1993	669,369	669,369	669,369	
1994	688,101	688,101	688,101	
1995	689,885	689,885	689,885	
1996	721,596	721,596	721,596	
1997	734,614	734,614	734,614	
1998	742,892	742,892	742,892	
1999	754,430	754,430	754,430	
2000	786,087	786,087	786,087	
2001	758,837	758,837	758,837	
2002	792,137	792,137	792,137	
2003	795,161	795,161	795,161	
2004	816,079	816,079	816,079	
2005	831,570	831,570	831,570	
2006	862,357	862,357	862,357	
2007	883,022	883,022	883,022	
2008	889,670	889,670	889,670	
2009	861,314	861,314	885,460	861,314
2010	868,490	872,251	900,779	882,236
2011	882,382	883,188	917,364	903,665
2012	897,984	894,125	934,349	925,616
2013	915,262	905,062	952,082	948,099
2014	932,989	915,999	969,546	971,129
2015	949,197	926,936	985,838	994,718
2016	966,579	937,873	1,002,922	1,018,880
2017	981,600	948,810	1,018,623	1,043,629
2018	996,928	959,747	1,034,920	1,068,979
2019	1,012,752	970,683	1,050,820	1,094,945
2020	1,021,873	981,620	1,066,819	1,121,541
2009-2020				
Annual Rate	1.55%	1.19%	1.69%	2.40%
			1.95%	

WECC Energy Load



WECC Energy Load



Update on other SPSC study requests

- 2020 Reference case
 - Renewable portfolio set
 - Load & resource balance check
 - Revised import assumptions between subregions
 - Final adjustments to CA's OTC policy retirements/retrofits/replacements
 - Subregional “gaps” to be filled with conventional resources identified by IRPs and LRS data set

Update on other SPSC study requests

- High DSM case
 - Galen Barbose submitted High DSM load forecasts to WECC staff on Oct. 6
- Low Carbon case
 - Oct. 12 – Staff meeting with Tom Moore (WRAP) who is coordinating state air regulator input on future regulations that could impact coal fleet
 - Developing a strategy to guide modeling effort

Memo soliciting SPSC input/feedback

- John Savage asked the Scenario WG to poll SPSC members for their ideas on what should be in a 10-year plan, criteria, and other issues
- Staff drafted memo for review by Jim and John

Update on 10-Year Plan Task Force

- Oct. 1 – Task Force held first call/meeting
- Oct. 10 – WECC staff distributed first draft of whitepaper to Task Force members; embargoed draft
- Oct. 13 – Task Force members submitted comments on first draft
- Oct. 15 – Task Force second meeting

Schedule of 10-Year Plan Task Force

- Week of Oct. 18 – Second draft of whitepaper (2.0)
- Week of Oct. 25 – Task Force call or meeting to discuss second draft
- Oct. 29 – Whitepaper distributed to TEPPC & SPSG (3.0)
- Week of Nov. 1 – Outreach webinar on the Whitepaper
- Nov. 9 – Joint TEPPC/SPSG meeting to discuss Whitepaper
- Week of Nov. 15 – Revisions to the Whitepaper based on meeting discussion
- Nov. 28 – Release of Whitepaper to WECC Board
- Dec. 8 and 9 – WECC Board discussion