

SSPG
Sierra Subregional
Planning Group
Meeting

NV Energy Report

February 26, 2009

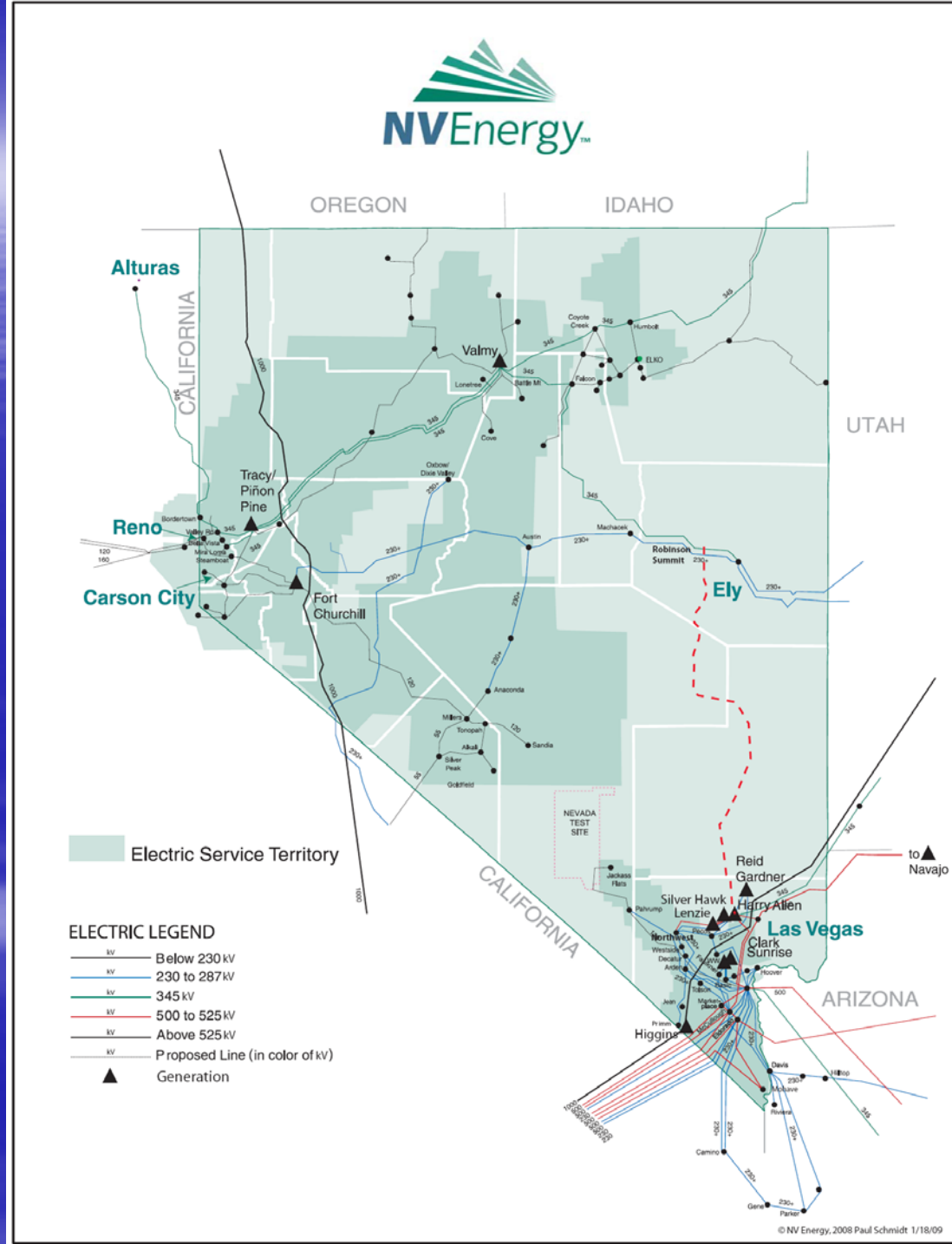
NV Energy Update

- “New Name” – not Nevada Energy
- Some budget delays
- Big Horn power plant purchase, renamed

NV Energy

ENTI 250 miles
500 kV

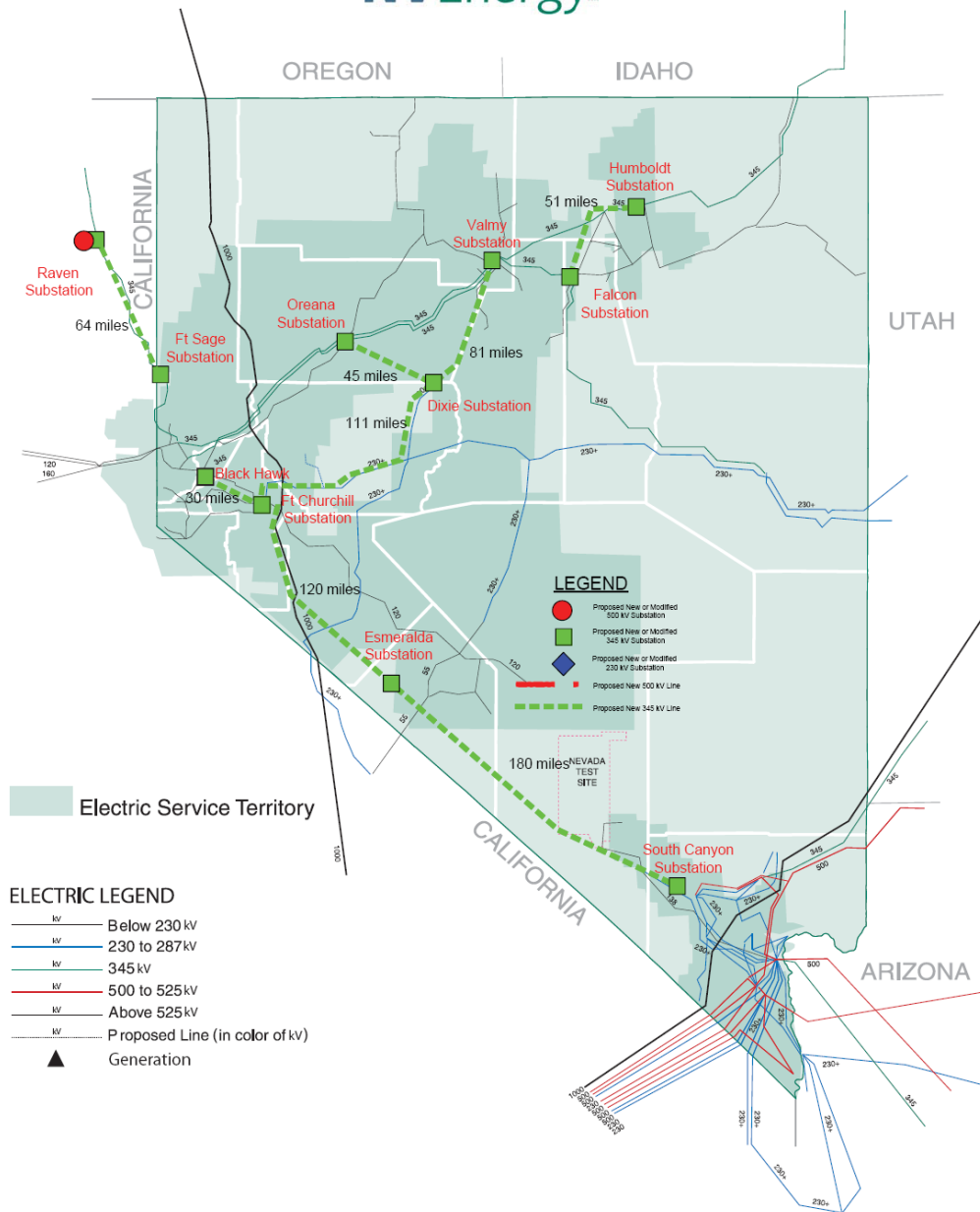
New In-Service Date
Summer 2012



NV Energy Routing Studies



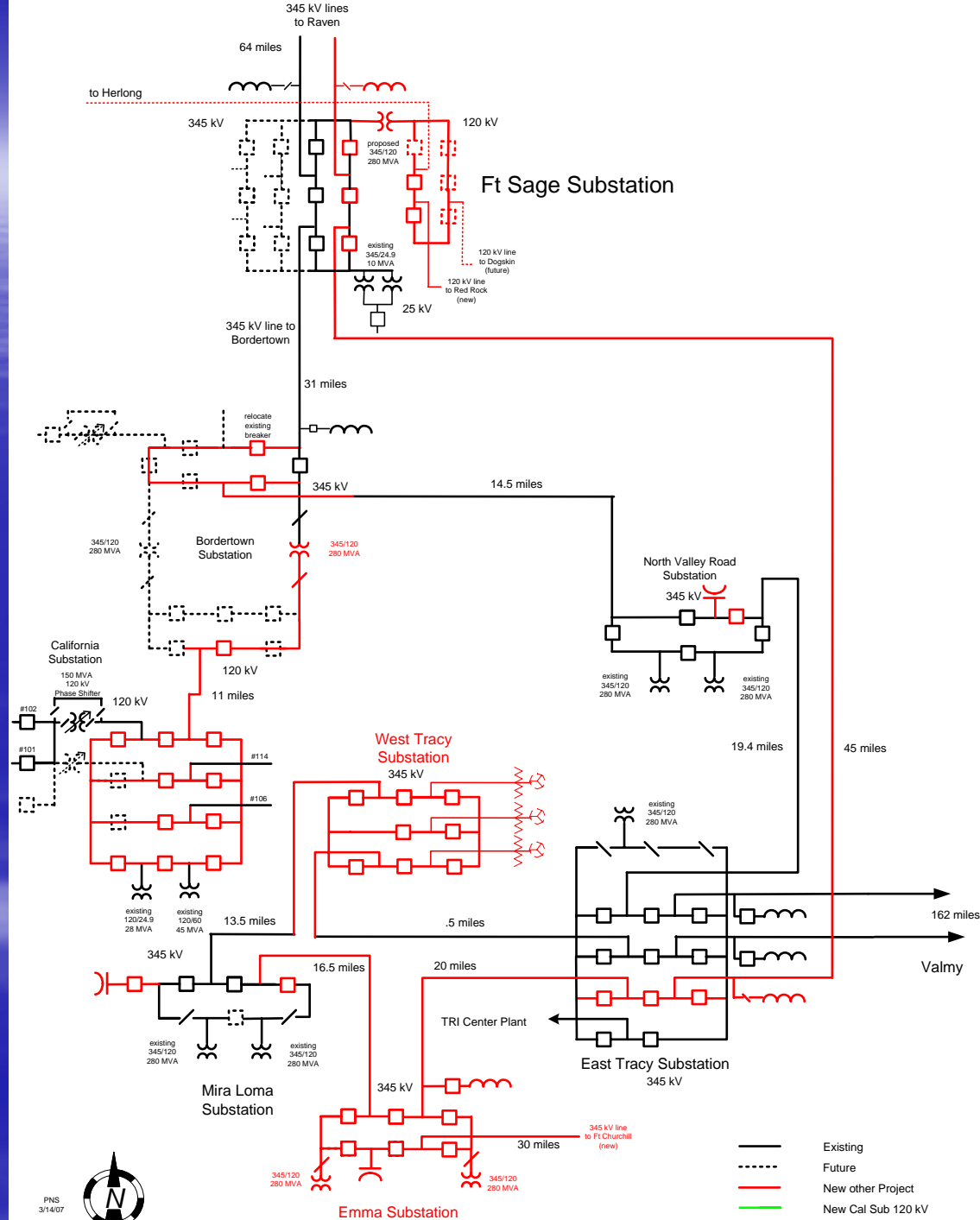
2008 - 2009
PROPOSED 345 KV
ROUTING STUDIES



NPC 10 Year Additions

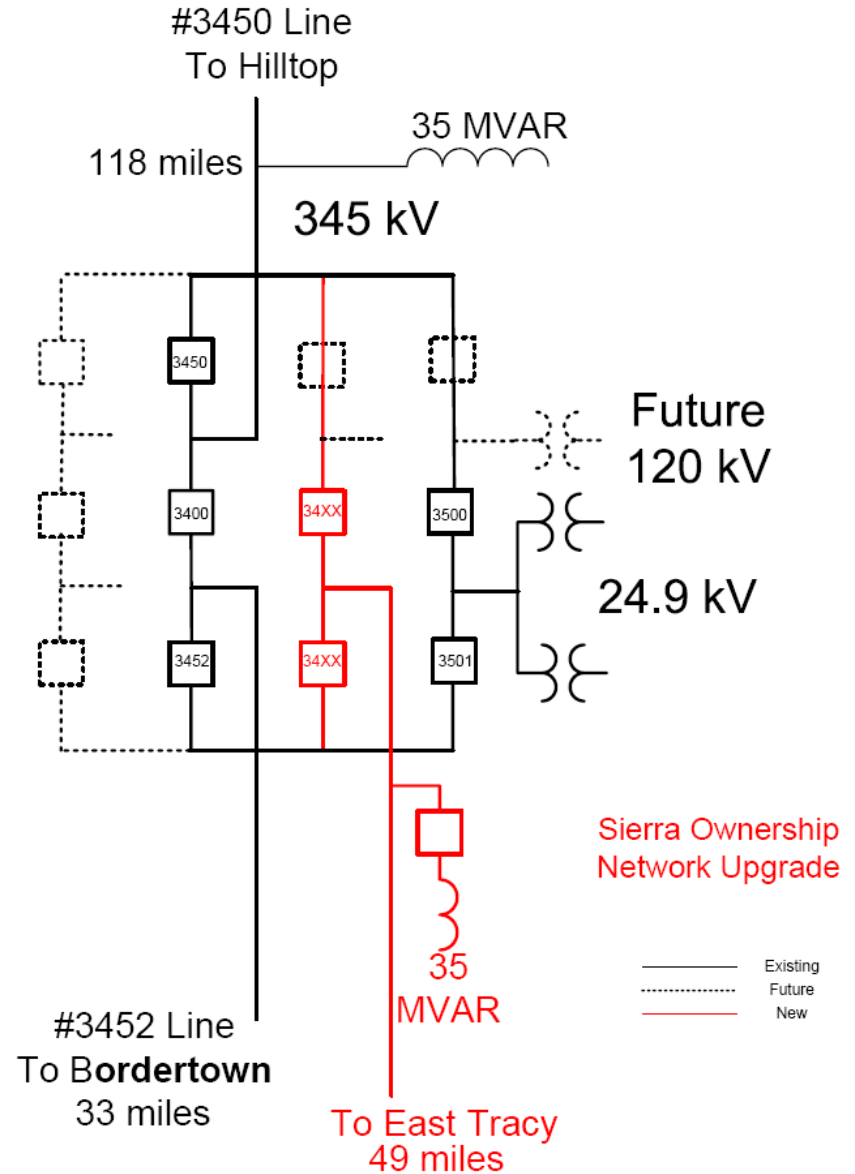


2007 IRP – Reno Load Area Overview



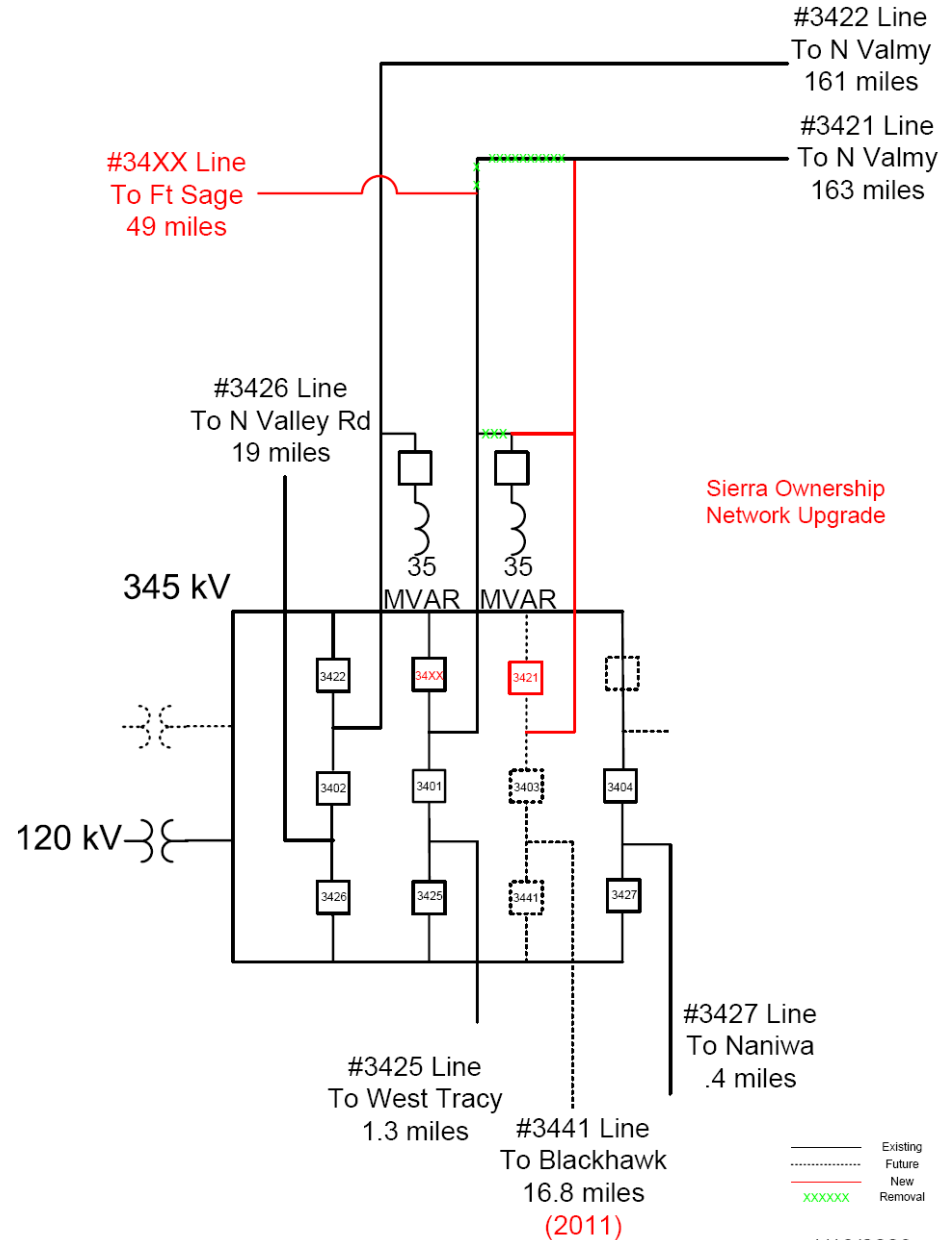
Ft Sage Substation

Currently Proposed Ft Sage Additions



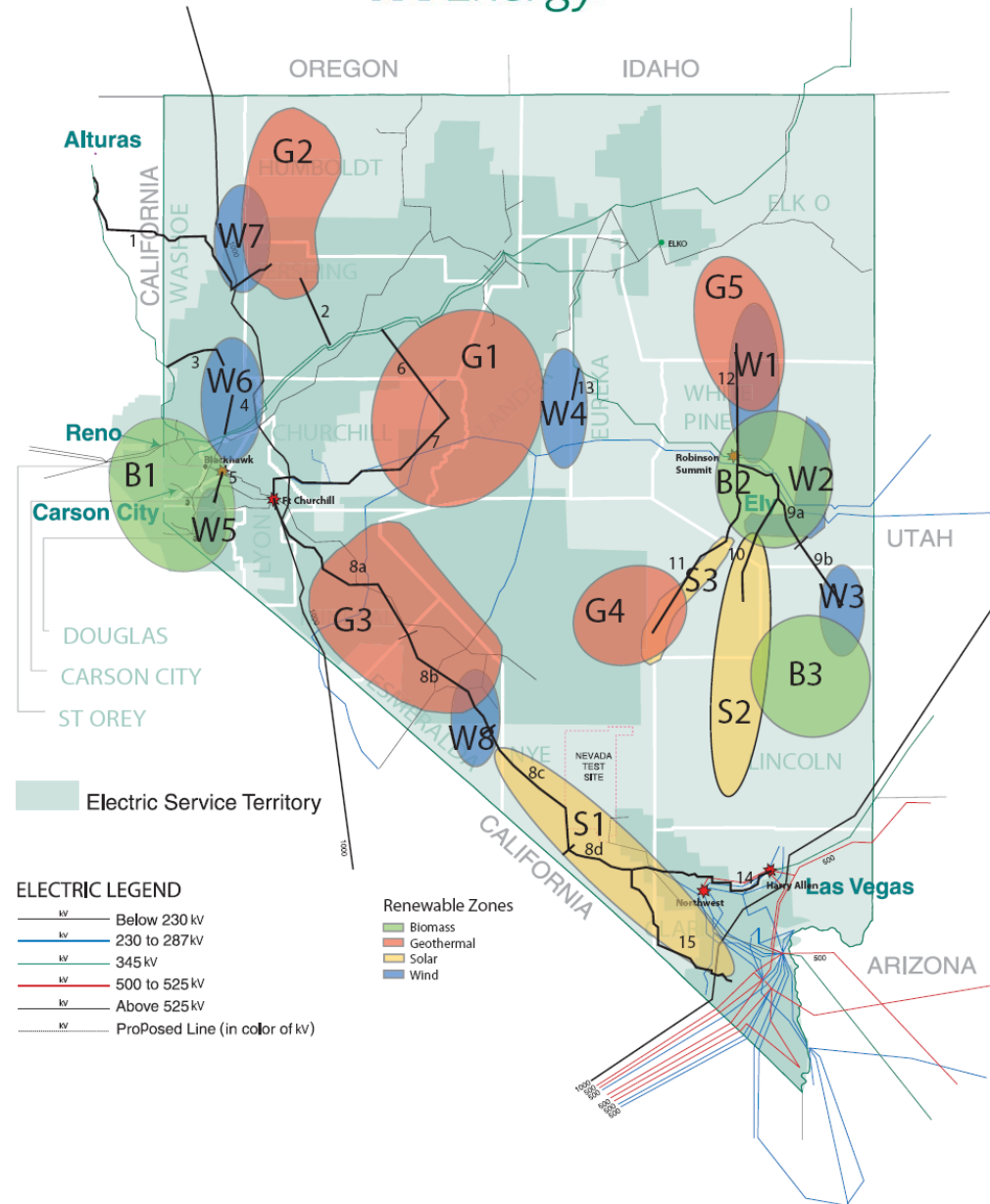
Currently Proposed East Tracy Additions

East Tracy 345 KV Substation



RETAAC II

“Approximate” Resource zones



Nevada Power Company Interconnection Requests

Nevada Power Company Interconnection Requests							Availability		
Company	Application	Max. MW		Point of	Project In	Type	of Prior Area	Type	Comments
	Date	Summer/Winter	County/State	Interconnection	Service Date	ER or NR	Studies		
(v)	(viii)	(i)	(ii)	(iii)	(iv)	(vi)	(vii)	(ix)	(x)
Company 33	5/22/2006	700	Lincoln/NV	Red Butte-HA 345	11/1/2011	NR	yes	coal	
Company 46	11/26/2007	312	Clark/NV	Northwest Sub	12/1/2010	NR	no	solar	
Company 47	11/26/2007	166	Clark/NV	HA 230kV Sub	12/1/2010	NR	no	solar	
Company 48	5/21/2008	240	Clark/NV	Bighorn Sub	5/1/2013	NR	no	solar	
Company 49	6/13/2008	150	Clark/NV	Saguaro 138kV line	5/1/2011	NR	yes	gas	
Company 50	7/21/2008	175	Nye/NV	Mercury Switching Station	5/1/2011	ER/NR	no	solar	
Company 51	7/23/2008	140	Clark/NV	Merchant 230kV Sub	9/30/2009	ER/NR	no	solar	
Company 52	9/29/2008	60	Clark/NV	Bighorn Sub	1/1/2011	NR	yes	solar	
Company 53	10/3/2008	440	Clark/NV	Reid Gardner Sub	1/1/2013	ER/NR	no	solar	
Company 54	10/3/2008	440	Clark/NV	Crystal Sub	1/1/2013	ER/NR	no	solar	
Company 55	10/30/2008	280	Clark/NV	McCullough-Clark 230kV line	7/1/2012	NR	no	solar	
Company 56	10/31/2008	500	Clark/NV	EN-ti	7/1/2012	NR	no	wind	
Company 57	10/31/2008	450	Clark/NV	Silverhawk Sub	12/15/2011	NR	no	wind	
Company 58	11/4/2008	50	Clark/NV	Mercury-Radar 138 kV line	12/1/2011	NR	yes	solar	
Company 59	11/7/2008	80	Clark/NV	Nevada Solar One Sub	12/31/2011	ER/NR	yes	solar	
Company 60	11/10/2008	100	Clark/NV	Laughlin Sub	11/1/2011	ER/NR	no	solar	
Company 61	11/10/2008	20	Clark/NV	Pecos 138kV Ln	11/30/2009	NR	no	solar	
Company 62	11/10/2008	90	Clark/NV	Crystal	10/31/2012	ER/NR	no	solar	
Company 63	11/12/2008	8	Clark/NV	Apex 12kV	10/14/2010	NR	no	biomass	
Company 64	12/5/2008	8	Clark/NV	Nevada Solar One Sub	12/31/2011	ER/NR	yes	solar	
Company 65	12/23/2008	484	Clark/NV	Northwest Sub	1/1/2012	NR	yes	solar	
Company 66	1/9/2009	84	Clark/NV	Jean Sub	11/1/2010	NR	no	wind	
Company 67	1/11/2009	20	Clark/NV	69 kV	11/15/2010	NR	no	solar	
TOTAL		4997							

Sierra Pacific Power Company Interconnection Requests							Availability			
Company	Application	Max. MW		Point of	Project In	Type	of Prior Area	Type	Comments	
	Date	Summer/Winter	County/State	Interconnection	Service Date	ER or NR	Studies			
(v)	(viii)	(i)	(ii)	(iii)	(iv)	(vi)	(vii)	(ix)	(x)	
Company BE	8/29/2005	150	Washoe/NV	Eagle Sub	10/15/2007	NR	no	wind		
Company BJ	3/13/2006	149	White Pine/NV	230kV	12/1/2008	NR	no	wind		
Company BP	6/6/2006	32	Lander-Pershing/NV	Cove Sub	10/30/2009	ER/NR	no	geothermal		
Company BS	9/27/2006	200	Lassen/CA	Alturas 345kV	11/1/2009	ER/NR	yes	wind		
Company BU	10/23/2006	60	Washoe/NV	Eagle Sub	7/1/2008	ER/NR	yes	wind		
Company BW	1/5/2007	150	Lyon/NV	Dove Sub	12/1/2008	ER/NR	no	wind		
Company BX	3/23/2007	100	Washoe/NV	Tracy	12/31/2008	ER/NR	no	wind		
Company BY	4/16/2007	202	Elko/NV	Mdpt-Vmy 345kV	7/15/2010	ER/NR	yes	wind		
Company BZ	3/29/2007	150	Lyon/NV	Dove Sub	11/15/2011	ER/NR	no	wind		
Company CA	5/9/2007	10	Nye/NV	Big Smoky Vly	12/31/2007	ER/NR	no	geothermal		
Company CB	5/11/2007	149	White Pine/NV	230kV	6/30/2009	NR	yes	wind		
Company CD	6/5/2007	100	White Pine/NV	Gonder Sub	12/1/2011	ER	yes	wind		
Company CE	7/10/2007	250	White Pine/NV	Gonder Sub	9/1/2010	ER/NR	yes	wind		
Company CF	8/3/2007	31	Lander/NV	Tonkin Spg	10/30/2010	NR	no	geothermal		
Company CH	8/20/2007	21	Esmeralda/NV	Silver Pk Sub	9/1/2011	NR	yes	geothermal		
Company CJ	8/29/2007	10	Nye/NV	Big Smoky Vly	9/1/2008	ER	no	geothermal		
Company CK	9/5/2007	200	Elko/NV	Humb-Mdpt 345KV	10/1/2011	ER/NR	yes	wind		
Company CL	9/6/2007	102	Washoe/NV	Tracy	9/1/2009	ER/NR	yes	wind		
Company CM	9/6/2007	30	Lander/NV	Antelope Sub	9/1/2011	ER/NR	no	geothermal		
Company CN	9/12/2007	10	Nye/NV	Big Smoky Vly	6/1/2008	ER	no	geothermal		
Company CP	9/12/2007	30	Lander-Pershing/NV	#152 Ln	6/1/2008	ER/NR	yes	geothermal		
Company CQ	9/12/2007	32	Nye/NV	Round Mtn Sub	6/1/2008	NR	no	geothermal		
Company CS	3/4/2008	190	Nye/NV	Tonopah Sub	12/31/2011	ER/NR	no	solar		
Company CT	4/15/2008	250	Washoe/NV	Fort Sage Sub	6/1/2010	ER/NR	No	Gas		
Company CW	6/23/2008	50	Mineral/NV	Table Mtn Sub	6/1/2010	ER	No	Solar		

Sierra Pacific Power Company Interconnection Requests								Availability	
Company	Application	Max. MW		Point of	Project In	Type	of Prior Area	Type	Comments
	Date	Summer/Winter	County/State	Interconnection	Service Date	ER or NR	Studies		
(v)	(viii)	(i)	(ii)	(iii)	(iv)	(vi)	(vii)	(ix)	(x)
Company CY	7/17/2008	15	Washoe/NV	Purgatory Sub	10/1/2011	ER/NR	No	geothermal	
Company CY	7/17/2008	45	Washoe/NV	Purgatory Sub	10/1/2011	ER/NR	No	geothermal	
Company DA	9/10/2008	50	Mineral/NV	Table Mtn Sub	12/31/2014	ER/NR	No	geothermal	
Company DB	9/11/2008	300	Lassen/CA	Bordertown Sub	1/15/2012	ER/NR	yes	wind	
Company DC	9/11/2008	350	Lassen/CA	345kV	1/15/2012	ER/NR	yes	wind	
Company DD	9/23/2008	1	Lassen/CA	Cal Sub	4/1/2009	ER	No	Solar	
Company DG	10/16/2008	150	Lassen/CA	345kV	12/1/2010	ER/NR	yes	wind	
Company DH	10/16/2008	110	Lander/NV	230kV	12/1/2010	ER/NR	no	wind	
Company DI	11/7/2008	225	Washoe/NV	Brunswick Sub	12/31/2011	ER/NR	no	wind	
Company DJ	11/7/2008	50	Humboldt/NV	#117 Ln	10/1/2010	NR	no	solar	
Company DK	11/7/2008	38	Lander/NV	Frontier Sub	12/31/2012	ER/NR	no	geothermal	
Company DL	11/10/2008	100	Wa.& Chur/NV	Valmy/Tracy 345kV	12/31/2011	ER/NR	yes	wind	
Company DM	11/10/2008	90	La.& Eur/NV	Tonkin Spgs	10/31/2012	ER/NR	yes	solar	
Company DN	11/10/2008	20	Esmeralda/NV	Silver Pk-Millers	6/30/2012	NR	yes	solar	
Company DO	11/10/2008	30	Esmeralda/NV	Silver Pk-Millers	6/30/2013	NR	yes	geothermal	
Company DP	11/10/2008	45	Humboldt/NV	Kramer Hill Sub	11/1/2012	ER/NR	no	geothermal	
Company DQ	11/10/2008	20	Churchill/NV	Crook Rd Sub	7/1/2010	NR	yes	solar	
Company DR	12/2/2008	176	Lassen/CA	345kV	1/15/2014	NR	no	wind	
Company DS	2/6/2009	60	Lyon/NV	345kV	4/1/2012	ER	No	geothermal	
TOTAL		4,533							

NV Energy Interconnection Queue (2/11/09)

NVE TOTAL (MW)

Coal	700
Gas	400
Geothermal	489
Solar	3,526
Wind	4,407
TOTAL	9,522

Transmission Providers

- NV Energy
- Great Basin Transmission ?
- Vulcan Power ?
- SNWA
- Northern Lights ?
- State of Nevada (2/4/09)?

The State of Nevada is now forming a nonprofit corporation, controlled by the State of Nevada, to develop and own one or more major new transmission lines and associated facilities in Nevada. A principal purpose of these facilities will be to transmit or enable the transmission of electricity from renewable energy resources.

Nevada Transmission Project (NTP)

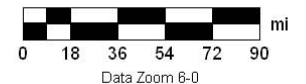
- A quick study of exporting about 4,000 MW from Nevada to California
- Two 500 kV lines from northern California (Raven) to the 500 kV grid in Las Vegas
- Six 500 kV substations connected to existing transmission to pick up generation
- Reduced generation at Moss Landing and Diablo Canyon by 4,000 MW
- TTP in place

NTP

- 1,218 miles of new 500kV line – \$ 1,400,000,000
 - 6 new 500 kV Substations – \$700,000,000
- (ruff estimates)



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Results of NTP Addition

Line Flows (MW)	TTP -No Gen	NTP&TTP -No Gen	NTP & TTP 4000 Gen
Raven to Cal	-30.0	169.8	2373.8
NTP to Vegas	0	-220	916.4
Victorville to Lugo	2127.5	2074.8	2778.4
Table Mt #1	927.6	963.8	1463.4
Table Mt #2	1330.0	1372.7	2003.0
Maxwell #1	1267.7	1315.9	1963.7

Conclusions

- Transmission in both northern California (Olinda to Tesla) and southern California (Victorville to Lugo) would probably also be required if such a project was built in Nevada with 4,000 MW of generation.
- This was only an example and should not be used for any evaluation of transmission needs or requirements in California.

Customer Questions or Comments Study Requests

- eMAIL

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