BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

UM 1734

In the Matter of)
PACIFICORP, dba PACIFIC POWER's) RENEWABLE ENERGY COALITION) CROSS EXAM EXHIBITS
Application to Reduce the Qualifying Facility Contract Term and Lower the Qualifying Facility Standard Contract Eligibility Cap.)))
)

The Renewable Energy Coalition ("REC") submits the following cross examination exhibits for PacifiCorp witness Bruce Griswold. REC may identify additional exhibits prior to or at the evidentiary hearing.

	UM 1734 – Bruce Griswold										
Number	Title										
REC/400	PacifiCorp Response to Renewable Energy Coalition Data Request 2.4										
REC/401	PacifiCorp Response to Renewable Energy Coalition Data Request 3.2										
REC/402	PacifiCorp Response to Renewable Energy Coalition Data Request 4.1										
REC/403	PacifiCorp Response to Renewable Energy Coalition Data Request 4.4										
REC/404	PacifiCorp Response to Renewable Energy Coalition Data Request 4.5										
REC/405	PacifiCorp Response to Renewable Energy Coalition Data Request 4.6										
REC/406	Non-confidential PacifiCorp Response to Renewable Energy Coalition Data										
	Request 4.7										

REC/407	One-Page Summary of Jonathan M. Weisgall's Statement Berkshire
	Hathaway Energy June 4, 2015

Dated this 14th day of January, 2016.

Respectfully submitted,

Irion Sanger

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Of Attorneys for the Renewable Energy Coalition

UM 1734 / PacifiCorp December 1, 2015 REC 2nd Set Data Request 2.4

REC Data Request 2.4

Please identify any QF contracts the company is aware of which have been able to obtain financing for construction under three year contract terms. If they are not PacifiCorp QFs, please provide as much additional information that the company is aware that is responsive to REC data requests 1.2 and 2.1.

Response to REC Data Request 2.4

PacifiCorp does not track qualifying facility (QF) project financing. Please refer to the Company's response to REC Data Request 2.1; specifically Attachment REC 2.1, which provides the original term of PacifiCorp's QF power purchase agreements (PPA).

UM 1734 / PacifiCorp December 16, 2015 REC 3rd Set Data Request 3.2

REC Data Request 3.2

For each state regulatory jurisdiction the company operates in, please identify the maximum contract term allowed by the state regulatory agency for each year since PURPA was passed.

Response to REC Data Request 3.2

The Company objects to this request as overly broad, unduly burdensome, and not reasonably calculated to lead to the discovery of relevant evidence. The Company also objects to this request because it asks for legal conclusions and requests the Company's legal opinions.

REC Data Request 4.1

Please provide an updated response to REC data requests 1.2, and 2.1 including all QF projects that the company has entered into since the passage of PURPA.

Response to REC Data Request 4.1

The Company objects to this request as overly broad, unduly burdensome, and not reasonably calculated to lead to the discovery of relevant evidence. Without waiving these objections, the Company responds as follows:

Note: as the original attachment provided in REC Data Request 1.2 has subsequently been updated to respond to REC Data Request 2.1 and REC Data Request 3.1, the Company has used the attachment to REC Data Request 3.1 as the starting point of this data request response.

Please refer to Attachment REC 4.1.

	REC Data Req	uest 1.2				REC Data Request 2.1 (REC Data Request 3.1 (subpart (f)) (a) (b) (c) (d) (e) (f) (g) (h) (i										
(a)	(b)	(c)	(d)	(e)	(f)	(a)										
	Power Purchase		Nameplate									Standard Contract		Status		
Plant Name	Agreement (PPA)	Resource	Capacity	Commercial	Actual COD	Length of Original	Renewal Length	Contract Type	State	On or Off	Maximum Contract	Threshold (MW	Operational (N=No,	(S=Shutdown,		
	Execution Date	Type		Operation Date (COD)		Contract (Years)	(Years)	, , , , , , , , , , , , , , , , , , ,			Term (Years)	unless noted)	Y=Yes)	AU= Selling to		
AC Whitney	October 31, 1980	Wind	(MW)) 0.02	October 31, 1980	October 31, 1980	35		Standard	WA	On	unknown	2	N	Another Utility)		
Adams Solar Center, LLC	August 7, 2014	Solar	10.0	April 30, 2017	October 31, 1980	20		Standard	OR	On	20	10	N N	S		
AG Hydro	March 31, 2012	Hydro	10.00	November 1, 2012		20		Standard	OR	On	20	10	N			
Alta Energy (now Cottonwood Hydro)	October 23, 2003	Hydro	1.10	January 1, 2005	January 1, 2005	1		Standard	UT	On	20	3	N			
Alta Energy	Renewal	Hydro	1.10	Existing	Existing		0.5	Standard	UT	On	20	3				
Alta Energy	Renewal	Hydro	1.10	Existing	Existing		0.5	Standard	UT	On	20	3				
Alta Energy	Renewal	Hydro	1.10	Existing	Existing		0.5	Standard	UT	On	20	3				
Alturas Cemetary District	Unknown	Wind	< 0.1	September 8, 1982	September 8, 1982			Standard	CA	On	unknown	100 kW	unknown			
Ballard Hog Farms Inc	September 22, 2003	Biogas	0.05	October 6, 2003	October 6, 2003	5		Standard	UT	On	20	3	N			
Ballard Hog Farms Inc	Renewal	Biogas	0.05	Existing	Existing		1	Standard	UT	On	20	3				
Ballard Hog Farms Inc	Renewal	Biogas	0.05	Existing	Existing		1	Standard	UT	On	20	3				
Ballard Hog Farms Inc	Renewal	Biogas	0.05	Existing	Existing		10	Standard	UT	On	20	3				
Baughman & Sons, Inc	June 12, 1985	Wind	< 0.1	June 12, 1985	June 12, 1985	20		Standard	CA	On	unknown	100 kW	unknown			
Baughman & Sons, Inc	Renewal	Wind	< 0.1	Existing	Existing			Standard	CA	On	unknown	100 kW				
Baughman & Sons, Inc	Renewal	Wind	< 0.1	Existing	Existing	20		Standard	CA	On	unknown	100 kW	2.7			
Bear Creek Solar Center, LLC	August 7, 2015	Solar	10.0	April 30, 2017	Eah 4 2010	20		Standard	OR	On	20	10 aMW	N			
Bell Mountain Hydro LLC (Ted Sorenson)	February 4, 2010	Hydro	0.28	February 4, 2010	February 4, 2010	20 40		Standard Standard	ID ID	On	20 unknown	10 aMW	N N			
Bell Mountain Power (Jake Amy) Beryl Solar	January 3, 1985 June 4, 2013	Hydro Solar	0.45 3.0	January 3, 1985 July 31, 2015	January 3, 1985 August 24, 2015	20		Standard Standard	UT	On On	unknown 20	unknown 3	N N			
Big Top LLC (QF)	December 19, 2008	Wind	1.65	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N			
Bill Smith	March 29, 1990	Hydro	< 0.1	March 29, 1990	March 29, 1990	20		Standard	OR	On	35	0.1	unknown			
Bill Smith	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1	unknown			
Bill T Womack	July 9, 1984	Wind	< 0.1	July 9, 1984	July 9, 1984			Standard	OR	On	35	0.1	unknown			
Biomass One, L.P.	April 30, 1987	Biomass	25.00	May 25, 1987	May 25, 1987	20		Non-standard	OR	On	35	0.1	N			
Biomass One, L.P.	Renewal	Biomass	32.25	Existing	Existing	20	15	Non-standard	OR	On	20	10				
Birch Creek Hydro	August 21, 1984	Hydro	2.65	August 21, 1994	August 21, 1994	40	15	Standard	ID	On	unknown	unknown	N			
Blue Mountain Wind	July 3, 2013	Wind	80.0	May 1, 2015	Terminated	20		Non-standard	UT	On	20	3	N			
Blue Mountain Wind I		Wind	79.50		Terminated	20		Non-standard	UT	On	20	3	N			
Bly Solar Center, LLC	July 24, 2014	Solar	8.5	April 30, 2017		20		Standard	OR	On	20	10	N			
Bogus Creek	March 11, 1983	Hydro	0.16	March 11, 1983	March 11, 1983	40		Standard	CA	On	unknown	100 kW	N			
Bogus Creek	Amended	Hydro	0.16	Existing	Existing			Standard	CA	On	unknown	100 kW	Y			
Boston Power	June 30, 1986	Hydro	0.10	June 30, 1986	June 30, 1986	35		Standard	ID	On	unknown	unknown	N			
Boston Power	Renewal	Hydro	0.10	Existing	Terminated		5	Standard	ID	On	unknown	unknown		S		
Bruce Adams	Unknown	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1	unknown			
Bruce Adams	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1				
Bruce Adams	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1				
Buckhorn	June 4, 2013	Solar	3.0	July 31, 2015	December 23, 2015	20		Standard	UT	On	20	3	N			
Buffalo	May 17, 1993	Hydro	0.25	May 17, 1993	Terminated	20		Standard	ID	Off	5	unknown	N	AU		
Bureau of Land Management - Rawlins Office	August 13, 2012	Wind	0.10	August 13, 2012	August 13, 2012	10		Standard	WY	On	20	1	N			
Butter Creek Power LLC	December 19, 2008	Wind Natural Cos	4.95	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10 aMW	N			
BYU Idaho C Drop	July 2, 2015 October 18, 2011		6.50 1.10	August 1, 2015 March 15, 2012	August 23, 2015 March 15, 2012	20		Standard Standard	ID OR	On On	not defined 20	10 aMW 10	N N			
Calvin Fox	May 31, 1986		0.02	May 31, 1986	May 31, 1986	20		Standard	OR	On	35	0.1	unknown			
Cargill, Q3 (Kettle Butte Dairy)	February 8, 2011	Biogas	1.70	June 14, 2011	June 14, 2011	10		Standard	ID	On	20	10 aMW	N			
Carl F Brown	April 28, 1981	Wind	< 0.1	April 28, 1981	April 28, 1981	.0		Standard	OR	On	35	0.1	unknown			
CBG Portland	February 23, 2012	Biogas	3.00	February 23, 2012		20		Standard	OR	On	20	10	N			
CDM Hydro	December 4, 1984	Hydro	6.00	December 4, 1984	December 4, 1984	40		Standard	ID	On	unknown	unknown	N			
Cedar Valley	June 4, 2013	Solar	3.0	July 31, 2015	December 7, 2015	20		Standard	UT	On	20	3	N			
Central Oregon Irrigation District	April 12, 1983	Hydro	6.00	September 1, 1989	September 1, 1989	30		Standard	OR	On	35	0.1	N			
Central Oregon Irrigation District - Juniper Ridge	August 17, 2009	Hydro	5.00	August 17, 2009	August 17, 2009	20		Standard	OR	On	20	10	N			
Chevron Wyoming Wind QF	June 18, 2009	Wind	16.50	January 1, 2010	January 1, 2010	10		Non-standard	WY	On	20	1	N			
Chevron Wyoming Wind QF	Renewal	Wind	16.50	Existing	Existing		1	Non-standard	WY	On	20	1				
Chiloquin Solar	October 12, 2015	Solar	9.9	December 16, 2016		20		Standard	OR	On	20	10	N			
Chopin Wind, LLC	May 4, 2014	Wind	10.0	June 30, 2016		20		Standard	OR	On	20	10	N			
Chris Difani	April 8, 1985	-	< 0.1	April 8, 1985	April 8, 1985			Standard	OR	On	35	0.1	unknown			
City of Albany, Dept of Public Works	April 4, 2008	-	0.50	April 7, 2008	April 7, 2008	15		Standard	OR	On	20	10	N			
City of Buffalo	October 26, 1995	Hydro	0.20	May 1, 1998	May 1, 1998	20		Standard	WY	On	unknown	1	N			
City of Buffalo	Renewal	Hydro	0.20	Existing	Existing	10	1	Standard	WY	On	20	1	Y			
City of Portland, Portland Hydro Bureau	April 4, 2008	Hydro	0.03	December 1, 2011	December 1, 2011	10		Standard	OR	On	20	10	N	477		
City of Walla Walla	July 11, 1984		2.00	October 28, 1987	October 28, 1987	35		Standard	WA	On	unknown	2	N	AU		
Commercial Energy Management	November 21, 1991	Hydro	0.90	January 1, 1992	January 1, 1992	30		Standard Standard	ID	On On	5 20	unknown 3	N Y			
Cottonwood Hydro Lower	August 19, 2008	Hydro	0.85	August 25, 2008	August 25, 2008	5	1		UT			3	I			
Cottonwood Hydro Lower	Renewal	Hydro	0.85	Existing	Existing		1	Standard Standard	UT	On On	20	_				
Cottonwood Hydro Lower Cottonwood Hydro Upper	Renewal	Hydro Hydro	0.85 0.26	Existing December 14, 2011	Existing December 14, 2011	5	I	Standard Standard	UT UT	On	20	3	N			
Curtiss Livestock (Cameron Curtis)	August 28, 2008 January 1, 1984	-	0.26	December 14, 2011 January 1, 1984	January 1, 1984	30		Standard Standard	OR	On	20	10	N N			

Attach REC 4.1.xlsx Page 1 of 6

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Dernyter Dairy Renewal Biogas 1.20	Existing Exi	,	Standard	OR O	On or Off On	Maximum Contract Term (Years) 20 20 20 20 20 20 20 20 20 5 5 5 5 5 5	Standard Contract Threshold (MW unless noted) 10 10 10 10 10 10 10 10 10 2 2 2 2 2 2	N N N Y Y Y Y Y Y N N N N N N N N N N N	Status (S=Shutdown, AU= Selling to Another Utility)
Plant Name	Existing Exi	(Years) (Ye	Standard	OR O	On O	Term (Years) 20 20 20 20 20 20 20 20 20 20 20 20 5 5 5 5	Threshold (MW unless noted) 10 10 10 10 10 10 10 10 10 10 10 2 2 2 2	N N N Y Y Y Y Y N N N N N N Unknown N N Unknown	AU= Selling to Another Utility)
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Curris Livestock (Cameron Curris) Renewal Hydro 0.08	Existing	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Standard	OR O	On O	20 20 20 20 20 20 20 20 20 20 5 5 5 5 5	10 10 10 10 10 10 10 10 10 10 2 2 2 2 2	N Y Y Y Y Y Y N N N unknown N N	S
Curiss Livestock (Cameron Curtis) Renewal Hydro 0.08	Existing	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Standard	OR WA WA WA WA WA OR	On O	20 20 20 20 20 20 20 20 5 5 5 5 5 5 5 20 20 20 20 20 20 20 20 20 20 20 20 20	10 10 10 10 10 10 10 10 10 2 2 2 2 2 2 2	N Y Y Y Y Y Y N N N unknown N N	S
Curties Livestock (Cameron Curtis) Renewal Hydro 0.08 Existing	Existing	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Standard	OR WA WA WA WA WA OR	On O	20 20 20 20 20 20 5 5 5 5 5 5 5 20 20 20 20 20 20 20 20 20 20 20 20 20	10 10 10 10 10 10 10 10 2 2 2 2 2 2 2 0.1 3 0.1 10 10 10 10 10 10 10 0.1 11 10 0.1 3 3 3 3 3 3	N Y Y Y Y Y Y N N N unknown N N	S
Cartiss Livestock (Cameron Curtis) Renewal Hydro 0.08 Existing	Existing	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Standard	OR OR OR OR OR OR OR OR WA WA WA WA WA OR	On O	20 20 20 20 20 5 5 5 5 5 5 5 20 20 20 20 20 20 20 20 20 20 20 20 20	10 10 10 10 10 10 10 2 2 2 2 2 2 2 0.1 3 0.1 10 10 10 10 10 10 0.1 10 0.1 3 3 3 3 3 3	N Y Y Y Y Y Y N N N unknown N N	S
Curtiss Livestock (Cameron Curtis) Renewal Hydro 0.08 Existing	Existing Existing Existing 20 31, 2006	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Standard	OR OR OR OR OR WA WA WA WA WA WA OR UT OR OR OR OR UT OR	On O	20 20 20 20 5 5 5 5 5 5 5 5 20 20 20 20 20 20 20 20 20 20 20 20 20	10 10 10 10 2 2 2 2 2 2 2 0.1 3 0.1 10 10 10 10 10 10 10 0.1 10 0.1 3 3 3 3 3 3	N Y Y Y Y Y Y N N N unknown N N	S
Curtiss Livestock (Cameron Curtis)	Existing 20 31, 2006 5 Existing	1 1 1 1 0.5	Standard	OR OR OR WA WA WA WA WA WA OR UT OR OR OR OR UT OR	On O	20 20 5 5 5 5 5 5 5 5 5 20 20 20 20 20 20 20 20 20 20 20 20 20	10 10 2 2 2 2 2 2 2 0.1 3 0.1 10 10 10 10 10 10 10 10 0.1 10 0.1 3 3 3 3 3 3	N Y Y Y Y Y Y N N N unknown N N	S
Cypress Creek - Merrill Solar June 29, 2015 Solar 10.0 November 18, 2016 Derroyter Dairy October 31, 2006 Biogas 1.20 Cotober 31, 2006 Derroyter Dairy Renewal Biogas 1.20 Existing Deschates Valley Hydro District June 29, 1982 Hydro 4.30 November 15, 1982 Nove	20 31, 2006 5 Existing Existing Existing Existing Existing Existing Existing Existing 15, 1982 40 minated 20 1, 1984 12, 2014 20 1, 2006 5 Existing 19, 1983 25 Existing 19, 1981 14, 2004 10 Existing	1 1 1 1 0.5	Standard	OR WA WA WA WA WA WA OR UT OR OR OR OR UT OR	On O	20 5 5 5 5 5 5 5 5 5 5 20 20 20 20 20 20 35 20 35 20 20 20 20 20 20 20 20 20 20 20 20 20	10 2 2 2 2 2 2 0.1 3 0.1 10 10 10 0.1 10 0.1 10 0.1 3 3 3 3 3 3	N Y Y Y Y Y Y N N N unknown N N	S
Deruyter Dairy	81, 2006 5 Existing Existing Existing Existing Existing Existing Existing Existing 15, 1982 40 minated 20 1, 1984 12, 2014 20 1, 2006 5 Existing Existing Existing Existing Existing Existing Existing Existing 19, 1981 14, 2004 10 Existing Existing Existing Existing Existing Existing Existing 19, 1981 Existing	5 3 1 1 1 1	Standard	WA WA WA WA WA WA WA OR UT OR OR OR OR OR UT	On O	5 5 5 5 5 5 5 35 20 35 20 20 20 20 20 35 20 20 20 35 20 20 20 20 35 20 20 20 20 20 20 20 20 20 20 20 20 20	2 2 2 2 2 2 0.1 3 0.1 10 10 10 0.1 10 0.1 10 0.1 3 3 3	N Y Y Y Y Y Y N N N unknown N N	S
Dernyter Dairy	Existing Existing Existing Existing Existing Existing Existing Existing 15, 1982	5 3 1 1 1 1	Standard Standard Standard Standard Standard Standard Standard Non-standard Standard	WA WA WA WA WA OR UT OR OR OR OR OR UT	On O	5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 2 2 2 2 0.1 3 0.1 10 10 10 0.1 10 0.1 10 0.1 3 3 3	Y Y Y Y Y N N N unknown N N	S
Deruyter Dairy	Existing Existing Existing Existing Existing Existing 15, 1982 40 minated 20 1, 1984 12, 2014 20 1, 2006 5 Existing Existing Existing Existing Existing 19, 1981 14, 2004 10 Existing	5 3 1 1 1 1	Standard	WA WA WA WA OR UT OR OR OR OR OR OR UT	On O	5 5 5 5 5 35 20 35 20 20 20 20 20 35 20 35 20 20 20 20 20 20 20 20 20 20 20 20 20	2 2 2 0.1 3 0.1 10 10 10 0.1 10 0.1 3 3 3 3	Y Y Y Y Y N N N unknown N N	S
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Deruyter Dairy	Existing Existing Existing 15, 1982	5 3 1 15	Standard Standard Standard Non-standard Standard	WA WA OR UT OR OR OR OR OR OR OR UT UT UT UT UT UT UT UT UT OR	On O	5 5 35 20 35 20 20 20 20 35 20 35 20 20 35 20 20 20 20 20 20 20 20 20 20	2 0.1 3 0.1 10 10 10 0.1 10 0.1 3 3 3 3	Y Y N N N unknown N N unknown	S
Dernyter Dairy	Existing 15, 1982 40 minated 20 1, 1984 12, 2014 20 1, 2006 5 Existing Existing Existing 19, 1981 14, 2004 10 Existing	5 3 1 3 2 15	Standard Standard Non-standard Standard	WA OR UT OR OR OR OR OR OR OR UT UT UT UT UT UT UT OR	On O	5 35 20 35 20 20 20 20 20 35 20 35 20 20 20 20 20 20 20 20 20 20	0.1 3 0.1 10 10 10 10 0.1 10 0.1 3 3 3	N N unknown N N N unknown	S
Deschutes Valley Hydro District June 29, 1982 Hydro 4.30 November 15, 1982 November 15, 1982 Desert Power September 24, 2004 Natural Gas 95.00 January 1, 2006 January 1, 2006 January 1, 1984 Hydro 4.01 January 1, 1984 Janu Dorena Hydro April 28, 2011 Hydro 6.10 December 1, 2012 December 2, 2013 Hydro 6.10 December 1, 2012 December 2, 2013 December 2, 2015 August 1, 2006 Aug	15, 1982 40 minated 20 1, 1984 12, 2014 20 1, 2006 5 Existing Existing 29, 1983 25 Existing 19, 1981 14, 2004 10 Existing	5 3 1 3 2 15	Standard Non-standard Standard	OR	On O	35 20 35 20 20 20 20 20 35 20 35 20 20 20 20 20	0.1 3 0.1 10 10 10 10 0.1 10 0.1 3 3 3	N N unknown N N N unknown	S
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Diamond Fruit Growers, Inc	1, 1984 12, 2014 20 1, 2006 5 Existing Existing 29, 1983 25 Existing 19, 1981 14, 2004 10 Existing	3 1 3 2 15	Standard	OR OR OR OR OR OR OR UT UT UT UT ID OR	On O	35 20 20 20 20 20 35 20 35 20 20 20 20 20 20	10 10 10 10 0.1 10 0.1 3 3 3 3	N N N unknown	S
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Douglas Country Forest Products August 1, 2006 Biomass 6.25 August 1, 2006 August 1, 2006 Douglas Country Forest Products Renewal Biomass 6.25 Existing	1, 2006 5 Existing Existing 29, 1983 25 Existing 19, 1981 14, 2004 10 Existing Existing Existing Existing Existing Existing 2, 1986 40 23, 1985 20 Existing	3 1 3 2 15	Standard	OR OR OR OR OR OR UT UT UT UT UT OR	On O	20 20 20 35 20 35 20 20 20 20 20 unknown	10 10 0.1 10 0.1 3 3 3 3	N unknown	S
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Douglas Country Forest Products	29, 1983 25 Existing 19, 1981 14, 2004 10 Existing Existing Existing Existing 2, 1986 40 23, 1985 20 Existing	3 2 15	Standard	OR OR OR UT UT UT UT ID OR	On	35 20 35 20 20 20 20 20 unknown	0.1 10 0.1 3 3 3 3	unknown	S
DR Johnson Renewal Biomass 7.50 Existing Dr. Oliver Scott February 19, 1981 Wind <0.1	Existing 19, 1981 14, 2004 10 Existing Existing Existing 2, 1986 40 23, 1985 20 Existing	3 2 15	Standard	OR OR UT UT UT UT ID OR	On	20 35 20 20 20 20 20 unknown	10 0.1 3 3 3 3	unknown	S
Dr. Oliver Scott	19, 1981 14, 2004 10 Existing Existing Existing 2, 1986 40 23, 1985 20 Existing	3 2 15	Standard	OR UT UT UT UT ID OR	On On On On On On On On On	35 20 20 20 20 20 20 unknown	0.1 3 3 3 3		
Draper Irrigation Company October 14, 2004 Hydro O.51 October 14, 2004 Ortober 24, 2018 Ortober 24, 2019 Ortobe	14, 2004 10 Existing Existing Existing 2, 1986 40 23, 1985 20 Existing	1	Standard Standard Standard Standard Standard Standard Standard Standard Standard	UT UT UT UT ID OR	On On On On On On On	20 20 20 20 20 unknown	3 3 3 3		
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Draper Irrigation Company	Existing Existing 2, 1986 40 23, 1985 20 Existing	1	Standard Standard Standard Standard Standard	UT UT ID OR	On On On	20 20 unknown	3		
Draper Irrigation Company Renewal Hydro 0.51 Existing	Existing 22, 1986 40 23, 1985 20 Existing	15	Standard Standard Standard Standard	UT ID OR	On On	20 unknown	3		
Dry Creek May 2, 1986 Hydro 4.00 May 2, 1986 N Duane Wiggins May 23, 1985 Hydro < 0.1	22, 1986 40 23, 1985 20 Existing	1	Standard Standard Standard	ID OR	On	unknown	_		
Duane Wiggins May 23, 1985 Hydro < 0.1 May 23, 1985 May Duane Wiggins Renewal Hydro < 0.1	23, 1985 20 Existing	1	Standard Standard	OR			1		
Duane Wiggins Renewal Duane Wiggins Hydro Sensor Co.1 Existing Duane Wiggins Renewal Pydro Suane Wiggins Co.1 Existing Duane Wiggins Renewal Pydro Suane Wiggins Co.1 Existing Duane Wiggins Renewal Hydro Suane Wiggins O.02 Existing Eagle Point Irrigation District (Nichols Gap) September 28, 1983 Hydro Suane Wiggins O.72 September 28, 1983 September 17, 1982 Wind <0.1	Existing	1 1	Standard		On		unknown	N	
Duane Wiggins Renewal Hydro < 0.1 Existing Duane Wiggins Renewal Hydro < 0.1	-	1		OD		35	0.1	N	S
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Duane Wiggins Renewal Hydro < 0.1 Existing Duane Wiggins Renewal Hydro 0.02 Existing Eagle Point Irrigation District (Nichols Gap) September 28, 1983 Hydro 0.72 September 28, 1983 Septembe Eagle Ridge Ranch September 17, 1982 Wind < 0.1	Existing		Standard	OR	On	20	10		
Duane Wiggins Renewal Hydro 0.02 Existing Eagle Point Irrigation District (Nichols Gap) September 28, 1983 Hydro 0.72 September 28, 1983 September 17, 1982 September 30, 2017 Septe	Existing	1	Standard	OR	On	20	10		
Eagle Point Irrigation District (Nichols Gap) September 28, 1983 Hydro 0.72 September 28, 1983 September 17, 1982 Wind < 0.1 September 17, 1982 September 28, 1983 September 17, 1982 September 18, 2013 April 17, 2013 Maril 18, 2013	Existing	1	Standard	OR	On	20	10		
Eagle Ridge Ranch September 17, 1982 Wind < 0.1 September 17, 1982 Septembe Bay - Solar eBay - Solar October 24, 2012 Solar 0.52 April 1, 2013 April EBD Hydro (Apple) EBD Hydro (Apple) April 6, 2012 Hydro 2.99 April 15, 2013 April Edwards Benshoof Edwards Benshoof Renewall Wind < 0.1	Existing	1	Standard	OR	On	20	10		
eBay - Solar October 24, 2012 Solar 0.52 April 1, 2013 April EBD Hydro (Apple) EBD Hydro (Apple) April 6, 2012 Hydro 2.99 April 15, 2013 April Edwards Benshoof Edwards Benshoof Renewall Wind < 0.1			Standard	OR	On	35	0.1	N	
EBD Hydro (Apple) April 6, 2012 Hydro 2.99 April 15, 2013 April 6, 2012 Hydro 2.99 April 15, 2013 April 6, 2012 May 22, 1985 Wind < 0.1 May 22, 1985 May 22, 1985 <td></td> <td></td> <td>Standard</td> <td>OR</td> <td>On</td> <td>35</td> <td>0.1</td> <td>unknown</td> <td></td>			Standard	OR	On	35	0.1	unknown	
Edwards Benshoof May 22, 1985 Wind < 0.1 May 22, 1985 Mage Edwards Benshoof Renewal Wind < 0.1	1, 2013 10		Standard	UT	On	20	3	N	
Edwards Benshoof Renewal Wind < 0.1 Existing Edwards Benshoof Renewal Wind < 0.1			Standard	OR OR	On	20 35	10	N	
Edwards Benshoof Renewal Wind < 0.1 Existing Elbe Solar Center, LLC August 7, 2014 Solar 10.0 April 30, 2017 Enterprise Solar LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar I LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 Janu Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 Janu	22, 1985		Standard	OR OR	On		0.1	unknown	
Elbe Solar Center, LLC August 7, 2014 Solar 10.0 April 30, 2017 Enterprise Solar LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar I LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 Janu Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 Janu	Existing Existing		Standard	OR OR	On	35 35	0.1		
Enterprise Solar LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar I LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar II LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 January 2, 2007 Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 January 1, 2007	Existing 20		Standard Standard	OR	On On	20	10	N	
Escalante Solar I LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar II LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 January 2, 2007 Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 January 1, 2007	20		Non-standard	UT	On	20	3	N N	
Escalante Solar II LLC June 12, 2014 Solar 80.0 October 31, 2016 Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 January 2, 2007 Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 January 1, 2007	20		Non-standard	UT	On	20	3	N	
Escalante Solar III LLC June 12, 2014 Solar 80.0 October 31, 2016 Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 January 2, 2007 Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 January 1, 2007	20		Non-standard	UT	On	20	3	N	
Evergreen BioPower March 13, 2006 Biomass 10.00 January 2, 2007 January 2, 2007 Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 January 1, 2007	20		Non-standard	UT	On	20	3	N	
Ewanua Solar 2 LLC June 5, 2015 Solar 2.9 November 30, 2017 Ewauna Solar LLC August 8, 2014 Solar 0.8 September 30, 2015 December 30, 2015 ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 January 1, 2007	2, 2007 10		Standard	OR	On	20	10	N	
ExxonMobil Production Company February 21, 2005 Natural Gas 107.40 January 1, 2007 Janu	20		Standard	OR	On	20	10	N	
	31, 2015 20		Standard	OR	On	20	10	N	
ExxonMobil Production Company Renewal Natural Gas 107.40 Existing	1, 2007 3		Non-standard	WY	On	20	1	N	
	Existing	3	Non-standard	WY	On	20	1		
ExxonMobil Production Company Renewal Natural Gas 107.40 Existing	Existing	3	Non-standard	WY	On	20	1		
	29, 1986 40		Standard	OR	On	35	0.1	N	
			Standard	OR	Off	20	10	N	
	29, 2012 10	-	Standard	OR	On	35	0.1	N	
Farmers Irrigation Renewal Hydro 4.15 Existing	29, 2012 10 29, 1983 25	20	Standard	OR	On	20	10	2.	
Fiddler's Canyon 1 May 29, 2013 Solar 3.0 May 30, 2015 Novemb	29, 2012 10 29, 1983 25 Existing		Standard	UT	On	20	3	N N	
	29, 2012 10 29, 1983 25 Existing 25, 2015 20		Standard	UT	On	20	3	N N	
	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20		Standard Standard	UT OR	On Off	20	10	N N	
	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 23, 2015 20			ID	On			N N	
Firth March 3, 1994 CHP 9.90 January 1, 1996 Foote Creek II June 15, 2014 Wind 1.80 Existing	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 23, 2015 20 24, 2007 10		* Tondord		On	unknown 20	unknown 1	Y	
Foote Creek III August 5, 2014 Wind 1.80 Existing August 5, 2014 Wind 24.80 Existing	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 23, 2015 20 24, 2007 10 rminated		Standard Non-standard	WV	Oil		1	Y	
	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 23, 2015 20 24, 2007 10 minated Existing 10		Non-standard	WY WY		/ / / / /	· · · · · · · · · · · · · · · · · · ·	N N	
	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 223, 2015 20 24, 2007 10 minated Existing 10 Existing 10		Non-standard Non-standard	WY	On	20	10	1,	
Galesville Dam (Douglas County) September 1, 1982 Hydro 1.80 September 1, 1982 Septem	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 223, 2015 20 24, 2007 10		Non-standard Non-standard Standard	WY OR	On On	20	10 10		
Garland Canal (Shoshone) April 4, 1995 Hydro 3.00 April 15, 1995	29, 2012 10 29, 1983 25 Existing 25, 2015 20 25, 2015 20 223, 2015 20 24, 2007 10 minated Existing 10 Existing 10 1, 2009 20 1, 2009 20		Non-standard Non-standard	WY	On		10 10 0.1	N N	

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Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	1	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to
General Chemical (Now Tata Chemicals)	September 15, 1989	CHP	(MW)) 16.00	September 15, 1989	September 15, 1989	20		Non-standard	WY	On	unknown	1	Y	Another Utility)
General Chemical (Now Tata Chemicals) General Chemical (Now Tata Chemicals)	April 25, 2014	CHP	16.00	Existing	Existing	20	5	Non-standard	WY	On	20	1	Y	
Georgetown Power	July 2, 1984		0.33	July 2, 1984	July 2, 1984	40	<u> </u>	Standard	ID	On	unknown	unknown	N	
Granite Mountain East	April 6, 2015	Solar	80.0	October 31, 2016	tary 2, 150.	20		Non-standard	UT	On	20	3	N	
Granite Mountain West	April 6, 2015	Solar	50.4	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Granite Peak	October 18, 2013	Solar	3.0	July 31, 2015	August 21, 2015	20		Standard	UT	On	20	3	N	
Greenville	June 4, 2013	Solar	2.2	July 31, 2015	October 29, 2015	20		Standard	UT	On	20	3	N	
GroPro, Inc.	February 28, 2011	Biomass	0.01	March 1, 2011	March 1, 2011	3		Standard	CA	On	10	100 kW	N	
High Plateau Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	20		Standard	OR	On	20	10	N	
Hill Air Force Base	January 10, 2005	Biogas	2.46	January 10, 2005	January 10, 2005	20		Standard	UT	On	20	3	N	
Hurn-Lynch	July 28, 2003	Wind	0.65	July 28, 2003	Terminated	20		Standard	OR	On	20	10	N	S
Ingram Warm Springs Ranch	March 5, 1986	Hydro	0.95	March 14, 1986	March 14, 1986	40		Standard	ID	On	unknown	unknown	N	
International Paper (Weyerhaeuser)	December 18, 2006		45.00	Existing	Existing	5		Non-standard	OR	On	20	10	Y	S
Iron Springs Solar	April 6, 2015	Solar	80.0	October 31, 2016	1.7.001	20		Standard	UT	On	20	3	N	
J Bar 9 Ranch	August 15, 2011	Wind	0.10	August 15, 2011	August 15, 2011	10		Standard	WY	On	unknown	1	N	
James A Reese	November 25, 1981	Wind	< 0.1	November 25, 1981	November 25, 1981	20		Standard	OR OR	On	35	35	unknown	
James Boyd	April 22, 1983	Hydro	1.10	January 1, 1984	January 1, 1984	20		Standard	OR	On	35	0.1	N	- C
James Boyd	Amended	Hydro	1.10	Existing	Terminated	5		Standard	OR	On	35	0.1	1	S
Jay Schurger Jim & Sharon Jans (Odell Creek)	July 30, 1982	Hydro	< 0.1 0.23	July 30, 1982	July 30, 1982	20		Standard Standard	OR OR	On On	35	0.1	unknown	
Jim & Sharon Jans (Odell Creek) Jim & Sharon Jans (Odell Creek)	December 28, 2010 Renewal	Hydro Hydro	0.23	January 1, 2011 Existing	January 1, 2011 Existing	20		Standard Standard	OR OR	On	20	10	N	
,	May 2, 1983	Hydro	< 0.1	May 2, 1983	May 2, 1983	, 20		Standard	OR	On	35	0.1	unknown	
John S Foggy Joseph	July 30, 1982	Hydro	7.00	January 1, 1993	January 1, 1993	30		Standard	OR OR	On	20	0.1	N	
Joseph	Amended	-	7.00	Existing	Terminated	30		Standard	OR	On	20	0.1	IN IN	S
Kennecott Refinery	January 7, 2011	Waste Heat	7.54	January 7, 2011	January 7, 2011	3		Standard	UT	On	20	3	N	3
Kennecott Refinery	Renewal		7.54	Existing	Existing	,	1	Standard	UT	On	20	3	14	
Kennecott Refinery	Renewal		7.54	Existing	Existing	,	1	Standard	UT	On	20	3		
Kennecott Smelter	September 22, 2004		31.80	October 1, 2004	October 1, 2004	3	1	Non-standard	UT	On	20	3	Y	
Kennecott Smelter	Renewal		31.80	Existing	Existing	,	1	Non-standard	UT	On	20	3	1	
Kennecott Smelter	Renewal		31.80	Existing	Existing	r	1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal		31.80	Existing	Existing	r	1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal		31.80	Existing	Existing	,	1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal		31.80	Existing	Existing	r	1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal		31.80	Existing	Existing	r	1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal		31.80	Existing	Existing	,	1	Non-standard	UT	On	20	3		
Kenneth R Smith	September 10, 1985	Hydro	< 0.1	September 10, 1985	September 10, 1985			Standard	OR	On	35	0.1	unknown	
Kenneth R Smith	Unknown	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Lacomb Irrigation (CHI)	October 28, 1982	Hydro	0.96	January 1, 1984	January 1, 1984	36		Standard	OR	On	35	0.1	N	
Lacomb Irrigation (Lacomb PPA Renegotiated)	June 19, 1998	Hydro	0.96	Existing	Existing		20	Standard	OR	On	35	0.1	Y	
Laho #1	October 18, 2013	Solar	3.0	July 31, 2015	July 14, 2015	20		Standard	UT	On	20	3	N	
Lake Siskiyou (Box Canyon)	March 14, 1983	Hydro	5.00	March 14, 1983	March 14, 1983	30		Standard	CA	On	unknown	100 kW	N	
Lakeview Power	Unknown	Biomass	25.00	January 13, 1989	Terminated	20		Non-standard	OR	On	35	0.1	N	
Latigo Wind	July 3, 2013	Wind	60.0	May 1, 2015		20		Non-standard	UT	On	20	3	N	
Leslie Ormsby	June 8, 1985		< 0.1	June 8, 1985	June 8, 1985			Standard	OR	On	35	0.1	unknown	
Leslie Ormsby	Renewal		< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Leslie Ormsby	Renewal		< 0.1	Existing	Existing	5		Standard	OR	On	35	0.1		
Leslie Ormsby	Renewal		< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Leslie Ormsby	Renewal	-	< 0.1	Existing	Existing	20		Standard	OR	On	35	0.1) T	
Lower Ridge Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	20		Standard	OR	On Off	20	10 -MW	N	
Lower Valley Energy	May 13, 2009		1.70	July 16, 2009	July 16, 2009	10		Standard	ID			10 aMW	N	
Loyd Fery Loyd Fery	June 28, 1985 Renewal		0.04	June 28, 1985 Existing	June 28, 1985 Existing	25	1	Standard Standard	OR OR	On On	35 20	0.1	N	
Loyd Fery Loyd Fery	Renewal	-	0.04	Existing	Existing Existing		1	Standard Standard	OR OR	On	20	10		
Loyd Fery Loyd Fery	Renewal	-	0.04	Existing	Existing		1	Standard	OR	On	20	10		
Loyd Fery	Renewal		0.04	Existing	Existing	r	1	Standard	OR	On	20	10		
Loyd Fery	June 15, 2015		0.04	Existing	Existing		1	Standard	OR	On	30	10		
Luckey, Paul	April 27, 1983		0.05	April 27, 1983	April 27, 1983	30	•	Standard	CA	On	unknown	100 kW	N	
Magnesium Corporation of America	May 16, 2002			January 1, 2005	January 1, 2005	5		Non-standard	UT	On	20	3	N	
Magnesium Corporation of America		Natural Gas	36.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Magnesium Corporation of America	Renewal			Existing	Existing		1	Non-standard	UT	On	20	3		
Magnesium Corporation of America	Renewal	Natural Gas	36.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Manderfield	May 29, 2013	Solar	2.1	October 15, 2015	Terminated	20		Standard	UT	On	20	3	N	
Mariah Wind	April 1, 2014	Wind	10.0	September 1, 2015		20		Standard	OR	Off	20	10	N	
Marsh Valley Hydro & Electric Company	November 21, 1986	Hydro	1.70	November 21, 1986	November 21, 1986	40		Standard	ID	On	unknown	unknown	N	
Max Kruse	June 24, 1985		< 0.1	June 24, 1985	June 24, 1985			Standard	OR	On	35	0.1	unknown	
Max Kruse	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Max Kruse	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Meadow Creek Project Company - Five Pine	January 4, 2012	Wind	40.00	December 22, 2012	December 22, 2012	20		Non-standard	ID	On	20	10 aMW	N	
Meadow Creek Project Company - North Point	January 4, 2012	Wind	80.00	December 11, 2012	December 11, 2012	20		Non-standard	ID	On	20	10 aMW	N	
Merilyn Coe	January 1, 1984	Hydro	< 0.1	January 1, 1984	January 1, 1984			Standard	OR	On	35	0.1	unknown	

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Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to
			(MW))	9 1 20 1000	9 1 99 100	20		9 1 1			0.5	, ,		Another Utility)
Middlefork Irrigation District Middlefork Irrigation District (renewal)	June 29, 1983	Hydro	3.70	September 29, 1983	September 29, 1983 Existing	20	20	Standard Standard	OR OR	On	35	0.1	N	
Milford 2	June 29, 2006 April 4, 2014	Hydro Solar	3.0	Existing October 15, 2015	December 21, 2015	20	20	Standard	UT	On On	20	3	N	
Milford Flat	October 18, 2013	Solar	3.0	July 31, 2015	July 23, 2015	40		Standard	UT	On	20	3	N	
Mink Creek Hydro	May 21, 1985	Hydro	2.70	May 21, 1985	May 21, 1985	5 40		Standard	ID	On	unknown	unknown	N	
Monroe Hydro (Apple)	April 9, 2012	Hydro	0.3	April 1, 2015	April 1, 2015	10		Standard	OR	On	20	10	N	
Mountain Energy	June 17, 1985	Hydro	0.05	June 17, 1985	June 17, 1985	25		Standard	OR	On	35	0.1	N	
Mountain Energy	Renewal	Hydro	0.05	Existing	Existing		1	Standard	OR	On	20	10		
Mountain Energy	Renewal		0.05	Existing	Existing		1	Standard	OR OR	On	20	10		
Mountain Energy Mountain Energy	Renewal November 29, 2007	Hydro Hydro	0.05	Existing Existing	Existing Existing		1	Standard Standard	OR ID	On On	20	10 unknown		
Mountain Wind 1	July 14, 2006	-	60.90	July 2, 2008	July 2, 2008	3 20	1	Non-standard	WY	On	20	ulikilowii 1	N	
Mountain Wind 2	July 23, 2006		79.80	September 29, 2008	September 29, 2008	8 20		Non-standard	WY	On	20	1	N	
Mule Hollow Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	1 20		Standard	OR	On	20	10	N	
Nicholson Sunnybar Ranch	June 27, 1985	Hydro	0.35	June 27, 1985	June 27, 1985	40		Standard	OR	On	35	0.1	N	
Nicolette and Randall Harvey	May 21, 1984	Wind	< 0.1	May 21, 1984	May 21, 1984			Standard	OR	On	35	0.1	unknown	
Norwest Energy 12 LLC (Falvey)	May 29, 2015	Solar	8.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 2 LLC (Neff)	May 29, 2015	Solar	9.9	December 31, 2016		20		Standard	OR OR	On	20	10	N	
Norwest Energy 4 LLC (Bonanza) Norwest Energy 5 LLC (Arlington)	May 29, 2015 June 29, 2015	Solar Solar	3.0	December 31, 2016 December 31, 2016		20 20		Standard Standard	OR OR	On On	20	10	N N	
Norwest Energy 7 LLC (Armigton) Norwest Energy 7 LLC (Eagle Point)	May 29, 2015	Solar	9.9	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 9 LLC (Pendleton)	June 29, 2015	Solar	6.6	November 18, 2016		20		Standard	OR	On	20	10	N	
O.J. Power Company	March 4, 1986	Hydro	0.26	March 4, 1986	March 4, 1986	5 40		Standard	ID	On	unknown	unknown	N	
Obsidian Renewables LLC - Beatty Solar	August 18, 2014	Solar	5.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Obsidian Renewables LLC - Black Cap Solar II	July 30, 2014	Solar	8.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Obsidian Renewables LLC - Ivory Pine Solar	July 30, 2014	Solar	10.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Obsidian Renewables LLC - Sprague River Solar	July 30, 2015	Solar	7.0	December 31, 2016		20 15		Standard	OR OR	On	20	10	N	
OM Power I OR Solar 1 (Sprague River Solar)	April 11, 2012 June 11, 2015	Geothermal Solar	10.00	November 2, 2013 November 1, 2016		20		Standard Standard	OR OR	On On	20	10	N N	
OR Solar 2 (Agate Bay Solar)	June 11, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 3 (Turkey Hill Solar)	June 11, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 4 (Bly Solar)	June 17, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 5 (Merrill)	June 17, 2015	Solar	8.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 6 (Lakeview)	June 17, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 7 (Jacksonville)	June 17, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 8 (Dairy) Oregon Environmental Industries	June 11, 2015 August 16, 2006	Solar Biogas	10.0 3.20	November 1, 2016 September 7, 2007	September 7, 2007	20 20		Standard Standard	OR OR	On On	20	10	N N	
Oregon Institute of Technology	August 10, 2000 April 9, 2010	Geothermal	0.28	April 15, 2010	April 9, 2010	20		Standard	OR	On	20	10	Y	
Oregon State University	November 23, 2010	Natural Gas	_	January 15, 2011	December 14, 2010	10		Standard	OR	On	20	10	N	
Oregon Trail Windfarm LLC	December 19, 2008	Wind	9.90	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Orem Family Wind	April 1, 2014	Wind	10.0	September 1, 2015		20		Standard	OR	Off	20	10	N	
OSLH - Collier Solar	June 29, 2015	Solar	9.9	November 18, 2016		20		Standard	OR	On	20	10	N	
Pacific Canyon Windfarm LLC	December 19, 2008	Wind	8.25	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Pancheri Pavant Solar	March 1, 1983 April 11, 2014	Hydro Solar	0.08 50.0	March 1, 1983 December 31, 2015	March 1, 1983	30 20		Standard Standard	ID UT	On On	unknown 20	unknown	N N	
Pavant Solar II LLC	March 25, 2015		50.0	December 1, 2016		20		Standard	UT	On	20	3	N	
Pine City Windfarm LLC	November 18, 2011		10.00	September 1, 2012	Terminated	20		Standard	OR	On	20	10	N	
Pioneer Wind I LLC	October 18, 2010		49.50	December 31, 2011	Terminated	20		Non-standard	WY	On	20	1	N	
Pioneer Wind II LLC	October 18, 2010	Wind	49.50	December 31, 2012	Terminated	20		Non-standard	WY	On	20	1	N	
Pioneer Wind Park I LLC	April 11, 2014		80.00	June 30, 2016		20		Non-standard	WY	On	20	1	N	
Power County Wind Park North	August 18, 2010		22.50	December 23, 2011	December 23, 2011	20		Standard	ID	On	20	10 aMW	N	
Power County Wind Park South	August 18, 2010		22.50	December 23, 2011	December 23, 2011	20		Standard	ID	On	20	10 aMW	N	
Preston City Hydro Ouail Mountain	February 24, 1982 December 15, 2004	-	0.40	February 24, 1982 December 15, 2004	February 24, 1982 December 15, 2004	40		Standard Standard	ID OR	On On	unknown 20	unknown 10	N N	
Quichapa 1	October 29, 2013		3.0	May 30, 2016	December 13, 2004	20		Standard	UT	On	20	3	N N	
Quichapa 2	October 29, 2013	Solar	3.0	June 30, 2016		20		Standard	UT	On	20	3	N	
Quichapa 3	October 29, 2013	Solar	3.0	July 29, 2016		20		Standard	UT	On	20	3	N	
Ralph Counts	March 26, 1980		< 0.1	March 26, 1980	March 26, 1980			Standard	OR	On	35	0.1	unknown	
Ralphs Ranch, Inc	August 9, 1982	-	0.10	August 9, 1982	August 9, 1982	30		Standard	CA	On	unknown	100 kW	N	
Ralphs Ranches	Renewal	-	0.10	Existing	Existing		1	Standard	CA	On	10	100 kW	.,	
RES Ag- Oak Lea	November 29, 2009		0.17 0.85	December 5, 2011	December 5, 2011	10 20		Standard Standard	OR OR	On	20	10	N N	
REW-Rickreall Richard G Webb	November 29, 2005 June 12, 1985		< 0.1	November 29, 2005 June 12, 1985	Terminated June 12, 1985	Δ0		Standard Standard	OR OR	On On	35	0.1	unknown	
Iniciand O 11000		LIYUIO	_		Existing			Standard	OR	On	35	0.1	ulikilowii	
		Hydro	< 0.1					Standard	OK	Oli	33	0.1		
Richard G Webb	Renewal	Hydro Wind	< 0.1	Existing July 26, 1985				Standard	OR	On	35	0.1	unknown	
Richard G Webb Richard L Roush		Wind	< 0.1 < 0.1 < 0.1	July 26, 1985 Existing	July 27, 1985 Existing			Standard Standard	OR OR	On On	35 35	0.1 0.1	unknown	
	Renewal July 26, 1985	Wind	< 0.1	July 26, 1985	July 27, 1985								unknown	
Richard G Webb Richard L Roush Richard L Roush	Renewal July 26, 1985 Renewal	Wind Wind Wind	< 0.1 < 0.1	July 26, 1985 Existing	July 27, 1985 Existing			Standard	OR OR OR	On	35 35 35	0.1 0.1 0.1	unknown	
Richard G Webb Richard L Roush Richard L Roush Richard L Roush Richard L Roush Robert Miller Robert Miller	Renewal July 26, 1985 Renewal Renewal May 30, 1985 Renewal	Wind Wind Wind Wind Wind	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	July 26, 1985 Existing Existing May 29, 1985 Existing	July 27, 1985 Existing Existing May 30, 1985 Existing			Standard Standard Standard Standard	OR OR OR OR	On On On On	35 35 35 35 35	0.1 0.1 0.1 0.1	unknown	
Richard G Webb Richard L Roush Richard L Roush Richard L Roush Robert Miller	Renewal July 26, 1985 Renewal Renewal May 30, 1985	Wind Wind Wind Wind Wind Biomass	< 0.1 < 0.1 < 0.1 < 0.1	July 26, 1985 Existing Existing May 29, 1985	July 27, 1985 Existing Existing May 30, 1985	2		Standard Standard Standard	OR OR OR	On On On	35 35 35	0.1 0.1 0.1		

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Plant Name Roseburg Forest Products - Dillard Roseburg Forest Products - Dillard Roseburg Forest Products - Weed Roseburg Forest Products - Weed	Power Purchase Agreement (PPA) Execution Date Renewal	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW	Operational (N=No, Y=Yes)	Status (S=Shutdown,
Roseburg Forest Products - Dillard Roseburg Forest Products - Weed Roseburg Forest Products - Weed	Renewal		1	Operation Date (COD)		Contract (Tears)	(rears)				Term (Tears)			
Roseburg Forest Products - Dillard Roseburg Forest Products - Weed Roseburg Forest Products - Weed		D:										unless noted)	,	AU= Selling to Another Utility)
Roseburg Forest Products - Weed Roseburg Forest Products - Weed	D 1	Biomass	20.00	Existing	Existing		1	Non-standard	OR	On	20	10	Y	
Roseburg Forest Products - Weed	Renewal	Biomass	20.00	Existing	Existing	9.5	1	Non-standard	OR	On	20	10	Y	
	November 15, 2010	Biomass	10.00	November 18, 2010	November 18, 2010	0.5	0.7	Non-standard	CA	On	10	100 kW	Y	
Daraham Fanat Dardasta Ward	Renewal	Biomass	10.00	Existing	Existing	5	0.5	Non-standard	CA	On	10	100 kW		
Roseburg Forest Products - Weed	Renewal	Biomass	10.00	Existing	Existing		0.5 0.5	Non-standard	CA	On	10	100 kW 100 kW		
Roseburg Forest Products - Weed Roseburg Forest Products - Weed	Renewal Renewal	Biomass Biomass	10.00	Existing Existing	Existing Existing		6	Non-standard Non-standard	CA CA	On On	10	100 kW		
Roseburg LFG	February 18, 2011	Biogas	1.60	June 20, 2011	June 20, 2011	20	0	Standard	OR	On	20	100 kW	N	
Rough & Ready Lumber	November 8, 2007	Biomass	1.28	November 8, 2007	November 8, 2007	5		Standard	OR	On	20	10	N N	
Rough & Ready Lumber	February 24, 2012	Biomass	1.28	Existing	Existing	,	5	Standard	OR	On	20	10	11	
Roush Hydro, Inc	January 1, 1984	Hydro	0.08	January 1, 1984	January 2, 1984	25	<u>J</u>	Standard	OR	On	35	0.1	N	
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		3	Standard	OR	On	20	10		
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Roush Hydro, Inc	June 8, 2015	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Royal Oak	January 1, 1988	Biomass	5.00	January 13, 1988	January 14, 1988	20		Standard	OR	On	35	0.1	N	S
Royal Oak	Renewal	Biomass	5.00	Existing	Existing	5		Standard	OR	On	30	10		
Russell Berard	Unknown	Hydro	< 0.1	July 26, 1985	July 27, 1985			Standard	OR	On	35	0.1	unknown	
Russell Berard	Renewal	Hydro	< 0.1	Existing	Existing	5		Standard	OR	On	35	0.1		
Sand Ranch Windfarm LLC	January 19, 2008	Wind	9.90	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Santiam Hydro Control District	September 30, 1983	Hydro	0.16	September 30, 1983	September 30, 1983	30		Standard	OR	On	35	0.1	N	
Schwendiman Single Plant LLG	March 31, 2006	Wind	20.00	March 31, 2006	Terminated	20		Standard	ID	On	not defined	10 aMW	N	
Simplot Phosphates, LLC	January 1, 2002	Waste Heat	9.50	January 1, 2007	January 1, 2007	5		Standard	WY	On	not defined	1	N N	
Siskiyou Opportunity Center Slate Creek	November 3, 2006 January 1, 1982	Biomass	0.03 4.20	November 3, 2006 January 21, 1982	November 3, 2006 October 29, 1982	5 40		Standard Standard	OR CA	On On	20 unknown	10 100 kW	N N	
South Millford	May 29, 2013	Hydro Solar	3.0	May 30, 2015	April 1, 2015	20		Standard	UT	On	20	3	N N	
Spanish Fork Wind Park 2	June 30, 2006	Wind	18.90	July 31, 2008	July 31, 2008	20		Non-standard	UT	On	20	3	N N	
Sprague Hydro (North Fork Sprague)	September 26, 1980	Hydro	0.75	September 28, 1983	September 28, 1983	8 40		Standard	OR	On	35	0.1	N	
St. Anthony	December 20, 2012	Hydro	0.50	November 30, 2013	October 11, 2014	20		Standard	ID	On	not defined	10 aMW	N	
Stahlbush Island Farms	March 19, 2009	Biogas	1.60	April 17, 2009	April 17, 2009	5		Standard	OR	On	20	10	N	
Stahlbush Island Farms (renewal)	March 19, 2011	Biogas	1.60	Existing	Existing		3	Standard	OR	On	20	10	2,	
Sunderland Dairy	September 22, 2005	Biogas	0.15	September 22, 2005	September 22, 2005	5 5	-	Standard	UT	On	20	3	N	
Sunnyside Cogeneration Associates	January 30, 1987	Waste Coal	53.00	September 1, 1993	September 1, 1993	30		Non-standard	UT	On	unknown	3	N	
Swalley Irrigation District	September 4, 2009	Hydro	0.75	November 10, 2009	November 10, 2009	20		Standard	OR	On	20	10	N	
Tesoro Refining and Marketing Company	August 27, 2004	Natural Gas	25.00	September 15, 2004	September 15, 2004	3		Non-standard	UT	On	20	3	N	
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company			25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company			25.00	Existing	Existing	5	1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company			25.00	Existing	Existing	5	1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	 		25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	 		25.00	Existing	Existing		<u>l</u>	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company			25.00	Existing	Existing	5	1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company Thayn Ranch Hydro		Natural Gas	25.00	Existing	Existing April 1, 1992	25	1	Non-standard	UT	On	20	3	N	
Three Peaks Power	April 1, 1992 August 15, 2015	_	0.48 80.0	April 1, 1992 October 31, 2016	April 1, 1992	20		Standard Non-standard	UT UT	On On	unknown 20	3	N N	
Threemile Canyon Wind I LLC	June 19, 2009	Wind	9.90	June 19, 2009	June 20, 2009	0.5		Standard	OR	On	20	10	N N	
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10	14	
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing	/	0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing	,	1	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		15	Standard	OR	On	20	10		
TMF Biofuels	February 16, 2012	Biogas	4.80	February 21, 2012	February 21, 2012	10		Standard	OR	On	20	10	N	
TGS	February 2, 1985	Hydro	0.28	February 2, 1985	February 2, 1985	20		Standard	ID	On	not defined	unknown	N	S
Tumbleweed Solar	October 12, 2015	Solar	9.9	December 16, 2016		20		Standard	OR	On	20	10	N	
Utah Red Hills Renewable Park	September 27, 2013	Solar	80.0	January 1, 2017	December 15, 2015	20		Non-standard	UT	On	20	3	N	
Vaune Dillmann	April 18, 1983	Wind	< 0.1	April 18, 1983	April 18, 1983	10		Standard	OR	On	35	0.1	unknown	
Wadeland South Dairy	December 14, 2004	Biogas	0.13	December 14, 2004	December 14, 2004	10		Standard	UT	On	20	3	N	
Wagon Trail LLC	December 19, 2008	Wind	3.30	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	4.7.7
Walla Walla, City of	July 11, 1984	Hydro	2.00	July 11, 1984	July 11, 1984	30		Standard	WA	On	unknown	2	N N	AU
Ward Butte Windfarm LLC	December 19, 2008	Wind	6.60	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
	September 25, 1989	Biomass	9.00	September 25, 1989	September 25, 1989	20		Standard Standard	OR OR	On On	35	0.1	unknown N	
Warm Springs Forest Products	M 4 2014							- scandard	UK		- 20		I IN	
Warm Springs Forest Products Warm Springs Hydro, LLC	May 4, 2014	Hydro	2.8	August 31, 2015	April 1 1004									
Warm Springs Forest Products Warm Springs Hydro, LLC Wasatch Integrated Waste Management District	April 1, 1994	Biogas	1.60	April 1, 1994	April 1, 1994	20	10	Standard	UT	On	unknown	unknown	N	
Warm Springs Forest Products Warm Springs Hydro, LLC	•	Biogas Biogas			April 1, 1994 Existing December 16, 2004		10							

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													1 48	30 / 01 /
Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
Yakima Tieton (Cowiche)	June 12, 1985	Hydro	1.47	June 12, 1985	June 12, 1985	25		Standard	WA	On	unknonwn	unknown	N	
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		2	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	June 12, 1985	Hydro	1.47	June 12, 1985	June 13, 1985	25		Standard	WA	On	unknown	unknown	N	
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		2	Standard	WA	On	5	2		

Attach REC 4.1.xlsx Page 6 of 6

REC Data Request 4.4

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify the:

- (1) amount of network transmission the company acquired to move the generation to load;
- (2) costs of the network transmission the company acquired to move the generation to load;
- (3) benefits associated with any resale of the transmission the company acquired to move the generation to load; and
- (4) additional transmission costs paid by ratepayers.

Please provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.4

- (1) The Company requests Network Resource Designation in the amount of the nameplate capacity rating (megawatts (MW)) of the qualifying facility (QF) project at the time of execution of the QF power purchase agreement (PPA). As a Designated Network Resource, the Company would utilize Network Transmission to move the QF generation output to load. Under situations when a QF has been granted Designated Network Resource status but is not generating the associated Network Transmission would still exist at the level of the Designated Network Resource. Please refer to Attachment REC 4.4.
- (2) The cost of Network Transmission for the Company to serve load is solely dependent on the level of network load and not the MW amount of Designated Network Resource.
- (3) There is no resale of Network Transmission associated with PacifiCorp Network Transmission allocations to serve retail load.
- (4) Please refer to the Company's response to subpart (2) above.

Plant Name	Power Purchase Agreement (PPA) Execution Date	Nameplate Capacity (megawatts (MW))	Scheduled Commercial Operation Date (COD)	Status	(1) Desiginated Network Resource Requested (MW)	(2) Network Transmission Cost (\$000)	(3) Network Transmission Resale (\$000)	(4) Network Transmission Cost to Ratepayers (\$000)			
Hurn-Lynch	28-Jul-03	0.70	28-Jul-03	Terminated	0.70						
REW-Rickreall	29-Nov-05	0.90	29-Nov-05	Terminated	0.90						
Desert Power	24-Sep-04	95.00	1-Jan-06	Terminated	95.00						
Schwendiman	31-Mar-06	20.00	31-Mar-06	Terminated	20.00						
Pioneer Wind I LLC	18-Oct-10	49.50	31-Dec-11	Terminated	49.50						
CBG Portland	23-Feb-12	3.00	23-Feb-12	Delayed	3.00						
High Plateau Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00						
Lower Ridge Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00						
Mule Hollow Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00	Please refer to the	e Company's response to	o REC Data Request 4.4;			
Pine City Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00	specifically subparts (2), (3) and (4)					
AG Hydro	31-Mar-12	10.00	1-Nov-12	Delayed	10.00						
Pioneer Wind II LLC	18-Oct-10	49.50	31-Dec-12	Terminated	49.50						
OM Power I	11-Apr-12	10.00	2-Nov-13	Delayed	10.00						
Blue Mountain Wind	3-Jul-13	80.00	1-May-15	Terminated	80.00						
Warm Springs Hydro, LLC	4-May-14	2.80	31-Aug-15	Delayed	2.80						
Mariah Wind	1-Apr-14	10.00	1-Sep-15	Delayed	10.00	,1					
Orem Family Wind	1-Apr-14	10.00	1-Sep-15	Delayed	10.00						
Manderfield	29-May-13	2.10	15-Oct-15	Terminated	2.10						

NOTE: Data sorted by year of qualifying facility (QF) PPA scheduled COD

Total Designated Network Resource requested for QFs not operating or constructed (MW)

Year QF PPA Executed	(MW)
2000	
2001	
2002	
2003	0.70
2004	
2005	0.90
2006	115.00
2007	
2008	
2009	
2010	
2011	49.50
2012	102.50
2013	10.00
2014	
2015	104.90
TOTAL	383.50

Attach 4.4.xlsx Page 1 of 1

REC Data Request 4.5

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify:

- (1) the amount of replacement power the company purchased;
- (2) the costs of replacement power;
- (3) any revenues or costs savings associated with not purchasing the net output (penalties paid by the QF, lower market price purchases); and
- (4) the additional power costs paid by ratepayers.

Please provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.5

The Company does not color code replacement power from each facility. The Company balances its load and resources each hour within its balancing area, completing front office transactions (FOT) or operation of its own generating assets for shortfalls or excess energy in any hour. The cost of replacement power is difficult to measure therefore calculation of qualifying facility (QF) replacement power as described in the power purchase agreement (PPA) represents a fair and equitable calculation of the cost to the Company to replace the power not provided by the QF.

Please refer to Attachment REC 4.5. The replacement power volumes and costs have been prepared consistent with the QF PPA terms and conditions. The revenues identified reflect amounts recovered from the QF. With regard to the additional power costs paid by ratepayers, please refer to the Company's response to REC Data Request 4.7.

							_		
					(1)	(2)	(3)		
Plant Name	Power Purchase Agreement (PPA) Execution Date	Nameplate Capacity (megawatts (MW))	Scheduled Commercial Operation Date (COD)	Status	Replacement Power Purchased (Megawatt- hours (MWh))	Replacement Power Cost (\$'000)	Replacement Power Benefits or Cost Savings (\$'000)		
Hurn-Lynch	28-Jul-03	0.70	28-Jul-03	Terminated	Contract price greater than	market price - no default	damages		
REW-Rickreall	29-Nov-05	0.90	29-Nov-05	Terminated	12,569	\$43			
Desert Power	24-Sep-04	95.00	1-Jan-06	Terminated	Project declared bankrupto	cy			
Schwendiman	31-Mar-06	20.00	31-Mar-06	Delayed and Terminated	95,304	\$411	\$102		
Pioneer Wind I LLC	18-Oct-10	49.50	31-Dec-11	Terminated	Contract price greater than	market price - no default	damages		
CBG Portland	23-Feb-12	3.00	23-Feb-12	Delayed	Contract price greater than market price - no delay damages to date				
High Plateau Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than market price - no default damages				
Lower Ridge Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than	market price - no default	damages		
Mule Hollow Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than	market price - no default	damages		
Pine City Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than	market price - no default	damages		
AG Hydro	31-Mar-12	10.00	1-Nov-12	Delayed	Contract price greater than	market price - no delay da	amages to date		
Pioneer Wind II LLC	18-Oct-10	49.50	31-Dec-12	Terminated	Contract price greater than	market price - no default	damages		
OM Power I	11-Apr-12	10.00	2-Nov-13	Delayed	Contract price greater than	market price - no delay da	amages to date		
Blue Mountain Wind	3-Jul-13	80.00	1-May-15	Terminated	Contract price greater than	market price - no default	damages		
Warm Springs Hydro, LLC	4-May-14	2.80	31-Aug-15	Delayed	Contract price greater than	market price - no default	damages		
Mariah Wind	1-Apr-14	10.00	1-Sep-15	Delayed	Contract price greater than	market price - no delay da	amages to date		
Orem Family Wind	1-Apr-14	10.00	1-Sep-15	Delayed	Contract price greater than	market price - no delay da	amages to date		
Manderfield	29-May-13	2.10	15-Oct-15	Terminated	Contract price greater than	market price - no default	damages		

NOTE: Data sorted by year of qualifying facility (QF) PPA scheduled COD

Summary of Replacement Power (MW)

Year QF PPA Executed	(MW)
2000	
2001	
2002	
2003	0.70
2004	
2005	0.90
2006	115.00
2007	
2008	
2009	
2010	
2011	49.50
2012	102.50
2013	10.00
2014	
2015	104.90

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Plant Name	Power Purchase Agreement (PPA) Execution Date	Nameplate Capacity (megawatts (MW))	Scheduled Commercial Operation Date (COD)	Status	Replacement Power Purchased (Megawatt- hours (MWh))	Replacement Power Cost (\$'000)	Page 3 of 3 Replacement Power Benefits or Cost Savings (\$'000)
TOTAL	383.50					-	

Attach REC 4.5.xlsx Page 2 of 2

UM 1734 / PacifiCorp January 7, 2016 REC 4th Set Data Request 4.6

REC Data Request 4.6

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify the total detriment or benefit to the company associated with each QF that did not generate or get constructed. Please provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.6

The Company objects to this request as overly broad, not reasonably calculated to lead to the discovery of admissible evidence, as requesting information not maintained by the Company in the ordinary course of business, and as requesting development of a special study. Without waiving these objections, the Company responds as follows:

The Company does not track the total detriment or benefit associated with any qualifying facility (QF) that did not generate or was not constructed except through net power costs (NPC). Please refer to the Company's response to REC Data Request 4.7.

UM 1734 / PacifiCorp January 7, 2016 REC 4th Set Data Request 4.7

REC Data Request 4.7

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify the total increase or decrease in rates to customers associated with each QF that did not generate or get constructed. Please identify all Oregon Public Utility Commission orders approving the rate increase or decrease, and provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.7

The Company objects to this request as overly broad, not reasonably calculated to lead to the discovery of admissible evidence, as requesting information not maintained by the Company in the ordinary course of business, and as requesting development of a special study. Without waiving these objections, the Company responds as follows:

Please refer to Confidential Attachment REC 4.7, which provides an estimate of the total Company net power costs (NPC) impact associated with qualifying facility (QF) generation that was included in rates but was delayed or terminated. The Company has not prepared an estimate of the rate impact to customers, but has provided the impact relative to the overall NPC in rates. Details on the treatment in rates of the two small QFs with expected online dates prior to 2006 are not readily available.

Note: despite the delayed or terminated projects identified above, recent actual QF expenses have generally exceeded the amounts included in rates. Notably, rates in calendar year 2012 did not include the Biomass One contract, as it was executed after rates were finalized.

The Public Utility Commission of Oregon (OPUC) orders approving rates for the affected rate-effective periods were as follows:

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2006 – Order 05-1050, September 28, 2005

2007 – Order 06-530, September 14, 2006

2008 – Order 07-446, October 17, 2007

2011 – Order 10-363, September 16, 2010, and Order 10-456, November 18, 2010

2012 – Order 11-435, November 4, 2011

2013 – Order 12-409, October 29, 2012

2014 – Order 13-387, October 28, 2013

2015 – Order 14-331, October 1, 2014
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The confidential attachment is designated as Protected Information under Order No. 15-259 and may only be disclosed to qualified persons as defined in that order.

ONE-PAGE SUMMARY OF JONATHAN M. WEISGALL'S STATEMENT BERKSHIRE HATHAWAY ENERGY June 4, 2015

1. Adopt the following set of PURPA modernization changes:

- a. Expand the definition of "comparable markets" that are eligible for termination of the mandatory purchase requirement to include voluntary, auction-based energy imbalance markets and other sub-hourly markets.
- b. Terminate the mandatory purchase obligation upon a state regulatory agency determination if certain conditions are met.
- c. Eliminate the presumption in FERC regulations that QFs under 20 MW do not have nondiscriminatory access to markets if certain conditions are met.
- d. Enable utilities to rebut FERC's assumption that QFs are independent for purposes of applying the 20- or 80-MW size limitations where the sites are located more than one mile apart by demonstrating that the facilities are part of a common enterprise.

2. Improve the federal transmission permitting, siting, and review processes.

- a. Create a specific timeframe for federal agency review.
- b. Transfer the DOE's Section 216(h) lead agency coordinating authority to FERC or as an alternative create a "Transmission Ombudsperson" within FERC with authority to resolve interagency conflicts, set and enforce deadlines applicable to the other agencies participating in the review of a particular project, and require that any extension requests be approved first by the Secretary who has jurisdiction over the requesting agency.

3. Encourage states to minimize cost-shifting among customers.