



House Committee on Energy and Environment  
Oregon State Capitol  
900 Court St. NE  
Salem Oregon 97301

March 22, 2021

Subject: House Bill 2021, -1 Amendment

Dear Chair Marsh, Vice-Chair Brock Smith, Vice-Chair Helm, and members of the committee,

We have gone to publicly available regulatory records to find information on the status of renewable energy projects in Oregon that are far enough along in development to enter PacifiCorp's interconnection queue and report on how many have dropped out or withdrawn.

This is only PacifiCorp's interconnection queue. There is also a queue for the Bonneville Power Administration.

You will see that, except for a pumped storage project in Klamath (which stores and recycles energy, it does produce energy) the substantial majority of recently proposed projects have dropped or withdrawn. Obsidian very much believes we should be finding a path to successful renewable energy development, and that it is very important that we do not lose this decade.

Please see attached.

Sincerely,

/s/David W Brown  
David W. Brown  
Principal and Manager

Klamath and Lake Cty

Cluster queue no	Serial queue no	Int Q status	Name (if known)	energy source	date submitted	size	location	POI	int cost	Requested COD	COD per study	IA signed?	Comments
<b>In progress:</b>													
TCS-20	Q1087			solar	11/26/18	50. MW	Lake Cty	Bullard Sub		12/31/20		n	NR/ER
	Q1192			wind	2/11/20	239. MW	Klamath Cty	Malin sub		12/31/25		n	NR
	PAC Assumes to be assigned to 2021 cluster study												
	<b>In progress subtotal:</b>												
						<b>289. MW</b>							
<b>Pac has signed an IA, but does not consider these to be part of the interconnection queue</b>													
<b>Executed, but not in service</b>													
	Q687	IA signed	Swan Lake Hydro	hydro	7/28/15	415.8 MW		Malin sub at 500 kv	\$ 250. M	12/31/22		10/19/19	Storage only, not new generation. \$230M to build new transmission lines to take the power to Portland.
	Q721	IA signed	Skysol, LLC	solar	11/14/15	55. MW	Klamath Cty	KF-Malin 230kv	\$ 10. M	6/5/17	9/30/27	6/5/17	\$8M three ring circus. No operation until Q687 is done, est. is 10 years.
	Q741	IA signed	Sparrow Solar	solar	5/6/16	40. MW	Klamath Falls	KF-Lone Pine 230 lin	\$ 10.4 M	9/1/18	9/30/27	12/6/17	\$9M three ring circus. No operation until Q687 is done, est. is 6 years.
	Q757	IA signed	Beaver State Hldgs	solar	6/10/16	20. MW	Klamath Cty	Copco 2 Y line	\$ 2.9 M	12/1/19	12/31/19	5/7/17	line tap to 69 kv line.
	Q849	IA signed	sPower	solar	2/6/17	100. MW	Klamath Cty	KF-Malin line	\$ 9.8 M	12/31/19	1/24/27	5/13/19	requires Q687 line to Albany; power can't be taken in KF
	Q825	IA signed	Blue Marmot	solar	11/21/16	10. MW	Lake Cty	Bullard Sub	\$7.1 M	11/30/19	6/1/20	10/1/19	TSR S1 said that new transformers at Warner and
	Q826	IA signed	EDP	solar	11/21/16	10. MW	Lake Cty	Bullard Sub		11/30/19	6/1/20	10/1/19	Chiloquin, and reconductoring of 115 line, would
	Q827	IA signed	EDP	solar	11/21/16	10. MW	Lake Cty	Bullard Sub		11/30/19	6/1/20	10/1/19	be required to allow all of these TSRs.
	Q829	IA signed	EDP	solar	11/21/16	10. MW	Lake Cty	Bullard Sub		11/30/19	6/1/20	10/1/19	\$8.3M for connecting to LVA ring bus; \$10.6M to Mile Hi
	Q830	IA signed	EDP	solar	11/21/16	10. MW	Lake Cty	Bullard Sub		11/30/19	6/1/20	10/1/19	\$4.5M is new transformer at Chiloquin
	Q828	IA signed	EDP	solar	11/21/16	13. MW	Lake Cty	Bullard Sub		11/30/19	6/1/20	10/1/19	Q828 is 13 MW interconnection; 2 TSRs for 13 MW.
	Q971	IA signed	Rogue Rover Holdings	solar	11/7/17	2.7 MW	Klamath Cty	Turkey Hill sub		12/15/19		6/4/20	
	<b>Executed, but not in service subtotal:</b>												
						<b>696.5 MW</b>							
<b>IA signed, Suspended:</b>													
	Q905		Fresh Air Energy II (EcoPlexus) Hamamker MTN PV1	solar	7/12/17	50. MW	Klamath Cty	Copco 2-KF line	\$ 6.8 M	12/1/19	1/1/21		NR only. Reconductor 69 kv line, requires new line to Portland
	Q906		Fresh Air Energy II - Hayden Mtn PV2-A	solar	7/12/17	80. MW	Klamath Cty	KF - Lone Pine ln	\$ 9.8 M	12/1/19	6/1/21	3/24/20	ER and NR. Ring bus on 230 kv line.
	Q907		Fresh Air Energy II - Haden Mtn PV2-B	solar	7/12/17	80. MW	Klamath Cty	KF - Lone Pine ln	\$ 3.2 M	12/1/19	6/1/21	3/24/20	ER and NR. Connects to Q906 POI at same line position.
	<b>IA signed, Suspended subtotal:</b>												
						<b>210. MW</b>							

Klamath and Lake Cty

<b>Removed: lack of progress</b>											
Q904	deactivated	Fresh Air Energy II Hayden Mountain PV1	solar		50 MW Klamath	Copco 2 - Westside Tap	\$9m				
Q915		Fresh Air Energy II - Hayden Mtn PV3-A	solar	7/28/17	80. MW Klamath Cty	Cap Jack - Merdn	\$ 32.7 M	12/1/19	12/1/23	n	ER and NR. 525 KV ring bus. NR requires new line to Portland.
Q916		Fresh Air Energy II - Hayden Mtn PV3-B	solar	7/28/17	80. MW Klamath Cty	Cap Jack - Merdn	\$ 2.3 M	12/1/19	12/1/23	n	ER requires Q915 first. NR requires new line to Portland.
Q917		Fresh Air Energy II - Hayden Mtn PV3-C	solar	7/28/17	80. MW Klamath Cty	KF co-gen - Merdn	\$ 8 M	12/1/19	12/1/23	n	ER requires Q915 first. NR requires new line to Portland.
Q1034			solar	6/5/18	60. MW Lake Cty	Alturas-MH line		11/30/20		n	NR/ER
Q1133			solar+battery	5/7/19	80. MW Klamath Cty	KF - Yamsay line		12/1/22		n	NR/ER
Q1134			solar+battery	5/7/19	120. MW Klamath Cty	KF - Yamsay line		12/1/22		n	NR/ER
Q1135			solar+battery	5/7/19	80. MW Klamath Cty	Chilq - Mile Hi		12/1/22		n	NR/ER
<b>Removed: lack of progress subtotal:</b>					<b>580. MW</b>						
<b>Deactivated: submitted after cluster cutoff date:</b>											
Q1220			solar	4/24/20	500. MW Klamath Cty	Malin sub					
Q1221			solar+battery	4/27/20	200. MW Klamath Cty	Cap Jack - Merdn					
Q1222			solar+battery	4/27/20	200. MW Klamath Cty	KF - Lone Pine ln					
<b>Deactivated: submitted after cluster cutoff date subtotal:</b>					<b>900. MW</b>						
<b>Withdrawn by customer:</b>											
Q806	IA signed	Beaver State Hldgs	solar	9/30/16	20. MW Klamath Cty	Lakeview Junction-Alturas line	\$ 3.3 M	12/31/18	12/31/19	2/5/18	
Q1062			solar	8/15/18	240. MW Klamath Cty	KF-Malin line		12/31/22		n	ER/NR
<b>Withdrawn by customer subtotal:</b>					<b>260. MW</b>						
											Note: ER = Energy Resource; NR = Network Resource
<b>Total in progress:</b>					<b>289. MW</b>						
<b>Total executed, not in service:</b>					<b>696.5 MW</b>						
<b>Total suspended, removed for lack of progress, deactivated for after cutoff submission, or withdrawn by customer:</b>					<b>1950. MW</b>						

Boardman and East of Summer Lk

Cluster no	Serial no	TSR AREF	Name (if known)	energy	submitted	size	location	POI	int cost	Req COD	COD per study	IA signed?	Comments
TCS-55	Q1219		<b>Boardman area</b>	solar+battery	4/20/20	80. MW	Gilliam	Dalreed substation		6/1/2023			
			<b>Hemingway - Summer Lake 500 kV line</b>										
<b>Withdrawn: lack of readiness</b>													
	Q718			wind	11/6/15	400. MW	Lake Cty	Burns-SL500kv	\$ 45.7 M	12/1/19	12/15/22	n	3-breakerring bus, 4 mi. 500 kV line, \$43.5M reimburs
													Affected systems study required to move ahead
	Q1029		Inenergy	solar	5/29/18	400. MW	Lake Cty	Burns-SL500kv	\$ 49.5 M	12/1/21	12/1/23	n	47.5M network upgrade incl Walla Walla cap bank repl, 2M direct assign
	Q1031			solar	5/30/18	80. MW	Harney C	Burns-SL500kv		12/1/20			
	Q1032			solar	5/30/18	80. MW	Harney C	Burns-SL500kv		12/1/20			
	Q1033			solar	5/30/18	80. MW	Harney C	Burns-SL500kv		12/1/20			
<b>Total active:</b>						<b>80. MW</b>							
<b>Total Withdrawn: lack of readiness</b>						<b>1040. MW</b>							

Bend-Redmond

Cluster no	Serial no	Name (if known)	energy	submitted	size	County	POI	int cost	Req COD	COD per study	IA signed?	Comments
<b>Active:</b>												
TCS-43	Q1161		solar+battery	9/19/19	40. MW	Crook	Ponderosa sub or Houston Lk line		5/30/22			
TCS-44	Q1162		solar+battery	9/19/19	80. MW	Crook	Ponderosa sub or Houston Lk line		5/30/22			
TCS-45	Q1163		solar+battery	9/19/19	40. MW	Crook	Baldwin Road - Ponderosa line		5/30/22			
TCS-46	Q1164		solar+battery	9/19/19	80. MW	Crook	Baldwin Road - Ponderosa line		5/30/22			
TCS-51	Q1204		solar	4/6/20	20. MW	Crook	Ponderosa sub or Baldwin road line		5/1/23			
TCS-52	Q1205		solar	4/6/20	20. MW	Crook	Ponderosa sub or Houston Lk line		5/1/23			
TCS-53	Q1206		solar	4/6/20	20. MW	Crook	Ponderosa sub or Houston Lk line		5/1/23			
TCS-54	Q1214		solar+battery	4/13/20	40. MW	Crook	Ponderosa sub or Houston Lk line		5/30/24			
All of these were delayed in studies due to large number of interconnection requests, now in cluster study.												
<b>Subtotal active:</b>					<b>340. MW</b>							
<b>Deactivated: submitted after cluster cutoff date:</b>												
	Q1208		solar+battery	4/8/20	150. MW	Crook	Ponderosa sub		12/31/2023			
	Q1213		solar+battery	4/13/20	200. MW	Crook	Ponderosa sub or Baldwin road line		5/30/24			
	Q1215		solar+battery	4/13/20	200. MW	Crook	Ponderosa sub or Houston Lk line		5/30/24			
<b>Subtotal submitted after cluster cutoff:</b>					<b>550. MW</b>							
<b>Withdrawn - lack of readiness:</b>												
	Q739		solar	4/29/16	59. MW	Crook	Baldwin road sub	\$ 4.6 M	10/1/22	10/1/22	n	New position at Baldwin Road sub
	Q1093		solar+battery	12/6/2018	600. MW	Crook	Corral sub or Ochoap Corral line		5/30/2021			
	Q1165		solar+battery	9/19/19	600. MW	Crook	Ochoaco sub or Corral Ochoaco line		1/1/24			
	Q1188		solar+battery	11/1/19	80. MW	Crook	Stearns Butte sub		12/31/2022			
<b>Subtotal Withdrawn lack of readiness:</b>					<b>1339. MW</b>							