FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production of Cogeneration Facility

	1b Applicant street address 2180 South 1300	•						
	1c City	 · · · · · · · · · · · · · · · · ·	1d State/provi	nce	-			
	Salt Lake City		Utah					
	1e Postal code 84106	1f Country (if not United States)		1g Telephone number 801–679–3500				
	1h Has the instant facility	vever previously been certified as a Q	F? Yes 🛛 N	lo 🗌	Ó			
	1i If yes, provide the docl	ket number of the last known QF filing	pertaining to th	nis facility: QF13 - 581 - 006	֓֟֟֓֓֓֓֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓			
•	1j Under which certificat	ion process is the applicant making th	is filing?		1			
_	Notice of self-certific (see note below)	cation A	pplication for Co e; see "Filing Fee	mmission certification (requires filing " section on page 2)				
	QF status. A notice o notice of self-certification	Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 4 for more information.						
) =	1k What type(s) of OE status is the applicant seeking for its facility? (check all that apply)							
:	Qualifying small power production facility/status							
5		11 What is the purpose and expected effective date(s) of this filing?						
) 	Original certification; facility expected to be installed by and to begin operation on							
<u>-</u>	Change(s) to a previously certified facility to be effective on 9/30/22 (identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 24)							
		change(s) below, and describe change nd/or other administrative change(s)	e(s) in the Miscell	arieous section starting on page 24)				
		-		•				
		•	production capa	city and/or cogeneration thermal output				
	- ''	Supplement or correction to a previous filing submitted on						
	(describe the supple	(describe the supplement or correction in the Miscellaneous section starting on page 24)						
	1m If any of the following three statements is true, check the box(es) that describe your situation and complete the form to the extent possible, explaining any special circumstances in the Miscellaneous section starting on page 24.							
	☐ previously granted	complies with the Commission's QF r d by the Commission in an order date ellaneous section starting on page 24	d	virtue of a waiver of certain regulations (specify any other relevant waiver	6			
		would comply with the Commission' this application is granted	s QF requiremen	ts if a petition for waiver submitted				
	employment of ur	complies with the Commission's regulative or innovative technologies not a set compliance win this form difficult	ontemplated by					

FERC Form 556

Page 7 - All Facilities

	Sean McBride	i		801–679–3506 ·				
_	2c Which of the following describes the contact person's relationship to the applicant? (check one) Applicant (self) Employee, owner or partner of applicant authorized to represent the applicant							
natior	Employee of a company affiliated with the applicant authorized to represent the applicant on this matter Lawyer, consultant, or other representative authorized to represent the applicant on this matter							
nform	2d Company or organization name (if appl	d Company or organization name (if applicant is an individual, check here and skip to line 2e)						
Contact Information								
Ŭ	2f City		2g State/provi	nce				
	2h Postal code 2i Cou	untry (if not United	States)		1			
ion	3a Facility name Eden Solar							
Locat	3b Street address (if a street address does not exist for the facility, check here and skip to line 3c) 2252 Derby Road							
on and	places). Use the following formula to conve	3c Geographic coordinates: Specify the latitude and longitude coordinates of the facility in degrees (to three decimal places). Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 5 for help.						
y Identification and Location	Latitude <u>35.149</u> degrees No	orth (+)	Longitude	79.636 degrees West (-)				
lity lo	3d City (if unincorporated, check here and Jackson Springs	enter nearest city) [- '	ovince arolina	7			
Facility	3f County (or check here for independent o	ity) 🗌 3g	Country (if not					
	Identify the electric utilities that are contemplated to transact with the facility.							
ilities	4a Identify utility interconnecting with the facility Duke Energy							
ng Ut	4b Identify utilities providing wheeling serv	4b Identify utilities providing wheeling service or check here if none						
Transacting Utilities	4c Identify utilities purchasing the useful el Duke Energy	ectric power outpu	t or check here if	none				
Trar	4d Identify utilities providing supplementa service or check here if none ⊠	ry power, backup p	ower, maintenan	ce power, and/or interruptible power	0			

·	5a Direct ownership as of effective date or operation date: Identify all direct owners of the percent equity interest. For each identified owner, also (1) indicate whether that own defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company Act of 2005 (42 U.S.C. 16451(8)), and (2 utilities or holding companies, provide the percentage of equity interest in the facility direct owners hold at least 10 percent equity interest in the facility, then provide the retwo direct owners with the largest equity interest in the facility.	er is an electric utilit pany, as defined in : for owners which a held by that owner	ry, as section re electric . If no
	Full legal names of direct owners	Electric utility or holding company	If Yes, % equity interest
	1) Eden Solar, LLC	Yes No	100%
	2)	Yes □ No □	 9
	3)	Yes No	
	4)	Yes No	
	5)	Yes No	
	6)	Yes No	-
	7)	Yes No	 -
_	8)	Yes No	ૄ
<u>.</u> 0	9)	Yes 🗍 No 📗	8
rat	10)	Yes 🗌 No 📋	o
be	Check here and continue in the Miscellaneous section starting on page 24 if addi	tional space is need	ed
Ownership and Operation	of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding comp 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also percent in the facility held by such owners. (Note that, because upstream own another, total percent equity interest reported may exceed 100 percent.)	anies, as defined in a rovide the percenta	section ige of
ŏ	Check here if no such upstream owners exist.		% equity
	Full legal names of electric utility or holding company upstream owner	ers	interest
	1) FTS Eden Managing Member, LLC		100%
	2) sPower FinCo 3, LLC		100%
	3) sPower Finance 1, LLC		100%
	4) sPower Finance 1 HoldCo, LLC		8
	5) sPower OpCo A, LLC		<u>100</u> %
	6) sPower OpCo A Blocker, LLC (Owner of #5)		49 %
	7) Sustainable Power Group, LLC (Owner of #5)		51 %
	8) Sustainable Power Group Pledgor, LLC (Owner of #7) (cont.	on pg. 24)	9
	9) sPower, LLC		100 %
	10)PIP5 Lumos LLC		50%
	Check here and continue in the Miscellaneous section starting on page 24 if addit	ional space is neede	ed
	5c Identify the facility operator Eden Solar, LLC		
	1000		



		6a Describe the primary energy input: (che	ck one m	ain category an	d, if applicable, o	one subcateg	ory)		
		Biomass (specify)	⊠ P	tenewable resou	rces (specify)	☐ Geothe	ermal		
		☐ Landfill gas		☐ Hydro pow	ver - river	Fossil f	uel (specif	y)	
		Manure digester gas		☐ Hydro pov	ver - tidal		Coal (not w	aste)	
		☐ Municipal solid waste		☐ Hydro pov	ver - wave	□ 1	uel oil/die	sel	
		Sewage digester gas		⊠ Solar - pho	tovoltaic	□ !	Natural gas	(not waste)	
		☐ Wood		☐ Solar-the	rmal		Other fossi		
		Other biomass (describe on p	age 24)	☐ Wind			(describe c	n page 24)	
		Waste (specify type below in line 6b)		ewable resource on page 24)	Other	(describe o	n page 24)	
		6b If you specified "waste" as the primary	energy in	out in line 6a, in	dicate the type o	of waste fuel (ısed: (chec	k one)	
		☐ Waste fuel listed in 18 C.F.R. § 292	.202(b) (s	pecify one of the	e following)				
		☐ Anthracite culm produced p	rior to Ju	ly 23, 1985					
		Anthracite refuse that has a ash content of 45 percent o	n average r more	heat content o	f 6,000 Btu or les	ss per pound	and has a n	average	
		Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more							
4	npar	Top or bottom subbituming determined to be waste by (BLM) or that is located on r	the Unite ion-Fedei	d States Departi al or non-Indiar	ment of the Inte I lands outside o	rior's Bureau (of BLM's jurisd	of Land Ma liction, pro	inagement vidèd that	
	energy input	Coal refuse produced on Federal lands or on Indian lands that has been determined to be wa BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, prov applicant shows that the latter is an extension of that determined by BLM to be waste						este by the rided that	
Ĺ	ī	Lignite produced in associa as a result of such a mining	and lignite th	at become	s exposed				
		☐ Gaseous fuels (except natur	d synthetic gas f	gas from coal) (describe on page 24)					
		Waste natural gas from gas C.F.R. § 2.400 for waste natural compliance with 18 C.F.R. §	ural gas; i	ls (describe on particular on	page 24 how the r filing any mate	e gas meets th Prials necessar	ne requirer ry to demo	nents of 18 nstrate	
		☐ Materials that a governmer	t agency	has certified for	disposal by con	nbustion (des	cribe on p	age 24)	
		☐ Heat from exothermic reac	ions (des	cribe on page 2	4) 🗆	Residual heat	t (describe	on page 24)	
		☐ Used rubber tires ☐	Plastic r	naterials	Refinery o	ff-gas	☐ Petro	leum coke	
		Other waste energy input that ha facility industry (describe in the Mack of commercial value and exists)	Niscellane Stence in	ous section star the absence of t	ting on page 24 he qualifying fac	; include a dis cility industry	cussion of)	the fuel's	
	-	6c Provide the average energy input, calc energy inputs, and provide the related 292.202(j)). For any oil or natural gas f	percenta	ige of the total a	iverage annual 6	energy input t	e following to the facili	g fossil fuel ty (18 C.F.R. §	
				nnual average e		Percentage			
-		Fuel	i	nput for specifie		annual ener			
		Natural gas Oil-based fuels			0 Btu/h		0 %		
		Coal		1	0 Btu/h		0 %		
		Coai			0 Btu/h		0 %		

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Technical Facility Information

Indicate the maximum gross and maximum net electric power production capacity of the facility at the point(s) of delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/or losses identified in lines 7b through 7e are negligible, enter zero for those lines.

intes 7b through 7e are negligible, enter zero for those lanes.	
7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	62,000 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your	
reported parasitic station power.	o kW
7c Electrical losses in interconnection transformers	0 kW
7d Electrical losses in AC/DC conversion equipment, if any	14,300 kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	o kW
7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	14,300.0 kW
7g Maximum net power production capacity = 7a - 7f	47,700.0 kW

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 24.

The Eden Solar project consists of 203,452 305 watt Trina Solar modules, mounted on a driven post-supported RBI racking system, creating a designed DC output of approximately 62.01 MW, wired through (78) 680kW Schneider inverters, producing a designed AC output of 47.7MW (limited to 90% of nameplate capacity to meet Duke's requirement for 0.95 lagging power factor at the POI).

The qualifying facility includes all generator interconnection facilities necessary to deliver output from the facility to the interstate grid.

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Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip pages 11 through 15.

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8f below (as applicable).

Electric Generating Equipment

Electrical generating equipment will refer to all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar panels, inverters, fuel cell equipment and/or other primary power generation equipment used in the facility, excluding equipment for gathering energy to be used in the facility. Each wind turbine on a wind farm and each solar panel in a solar facility is considered electrical generating equipment because each wind turbine and each solar panel is independently capable of producing electric energy.

Distance

The distance between two facilities is to be measured from the edge of the closest electrical generating equipment for which qualification or recertification is sought to the edge of the nearest electrical generating equipment of the other affiliated small power production qualifying facility using the same energy resource. An affiliated small power production QF located one mile or less from the instant facility is irrebuttably presumed to be at the same site. An affiliated small power production QF located more than one mile and less than 10 miles from the instant facility is rebuttably presumed to be at a separate site. An affiliated small power production QF located 10 miles or more from the instant facility-is irrebuttably presumed to be located at a separate site.

8a Identify affiliated small power production QFs located less than 10 miles from the electrical generating equipment of the instant facility that use the same energy resource and are held (with at least a 5 percent equity interest) by any of the entities identified in lines 5a or 5b or their affiliates. Specify the latitude and longitude coordinates for both the applicant and the affiliate small power production QF based on the nearest electrical generating equipment for each facility. Report coordinates in degrees (to three decimal places) as a positive number for east and north or a negative number for west and south. Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 5 for help obtaining coordinates. The distances for each facility listed below will be automatically calculated from the reported coordinates. See www.ferc.gov/QF for more information on how this form calculates distance.

Check here if no such facilities exist.

	Facility location (city or county, state)	Root docket # (if any)	Maximum net power production capacity	Common owner(s)
		QF	kW	
	Coordinates (in degrees) and Dista	ance (miles):	,	
1)	Closest electrical generating equi	pment for applicant's	s facility:	
	Latitude Choose +	/- Longitude	Choose +/-	
	Closest electrical generating equi		acility: Choose +/-	Distance miles





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	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity QF - kW	Common owner(s)
	Coordinates (in degrees) and Distance (miles):	
2)	Closest electrical generating equipment for applicant's facility:	· · · · · · · · · · · · · · · · · · ·
ľ	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
	Latitude Choose +/- Longitude Choose +/-	Distance o miles
_	Latitude Longitude Longitude	
	Facility location Root docket # Maximum net power	
	(city or county, state) (if any) production capacity QF - kW	Common owner(s)
3)	Coordinates (in degrees) and Distance (miles):	
ردا	Closest electrical generating equipment for applicant's facility: Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
	Latitude Choose +/- Longitude Choose +/-	0 miles
	Facility location Root docket # Maximum net power	•
	(city or county, state) (if any) production capacity	Common owner(s)
	QFkW	
	Coordinates (in degrees) and Distance (miles):	
4)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
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	Latitude Choose +/- Longitude Choose +/-	<u>0</u> miles
		0 miles
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	O miles Common owner(s)
	Facility location Root docket # Maximum net power	
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	
5)	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity QF - kW Coordinates (in degrees) and Distance (miles): Closest electrical generating equipment for applicant's facility:	
5)	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity QF - kW Coordinates (in degrees) and Distance (miles):	
5)	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity QF - kW Coordinates (in degrees) and Distance (miles): Closest electrical generating equipment for applicant's facility:	

	Continued			
	Facility location (city or county, state)	Root docket # (if any) QF -	Maximum net power production capacity kW	Common owner(s)
	Coordinates (in degrees) and	Distance (miles):		
6)	Closest electrical generating	equipment for applicant	's facility:	
	Latitude Choo			
	Closest electrical generating	equipment for affiliate's	facility:	Distance
	LatitudeChoo	se +/- !Longitude	Choose +/-	0 miles
	Facility location (city or county, state)		Maximum net power production capacity	Common owner(s)
		QF	kW	
	Coordinates (in degrees) and	Distance (miles):		
7)	Closest electrical generating		's facility:	
		ose +/- Longitude		
	Closest electrical generating	equipment for affiliate's	facility:	Distance
	LatitudeChoo	ose +/- Longitude	Choose +/-	0miles
	Facility location	Root docket # (if any)	•	Common owner(s)
	(city or county, state)			
		QF	kW	Common owner(s)
8)	Coordinates (in degrees) and	QF Distance (miles):	kW	
8)	Coordinates (in degrees) and	QF	kW 's facility:	
8)	Coordinates (in degrees) and Closest electrical generating Latitude Choo	QF Distance (miles): equipment for applicant ose +/- Longitude	's facility: Choose +/-	
8)	Closest electrical generating Latitude Choo	QF	's facility: Choose +/- facility:	Distance
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8)	Closest electrical generating Latitude Choo	QF - Distance (miles): equipment for applicant cose +/- Longitude equipment for affiliate's cose +/- Longitude Root docket # (if any)	choose +/- facility: Choose +/- Maximum net power production capacity	Distance
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		Facility location (city or county, state)	Root docket # (If any)	Maximum net power production capacity kW	Common owner(s)
		Coordinates (in degrees) and Dista	ance (miles):		
	10)	Closest electrical generating equip		's facility:	
		Latitude Choose +/		Choose +/-	
ਰਿ		Closest electrical generating equip		facility:	Distance
inue			-/- Longitude _	Choose +/-	0 miles
s (cont		Check here and continue in the Mi the calculator below below to calc	liscellaneous sectior culate distances bas	n starting on page 24 if add ed on facility coordinates.	litional space is needed. Use
Compliance with Size Limitations (continued	pov deg Use deg coo	tance Calculator Specify the latitude wer production QF based on the near grees (to three decimal places) as a per the following formula to convert to grees + (minutes/60) + (seconds/360) ordinates. The distances for each factoridinates. See www.ferc.gov/QF for the distances for each factoridinates.	arest electrical gene positive number for o decimal degrees fi 00). See the "Geogra cility listed below wi	rating equipment for each east and north or a negative rom degrees, minutes and aphic Coordinates" section ill be automatically calculate	facility. Report coordinates in ve number for west and south. seconds: decimal degrees = on page 5 for help obtaining ted from the reported
e wit		Closest electrical generating equipr	ment for applicant's	facility (degrees):	
ianc		Latitude Choose +,	-/- Longitude _	Choose +/-	
ldmo		Closest electrical generating equipr	ment for affiliate's fa	acility (degrees):	Distance
<u> </u>		Latitude Choose +	-/- Longitude	Choose +/-	<u>0</u> miles
Certification o	Pui mil bel fac che coi int mo sys che sar ma	You have the option below to assewer production QFs using the same dditional space is needed, continue rsuant to 18 C.F.R. § 292.204(a)(2)(i)(i) be but less than 10 miles apart there low are examples of the factors that illities that are owned by the same paracteristics, including such common notical facilities, access and easements erconnection to the distribution or to tive force or fuel source, off-take are stems, common permitting and land caracteristics, including such characte me person(s) or affiliated persons(s), me electric utility, using common de anaging a power sales agreement exalifying facility (continued next page	e energy resource me in the Miscellaneou (C), if affiliated small e is a rebuttable pres t the Commission m person(s) or its affilia on characteristics as: ts, interconnection a transmission system trangements, conne d leasing, and shared eristics as whether t operated and mair ebt or equity financi ecuted within 12 m	ore than one mile but less to section starting on page power producer qualifying tumption that they are at so ay consider in deciding whates are located "at the sam infrastructure, property or greements, interconnection, collector systems or facilitations to the electrical gridd step-up transformers; and he facilities in question are stained by the same or affilling, constructed by the same	than 10 miles from your facility. 24. g facilities are more than one eparate sites. The factors listed bether small power production where site. (1) physical whership, property leases, on facilities up to the point of ities, points of interconnection, evidence of shared control d (2) ownership/other: owned or controlled by the lated entity (ies), selling to the ne entity within 12 months,

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	8b Continued
ntinued)	(continued from previous page) in the same location, placed into service within 12 months of an affiliated small power production QF project's commercial operation date as specified in the power sales agreement, or sharing engineering or procurement contracts.
Certification of Compliance with Size Limitations (continued	
liance with S	
of Comp	8c The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? Yes (continue at line 8d below) No (skip lines 8d through 8f)
ation c	Yes (continue at line 8d below) No (skip lines 8d through 8f) 8d Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes No
rtific	8e Did construction of the facility commence on or before December 31, 1999? Yes No
၂ဗ	8f If you answered No in line 8e, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No
	If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 24 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility.
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.
of C Rec	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:
ion Use	Applicant certifies that the facility will use fossil fuels exclusively for the purposes listed above.
icat uel	9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:
Certif vith F	Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.



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Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 16 through 18. Otherwise, skip pages 16 through 18.

	energy (such as heat or suse of energy. Pursuant cycle cogeneration facilit thermal application or pr 292.205(a); or (2) for a boapplication or process fo	eneration technology does the facility represent? (check all that apply) cogeneration Bottoming-cycle cogeneration
	other requirements balance diagram de meet certain require	the the sequential operation of the cogeneration process, and to support compliance with such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and ements, as described below. You must check next to the description of each requirement tyou have complied with these requirements.
	Check to certify compliance with indicated requirement	Requirement
ration r		Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
gene		Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.
General Cogeneration Information		Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.
ien(Diagram must specify average gross electric output in kW or MW for each generator.
		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 24, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		Diagram must specify working fluid flow conditions at make-up water inputs.

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	the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.	
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	C
	11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No	(
ی به	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.	
ntal Us acilitie:	11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?	Q.
ner n Fa	Yes (continue at line 11d below)	
⁻ undar eratio	No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.	
for Fogen	11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?	(
ments rom Co	Yes. Provide in the Miscellaneous section starting on page 24 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.	
Act 2005 Requirements for Fundamental Use Energy Output from Cogeneration Facilities	No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.	
)5 F y O	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	
:t 20(Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	
EPAc of Ei	No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.	
	11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?	4
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.	İ
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.	

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Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

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18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2).

11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal	
generation plant losses and parasitic loads) expected to be used annually for industrial,	
commercial, residential or institutional purposes and not sold to an electric utility	MWh
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be	
sold to an electric utility	 <u>, MWh</u>
11i Percentage of total annual energy output expected to be used for industrial,	•
commercial, residential or institutional purposes and not sold to a utility	
= 100 * 11g /(11g + 11h)	0 %

11j Is the response in line 11i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 24 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. See Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the

relevant annual standard, taking into account expected variations in production conditions.



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Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 19 and 20. Otherwise, skip pages 19 and 20.

12a	Identify and describe each then	mal host, and specify the annual average rate of t nosts with multiple uses of thermal output, provid	nermal output made availab e the data for each use <i>in</i>
	Name of entity (thermal host) taking thermal output	[†] Thermal host's relationship to facility; Thermal host's use of thermal output	Average annual rate of thermal output attributable to use (net heat contained in proce return or make-up wate
1)		Select thermal host's relationship to facility	
1)		Select thermal host's use of thermal output	Btu
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5)		Select thermal host's use of thermal output	Btu
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6)		Select thermal host's use of thermal output	Btu

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 24.

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☐ No (does not comply with efficiency standard)

equal to 42.5%:

Yes (complies with efficiency standard)

orm 556	Page 20 -	Topping-Cycle Cogeneration Facilities
Applicants for facilities representing topp cycle operating standard and, if applicable regulations (18 C.F.R. § 292.205(a)(1)) estathe useful thermal energy output must be (18 C.F.R. § 292.205(a)(2)) establishes the installation commenced on or after March thermal energy output must (A) be no less facility; and (B) if the useful thermal energy be no less than 45 percent of the total encompliance with the topping-cycle operations are exempt from the efficiency standard base 131 below.	le, efficiency standard. Section 292.20 ablishes the operating standard for to be no less than 5 percent of the total efficiency standard for topping-cycle h 13, 1980: the useful power output of the total energy output is less than 42.5 percent of the total energy input of natural gas and oil to the total and/or efficiency standards, or the total energy input of efficiency standards, or the total energy input of the total energy i	05(a)(1) of the Commission's opping-cycle cogeneration facilities: energy output. Section 292.205(a)(2) e cogeneration facilities for which of the facility plus one-half the useful gy input of natural gas and oil to the ne total energy output of the facility, ne facility. To demonstrate to demonstrate that your facility is
If you indicated in line 10a that your facilitechnology, then respond to lines 13a the attributable to the topping-cycle portion which mass and energy flow values and scogeneration system. 13a Indicate the annual average rate of to the host(s), net of any heat contained in the line of the lin	rough 131 below considering only the n of your facility. Your mass and heat system components are for which po useful thermal energy output made a in condensate return or make-up wat	e energy inputs and outputs balance diagram must make clear rtion (topping or bottoming) of the
13b Indicate the annual average rate of 13c Multiply line 13b by 3,412 to conver	100000000000000000000000000000000000000	kW 0 Btu/h
13d Indicate the annual average rate of of the shaft of a prime mover for purpose (this value is usually zero)	mechanical energy output taken dire es not directly related to power produ	ectly off
13e Multiply line 13d by 2,544 to conve	- Annual in the second representation of the second	0 Btu/h
13f Indicate the annual average rate of e	<u> </u>	Btu/h
13g Topping-cycle operating value = 10		0 %
13h Topping-cycle efficiency value = 10		0 %
13i Compliance with operating standard Yes (complies with operating st		e 13g greater than or equal to 5%? comply with operating standard)
13j Did installation of the facility in its cu		
Yes. Your facility is subject to the compliance with the efficiency re	e efficiency requirements of 18 C.F.R. equirement by responding to line 13 the efficiency standard. Skip lines 13	§ 292.205(a)(2). Demonstrate k or 13l, as applicable, below.
13k Compliance with efficiency standar than 15%, then indicate below whether	d (for low operating value): If the op the efficiency value shown in line 13l	erating value shown in line 13g is less n greater than or equal to 45%:
Yes (complies with efficiency s		comply with efficiency standard)

Information Required for Bottoming Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 21 and 22. Otherwise, skip pages 21 and 22.

to the ite	to the items on pages 21 and 22. Ottierwise, skip pages 21 and 22.						
	The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualifying bottoming-cycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below.						
	14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in						
	separate rows. Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production		Thermal host's relationship to facility; Thermal host's process type	Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 24)			
	1)		Select thermal host's relationship to facility	Yes 🗍 No 🗍			
			Select thermal host's process type				
l e			Select thermal host's relationship to facility	Yes No 🗍			
Š			Select thermal host's process type Select thermal host's relationship to facility				
t t	3)		Select thermal host's process type	Yes No			
omir rtpu	Check here and continue in the Miscellaneous section starting on page 24 if additional space is ne						
Usefulness of Bottoming-Cycle Thermal Output	14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section						
	sta	rting on page 24.	•				
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No (does not comply with efficiency standard)

than or equal to 45%:

Yes (complies with efficiency standard)

rm 556	Page 22 - Bottoming-Cycle Cogeneration Facilities				
March 13, 1990 must demonstrate compliand the Commission's regulations (18 C.F.R. § 292 cogeneration facilities: the useful power out of natural gas and oil for supplementary firing	ming-cycle technology and for which installation commenced on or after note with the bottoming-cycle efficiency standards. Section 292.205(b) of 92.205(b) establishes the efficiency standard for bottoming-cycle utbut of the facility must be no less than 45 percent of the energy input ing. To demonstrate compliance with the bottoming-cycle efficiency that your facility is exempt from this standard based on the date that o lines 15a through 15h below.				
If you indicated in line 10a that your facility is technology, then respond to lines 15a throug attributable to the bottoming-cycle portion of which mass and energy flow values and syste (topping or bottoming).	gh 15h below considering only the energy of your facility. Your mass and heat baland	r inputs and outputs ce diagram must make clear			
with the efficiency requirement by re	nt form commence on or after March 13, iciency requirement of 18 C.F.R. § 292.205 esponding to lines 15b through 15h below efficiency standard. Skip the rest of page	(b). Demonstrate compliance v.			
15b Indicate the annual average rate of net	electrical energy output	kW			
15c Multiply line 15b by 3,412 to convert fro	m kW to Btu/h				
15d Indicate the annual average rate of med of the shaft of a prime mover for purposes no (this value is usually zero).	chanical energy output taken directly off of ot directly related to power production	hp			
15e Multiply line 15d by 2,544 to convert from	om hp to Btu/h	0 Btu/h			
15f Indicate the annual average rate of suppor oil	plementary energy input from natural gas	Btu/h			
15g Bottoming-cycle efficiency value = 100	* (15c + 15e) / 15f				

15h Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater

Commission Staff Use Only:

Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

Signer id	lentified below cer	tifies the following	: (check'a	all items and	applicable subitems)

signer identified below certifies the follov	ving: (check;all items and applicable subitems)				
	or she has read the filing, including any information contained in any attached documents, such as cogeneration ass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 24, and pass its contents.				
He or she has provided all of the requesto to the best of his or her knowledge as	He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.				
He or she possess full power and auti Practice and Procedure (18 C.F.R. § 38	nority to sign the filing; as required by Rule 2005(35.2005(a)(3)), he or she is one of the following: ((a)(3) of the Commission's Rules of check one)			
☐ The person on whose behalf	the filing is made				
\square An officer of the corporation,	trust, association, or other organized group on b	pehalf of which the filing is made			
 An officer, agent, or employe filing is made 	An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filling is made				
A representative qualified to Practice and Procedure (18 C.	practice before the Commission under Rule 2101 F.R. § 385.2101) and who possesses authority to	of the Commission's Rules of sign			
He or she has reviewed all automatic Miscellaneous section starting on page	calculations and agrees with their results, unless ge 24.	otherwise noted in the			
He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 4 for more information.					
Procedure (18 C.F.R. § 385.2005(c)) provid	ture date below. Rule 2005(c) of the Commission es that persons filing their documents electronic iled documents. A person filing this document e ded below.	ally may use typed characters			
Your Signature	Your address	Date			
	760 SW Ninth Ave., Suite 3000				
/s/ Jason Johns	Portland, Oregon 97205	4/2/2024			
Audit Notes		,			
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Miscellaneous

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Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to.* You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

Line 5b (continued):

sPower, LLC (#9), is also owned 50% by AES Lumos Holdings LLC, which is a wholly-owned subsidiary of AES Clean Energy Development Holdings, LLC, which in turn is a wholly-owned subsidiary of The AES Corporation. PIP5 Lumos LLC (#10) is wholly owned by Alberta Investment Management Corporation. sPower OpCo A Blocker, LLC (#6) is owned by AES Lumos Holdings, LLC (1%), PIP5 Lumos LLC (1%), Ullico Infrastructure sPower Holdco, LLC (49%), and U.S. Renewables Holdco A, LLC (49%).

Line 11: Change in upstream ownership effective September 30, 2022. Applicant files this update out of time due to an administrative oversight. Other changes include updated address in section 1b, updated contact information in Section 2d to reflect a name change in organization name, added GPS coordinates in Section 3c, and updated entries in Sections 5b and 5c.