1a Full name of apple	icant (legal entity on whose behalf qualif	ation Facility ying facility statu	is is sought for this facility)
Eden Solar, L	LC		
1b Applicant street a 2180 South 130	ddress DO East, Suite 600		Clerk's Office N.C. Utilities Commission
1c City Salt Lake City	4	1d State/prov Utah	ince
1e Postal code 84106	1f Country (if not United States)		1g Telephone number 801–679–3500
1h Has the instant fa	cility ever previously been certified as a C	∑F? Yes 🗙 M	No []
1i If yes, provide the	docket number of the last known QF filin	g pertaining to t	his facility: QF 13 - 581 - 002
Note: a notice of se QF status. A notic notice of self-cert section on page 3 1k What type(s) of QI	If-certification is a notice by the applican ce of self-certification does not establish ification to verify compliance. See the "V 8 for more information. - status is the applicant seeking for its fac power production facility status	t itself that its fac a proceeding, an What to Expect Fr ility? (check all th Qualifying cogene	ility complies with the requirements for d the Commission does not review a om the Commission After You File" nat apply) eration facility status
11 What is the purpos	e and expected effective date(s) of this f	ling?	<u> </u>
Original certifica	tion; facility expected to be installed by	a	nd to begin operation on
Change(s) to a p	reviously certified facility to be effective	on $\frac{9/29/15}{100000000000000000000000000000000000$	(
(identify type(s)	e and/or other administrative change(s)	e(s) in the Miscel	laneous section starting on page 19)
\boxtimes Change in ov	wnership		
🔀 Change(s) af	fecting plant equipment, fuel use, power	production capa	acity and/or cogeneration thermal output
Supplement or co (describe the sup	prrection to a previous filing submitted opplement or correction in the Miscellane	n ous section starti	ng on page 19)
1m If any of the follow to the extent poss	wing three statements is true, check the ible, explaining any special circumstance	oox(es) that desc es in the Miscella	ribe your situation and complete the form neous section starting on page 19.
The instant fac previously gra orders in the N	ility complies with the Commission's QF nted by the Commission in an order date fiscellaneous section starting on page 19	requirements by ed	virtue of a waiver of certain regulations (specify any other relevant waiver
The instant fac	ility would comply with the Commission /ith this application is granted	's QF requiremer	nts if a petition for waiver submitted
	ility complies with the Commission's rea	ulations, but has	special circumstances, such as the

FE	RC Form 556			Page 6 - All	Facilities
	2a Name of contact person Sean McBride		2b T 80	elephone number 1–679–3506	
nation	 2c Which of the following describes the f	he contact person's relat yee, owner or partner of d with the applicant aut resentative authorized to	onship to the applicant applicant authorized to orized to represent the represent the applicar	? (check one) represent the applicant applicant on this matter t on this matter	
lorn	2d Company or organization name (i Sustainable Power Group, L	f applicant is an individu LC	l, check here and skip t	o line 2e)	
ontact li	2e Street address (if same as Applica	nt, check here and skip to	line 3a)		
Ŭ	2f City		2g State/province		
	2h Postal code	2i Country (if not United	States)		
uo	3a Facility name Eden Solar			<u> </u>	
ion and Locati	 3b Street address (if a street address 2252 Derby Road 3c Geographic coordinates: If you in then you must specify the latitude the following formula to convert the street of the st	does not exist for the fac dicated that no street ad e and longitude coordina to decimal degrees from	lity, check here and ski dress exists for your fac tes of the facility in deg degrees, minutes and s	o to line 3c) lity by checking the box in rees (to three decimal plac econds: decimal degrees =	line 3b, es). Use
entificat	degrees + (minutes/60) + (seconc provided a street address for your East (+) Longitude	ls/3600). See the "Geog facility in line 3b, then s degrees	raphic Coordinates" sec becifying the geograph Latitude So	tion on page 4 for help. If y ic coordinates below is opt <u>rth (+)</u> uth (-) <u>deg</u> r	you ional. ees
lity ld	3d City (if unincorporated, check her	e and enter nearest city)] 3e State/provinc North Carolin	e 1a	
Faci	3f County (or check here for indepen	ident city) 🗌 3	g Country (if not Unite	d States)	
	Identify the electric utilities that are co	ontemplated to transact	vith the facility.		
lities	4a Identify utility interconnecting wi Duke Energy	th the facility		· .	
ng Uti	4b Identify utilities providing wheeling service or check here if none				
nsactir	4c Identify utilities purchasing the us Duke Energy	eful electric power outp	It or check here if none		
Trar	4d Identify utilities providing supple service or check here if none ⊠	mentary power, backup	oower, maintenance po	wer, and/or interruptible p	ower

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ς.

percent equity interest. For each identified owner, also (1) indicate whether t defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a hold 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8) utilities or holding companies, provide the percentage of equity interest in the direct owners hold at least 10 percent equity interest in the facility, then prov two direct owners with the largest equity interest in the facility.	ners of the facility he that owner is an elec ding company, as de)), and (2) for owners ne facility held by tha vide the required inf	olding at ctric utilit fined in s s which a at owner ormatior	least 10 ty, as section re electric . If no for the
utilities or holding companies, provide the percentage of equity interest in the facility held by that own direct owners hold at least 10 percent equity interest in the facility, then provide the required informat two direct owners with the largest equity interest in the facility. Electric utility on holding company 1) Eden Solar, LLC Yes No 2) Yes No Yes No 3) Yes No Yes No 4) Yes No Yes No 5) Yes No Yes No 6) Yes No Yes No 7) Yes No Yes No 8) Yes No Yes No 9) Yes No Yes No 10) Yes No Yes No		tility or ng any	lf Yes, % equity interest
1) Eden Solar, LLC			interest
2)	Yes		·
3)			
4)	Ves		
5)	Yes		
6)	Yes		<u>.</u>
7)	Yes		<u> </u>
8)	Yes		
9)	Yes		· · · · · · · · · · · · · · · · · · ·
10)			<u> </u>
5b Upstream (i.e., indirect) ownership as of effective date or operation date: Ider of the facility that both (1) hold at least 10 percent equity interest in the facilit defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holdin 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8))	ntify all upstream (i.e ty, and (2) are electri ng companies, as de)). Also provide the p	e., indirectic indirectic indirection indirection in the second s	ct) owners s, as section ge of
5b Upstream (i.e., indirect) ownership as of effective date or operation date: Ider of the facility that both (1) hold at least 10 percent equity interest in the facilit defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holdin 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8) equity interest in the facility held by such owners. (Note that, because upstre another, total percent equity interest reported may exceed 100 percent.)	ntify all upstream (i.e ty, and (2) are electri ng companies, as de)). Also provide the p am owners may be	e., indirec ic utilitie: fined in s percenta subsidiar	ct) owners s, as section ge of ries of one
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FER	RC Fo	orm 556				Page	8 - All Facilities
	6a	Describe th	ne primary energy input: (ch	neck one m	ain category and, if applicable	, one subcategory)	
		Biomas	s (specify)	R	enewable resources (specify)	Geothermal	
			andfill gas		🔲 Hydro power - river	Fossil fuel (spec	ify)
			Aanure digester gas		🔲 Hydro power - tidal	📋 Coal (not	waste)
	L.		Aunicipal solid waste		📋 Hydro power - wave	🗌 Fuel oil/d	iesel
÷.+		<u> </u>	ewage digester gas		🛛 Solar - photovoltaic	🗌 Natural g	as (not waste)
		Π ν	Vood		🔲 Solar - thermal	Other fos	sil fuel
			Other biomass (describe on	page 19)	🔲 Wind	네 (describe	on page 19)
		Waste	(specify type below in line 6	b)	Other renewable resourc (describe on page 19)	e 🔲 Other (describe	on page 19)
	6b	If you spec	ified "waste" as the primary	energy inp	out in line 6a, indicate the type	of waste fuel used: (che	eck one)
		Wast	e fuel listed in 18 C.F.R. § 29	2.202(b) (sp	pecify one of the following)		
			Anthracite culm produced	prior to Ju	y 23, 1985		
			Anthracite refuse that has ash content of 45 percent	an average or more	heat content of 6,000 Btu or le	ess per pound and has a	in average
	-		Bituminous coal refuse tha average ash content of 25	t has an av percent or	erage heat content of 9,500 Bt more	u per pound or less and	l has an
			Top or bottom subbitumir	ious coal pi	oduced on Federal lands or or	n Indian lands that has b	been
٦t			determined to be waste by	the United	d States Department of the Int	erior's Bureau of Land M	Management
Inpl			(BLM) of that is located on the applicant shows that the	he latter co	al is an extension of that deter	mined by BLM to be wa	iste
nergy			Coal refuse produced on F BLM or that is located on n applicant shows that the la	ederal land on- Federa atter is an e	s or on Indian lands that has b I or non-Indian lands outside c xtension of that determined b	een determined to be v of BLM's jurisdiction, pro y BLM to be waste	vaste by the ovided that
ш			Lignite produced in associ as a result of such a mining	ation with 1 9 operation	the production of montan wax	and lignite that becom	es exposed
			Gaseous fuels (except natu	ıral gas anc	l synthetic gas from coal) (des	cribe on page 19)	
			Waste natural gas from ga C.F.R. § 2.400 for waste nat compliance with 18 C F R	s or oil well tural gas; in 8 2 400)	s (describe on page 19 how th clude with your filing any mat	e gas meets the require erials necessary to dem	ements of 18 onstrate
-			Materials that a governme	nt agency ł	has certified for disposal by co	mbustion (describe on	page 19)
			Heat from exothermic read	tions (desc	ribe on page 19)	Residual heat (describ	e on page 19)
	,		Used rubber tires] Plastic m	aterials 🗌 Refinery d	off-gas 🗌 Petr	oleum coke
		Otho	wate energy input that h		a commercial value and evicto	in the abcance of the c	walifying
		facilit	ty industry (describe in the	Miscellaneo	bus section starting on page 19	9; include a discussion o	of the fuel's
		lack	of commercial value and ex	istence in t	he absence of the qualifying fa	cility industry)	
	6c	Provide the	e average energy input, calc outs, and provide the related	ulated on a d percentad	a calendar year basis, in terms	of Btu/h for the followir energy input to the faci	ng fossil fuel lity (18 C.F.R. §
		292.202(j))	. For any oil or natural gas	fuel, use lov	ver heating value (18 C.F.R. § 2	292.202(m)).	
				Ar	nnual average energy	Percentage of total	
			Fuel	in	put for specified fuel	annual energy input	
			Oil-based fuels		0 Btu/h	0 %	
			Coal		0 Btu/h	0 %	
	,				0 Btu/h	0 %]

Page 9 - All Facilities

Indicate the maximum gross and maximum net electric power production capacity of the facility at delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and, lines 7b through 7e are negligible, enter zero for those lines.	the point(s) of /or losses identified in
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	
	0 kW
7c Electrical losses in interconnection transformers	0 k W
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	0 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 19.

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.

Technical Facility Information

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 page 10.

	Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power product with the power production capacity of any other small power production facilities that use the resource, are owned by the same person(s) or its affiliates, and are located at the same site, m megawatts. To demonstrate compliance with this size limitation, or to demonstrate that you from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Inc (Pub. L. 101-575, 104 Stat. 2834 (1990) <i>as amended by</i> Pub. L. 102-46, 105 Stat. 249 (1991)), res through 8e below (as applicable).	tion facility, together ne same energy nay not exceed 80 Ir facility is exempt entives Act of 1990 spond to lines 8a
	8a Identify any facilities with electrical generating equipment located within 1 mile of the elequipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, at least a 5 percent equity interest.	lectrical generating or their affiliates, holds
Ce	Check here if no such facilities exist. 🔀	
ipliand ions	Facility locationRoot docket #(city or county, state)(if any)Common owner(s)	Maximum net power production capacity
tati	1) QF	kW
f Co	2) QF - 3) QF -	kW
n F O	3) QF	kW
atio Siz	Check here and continue in the Miscellaneous section starting on page 19 if additional	space is needed
Certific wit	 8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incenexemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certain you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Yes (continue at line 8c below) 8c Was the original notice of self-certification or application for Commission certification of 	tives Act) provides rtified prior to 1995. Incentives Act? the facility filed on or
	before December 31, 1994? Yes No	-
	8d Did construction of the facility commence on or before December 31, 1999? Yes	No 🔲
	8e If you answered No in line 8d, indicate whether reasonable diligence was exercised towat the facility, taking into account all factors relevant to construction? Yes No If you a brief narrative explanation in the Miscellaneous section starting on page 19 of the construct particular, describe why construction started so long after the facility was certified) and the construct completion of the facility.	rd the completion of answered Yes, provide tion timeline (in filigence exercised
compliance quirements	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; cont prevention of unanticipated equipment outages; and alleviation or prevention of emergenci the public health, safety, or welfare, which would result from electric power outages. The arr used for these purposes may not exceed 25 percent of the total energy input of the facility d period beginning with the date the facility first produces electric energy or any calendar year	fuels, in minimal rol use; alleviation or es, directly affecting rount of fossil fuels uring the 12-month r thereafter.
of C Re	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:	
ion c Use	Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes liste	ed above.
cati uel	9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fu	el used annually:
Certifi vith F	Applicant certifies that the amount of fossil fuel used at the facility will not, in aggreg percent of the total energy input of the facility during the 12-month period beginnin facility first produces electric energy or any calendar year thereafter.	jate, exceed 25 g with the date the

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 11 through 13. Otherwise, skip pages 11 through 13.

Pursuant to 18 C.F.R. § 292.202(c), a cogeneration facility produces electric energy and forms of useful thermal energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes, through the sequential use of energy. Pursuant to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a toppingcycle cogeneration facility, the use of reject heat from a power production process in sufficient amounts in a thermal application or process to conform to the requirements of the operating standard contained in 18 C.F.R. § 292.205(a); or (2) for a bottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal application or process for power production. **10a** What type(s) of cogeneration technology does the facility represent? (check all that apply) Topping-cycle cogeneration Bottoming-cycle cogeneration 10b To help demonstrate the sequential operation of the cogeneration process, and to support compliance with other requirements such as the operating and efficiency standards, include with your filing a mass and heat balance diagram depicting average annual operating conditions. This diagram must include certain items and meet certain requirements, as described below. You must check next to the description of each requirement below to certify that you have complied with these requirements. Check to certify compliance with indicated requirement Requirement Diagram must show orientation within system piping and/or ducts of all prime movers, General Cogeneration heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process. Information 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. 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. 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 *liquid only* (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 19, 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.

EPAct 2005 Requirements for Fundamental Use

	EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of 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	0
	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	0
6	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.	
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?	0
L E	Yes (continue at line 11d below)	
leration	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.	
oger	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?	0
rom C	Yes. Provide in the Miscellaneous section starting on page 19 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.	
utput 1	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.	
N N	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	0
herg	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.	
of Er	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.	-10
	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?	0
	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.	
	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.	

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.

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).

and the second	and a second
11g Amount of electrical, thermal, chemical and mechanical energy output (net of interna	
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	MWh
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 19 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.

Page 14 - Topping-Cycle Cogeneration Facilities

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 14 and 15. Otherwise, skip pages 14 and 15.

The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.

12a Identify and describe each thermal host, and specify the annual average rate of thermal output made available to each host for each use. For hosts with multiple uses of thermal output, provide the data for each use *in separate rows*.

	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	thermal output attributable to use (net of heat contained in process return or make-up water)
1)		Select thermal host's relationship to facility	
	· · · · · · · · · · · · · · · · · · ·	Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
Z)	a second s	Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
2)		Select thermal host's use of thermal output	Btu/h
	,	Select thermal host's relationship to facility	
4)	····· ·	Select thermal host's use of thermal output	Btu/h
5)	· · · · · · · · · · · · · · · · · · ·	Select thermal host's relationship to facility	
5)		Select thermal host's use of thermal output	Btu/h
6)		Select thermal host's relationship to facility	
0)	·	Select thermal host's use of thermal output	Btu/h

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of thethermal 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 19.

FERC Form 556

Usefulness of Topping-Cycle

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Page 15 - Topping-Cycle Cogeneration Facilities

		<u>.</u>
Applicants for facilities representing topping-cycle technology must demonstrate com cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle the useful thermal energy output must be no less than 5 percent of the total energy of (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogener installation commenced on or after March 13, 1980: the useful power output of the fact thermal energy output must (A) be no less than 42.5 percent of the total energy input facility; and (B) if the useful thermal energy output is less than 15 percent of the total e be no less than 45 percent of the total energy input of natural gas and oil to the facility compliance with the topping-cycle operating and/or efficiency standards, or to demor exempt from the efficiency standard based on the date that installation commenced, r 13l below.	Appliance with the topping- of the Commission's ycle cogeneration facilities: utput. Section 292.205(a)(2) ration facilities for which cility plus one-half the useful of natural gas and oil to the nergy output of the facility, . To demonstrate instrate that your facility is respond to lines 13a through	0
If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottom technology, then respond to lines 13a through 13l below considering only the energy attributable to the topping-cycle portion of your facility. Your mass and heat balance of which mass and energy flow values and system components are for which portion (top cogeneration system.	ing-cycle cogeneration inputs and outputs diagram must make clear oping or bottoming) of the	
13a Indicate the annual average rate of useful thermal energy output made available		
to the host(s), net of any heat contained in condensate return or make-up water	Btu/h	
13D Indicate the annual average rate of net electrical energy output	kW	
13c Multiply line 13b by 3,412 to convert from kW to Btu/h		0
13d Indicate the annual average rate of machanical energy output taken directly off	0 Btu/h	10000000
of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)	hn	
13e Multiply line 13d by 2,544 to convert from hp to Btu/h		<i></i>
	∩ Btu/h	Ø
13f Indicate the annual average rate of energy input from natural gas and oil	Btu/h	
13g Topping-cycle operating value = $100 \times 13a / (13a + 13c + 13e)$	0 %	Æ
13h Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	○ 0/	V
12i Compliance with operating standard. Is the operating value shown in line 12g ave	eter then or equal to E0/2	
131 Compliance with operating standard: is the operating value shown in line 13g gre	ater than or equal to 5%?	
Yes (complies with operating standard)	th operating standard)	
13j Did installation of the facility in its current form commence on or after March 13, 1	980?	0
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205 compliance with the efficiency requirement by responding to line 13k or 13l, a	5(a)(2). Demonstrate s applicable, below.	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.		
13k Compliance with efficiency standard (for low operating value): If the operating value than 15%, then indicate below whether the efficiency value shown in line 13h greater t	lue shown in line 13g is less han or equal to 45%:	
Yes (complies with efficiency standard) No (does not comply with	th efficiency standard)	
13I Compliance with efficiency standard (for high operating value): If the operating value greater than or equal to 15%, then indicate below whether the efficiency value shown equal to 42.5%:	lue shown in line 13g is in line 13h is greater than or	
Yes (complies with efficiency standard) No (does not comply with	th efficiency standard)	
	Applicants for facilities representing topping-cycle technology must demonstrate com cycle operating standard and, if applicable, efficiency standard. Section 29.2.05(a)(1), regulations (18 C.F.R. § 292.205(a)(1)) establishes the oplerating standard for topping-cycle cogenetinstallation commenced on or after March 13, 1980: the useful thermal energy output must be no less than 4.2.5 percent of the total energy input facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy input facility; and (B) if the useful thermal energy notput is less than 15 percent of the total energy input facility; and (B) if the useful thermal energy notput is less than 15 percent of the total energy input facility; and (B) if the useful thermal energy notput of natural gas and oil to the facility compliance with the topping-cycle operating and/or efficiency standards, or to demore exempt from the efficiency standard based on the date that installation commenced or 131 below. If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottom technology, then respond to lines 13a through 131 below considering only the energy attributable to the topping-cycle portion of your facility. Your mass and heat balance which mass and energy flow values and system components are for which portion (or cogeneration system. 13a Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) 13b Indicate the annual average rate of energy input from natural gas and oil 13f Indicate the annual average rate of energy input from natural gas and oil 13g Topping-cycle operating value = 100 * (13a + 13c + 13e) / 13f 13g Compliance with	Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard A. Section 292.205(a)(1) of the Commission's regulations (12 CFL § 292.205(a)(1) establishes the operating standard for topping-cycle operation facilities in the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) establishes the operating standard for topping-cycle operating as and oil to the facility, and (8) if the useful thermal energy output at al. 42 percent of the total energy output ages and oil to the facility, and (8) if the useful thermal energy output of natural gas and oil to the facility, and (8) if the useful thermal energy output of natural gas and oil to the facility, and (8) if the useful thermal energy output of natural gas and oil to the facility, and (8) if the useful thermal energy output of factory standard, or to demonstrate that your facility is exempt from the efficiency standard or efficiency standard, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13 below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and heat balance diagram must make clear which the standard are drag rate of mechanical energy output taken directly off of the hand a varage rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) 13d Indicate the annual average rate of mechanical energy output taken directly off of the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)<

Yes 🗍

No

FERC Form 556

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 16 and 17. Otherwise, skip pages 16 and 17.

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	the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)
1)	· · · · · · · · · · · · · · · · · · ·	Select thermal host's relationship to facility	Yes No No
1)		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No T
2)		Select thermal host's process type	kunnend :

Select thermal host's relationship to facility

Usefulness of Bottoming-Cycle Thermal Output

3)

Select thermal host's process type

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 starting on page 19.

Bottoming-Cycle Operating and

Page 17 - Bottoming-Cycle Cogeneration Facilities

Applicants for facilities representing bottoming-cycle technology and for which installation commenced on or after March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standards. Section 292.205(b) of the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard for bottoming-cycle cogeneration facilities: the useful power output of the facility must be no less than 45 percent of the energy input of natural gas and oil for supplementary firing. To demonstrate compliance with the bottoming-cycle efficiency standard (if applicable), or to demonstrate that your facility is exempt from this standard based on the date that installation of the facility began, respond to lines 15a through 15h below.

If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).

15a Did installation of the facility in its current form commence on or after March 13, 1 — Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292,205(980? b). Demons	strate co	molia
with the efficiency requirement by responding to lines 15b through 15h below			
No. Your facility is exempt from the efficiency standard. Skip the rest of page 1	7.		
15b Indicate the annual average rate of net electrical energy output			kV
15c Multiply line 15b by 3,412 to convert from kW to Btu/h			0 Bt
15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero).			t.
15e Multiply line 15d by 2,544 to convert from hp to Btu/h		<u></u>	n
15f Indicate the annual average rate of supplementary energy input from natural gas or oil	· · · · · · · · · · · · · · · · · · ·		Bt
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f		· · ·	0 %
15h Compliance with efficiency standard: Indicate below whether the efficiency value than or equal to 45%:	shown in li	ne 15g i	s grea

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 identified below certifies the following: (check all items and applicable subitems)

He or she has read the filing, including any information contained in any attached documents, such as cogeneration mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

 \bowtie 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 authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

The person on whose behalf the filing is made

An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made

A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign

He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

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 3 for more information.

Provide your signature, address and signature date below. Rule 2005(c) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(c)) provides that persons filing their documents electronically may use typed characters representing his or her name to sign the filed documents. A person filing this document electronically should sign (by typing his or her name) in the space provided below.

Your Signature	Your address	Date
n de la companya de l La companya de la comp	900 SW Fifth Avenue, Suite 2600	.
Chad Marriott	Portland, OR 97204	09/29/2015

Audit Notes

Commission Staff Use Only:

Miscellaneous

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.

On April 6, 2015, Sustainable Power Group, LLC ("SPG") acquired Eden Solar, LLC, the direct owner of the facility listed in Line 5a, from FLS Energy, Inc. Applicant is making this filing to correct certain information in the previous filing in this docket, to update contact information to be consistent with the new upstream ownership, and to accurately describe the direct and upstream ownership of the facility as of the date of this filing.

Lines 1b-1g: Applicant's address and phone number have been updated consistent with the new upstream ownership.

Lines 2a-2d: Applicant's contact information has been updated consistent with the new upstream ownership.

Line 5b: The upstream ownership of Eden Solar, LLC is as follows: (1) 100% of the membership interests in Eden Solar are held by FTS Eden Managing Member, LLC ("FTS Eden"); (2) 100% of the membership interests in FTS Eden are held by sPower FinCo 3 LLC ("FinCo 3"); (3) 100% of the membership interests in FinCo 3 are held by SPG; and (4) 100% of the membership interests in SPG are held by FTP Power LLC ("FTP"). Entities above FTP Power LLC are investors in FTP Power LLC and do not control dispatch of the facility or participate in control of facility operations.

Lines 7h: Descriptions of facility and facility components have been updated.