



Katherine E. Ross
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Atlanta, GA
Charleston, SC
Charlotte, NC
Columbia, SC
Greenville, SC
Raleigh, NC
Spartanburg, SC

October 5, 2018

VIA ELECTRONIC FILING

Ms. Martha Lynn Jarvis
Chief Clerk
North Carolina Utilities Commission
430 North Salisbury Street
Raleigh, N.C. 27603

Re: **Docket No. EMP-101, Sub 0**
Edgecombe Solar LLC's Application for a Certificate of Public Convenience and Necessity to Construct a Merchant Plant and Registration as a New Renewable Energy Facility

Dear Clerk Jarvis:

Enclosed for filing is Edgecombe Solar LLC's Application for a Certificate of Public Convenience and Necessity to Construct a Merchant Plant and Registration as a New Renewable Energy Facility.

We propose the following schedule for the Commission's consideration of this application:

- Monday, October 15th Public Staff Certificate of Completeness to be filed
- Week of October 29nd Procedural Order Issued
- Week of November 26th Petitions to Intervene & direct testimony of Public Staff and intervenors
- Week of December 3rd Applicant's Rebuttal Testimony
- Tuesday, December 11th Public Hearing in Edgecombe County
- Week of December 17th Evidentiary Hearing in Raleigh

PPAB 4449900v1

North Carolina Utilities Commission
October 5, 2018
Page 2

We have discussed the schedule with the Public Staff and understand they are in general agreement with this proposed schedule.

Thank you for your assistance. Please contact me if you have any questions.

Sincerely,

/s/ Katherine E. Ross

Enclosure

cc: Bob Gillam, Public Staff

PPAB 4449900v1

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. EMP-101 Sub 0

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of the Application of) APPLICATION FOR A CERTIFICATE OF
Edgecombe Solar LLC for a Certificate of) PUBLIC CONVENIENCE AND NECESSITY
Public Convenience and Necessity) FOR A MERCHANT PLANT
)

Edgecombe Solar LLC ("Edgecombe" or the "Applicant"), through counsel, hereby applies to the North Carolina Utilities Commission (the "Commission") pursuant to G.S. § 62-110.1 and Commission Rule R8-63 for a Certificate of Public Convenience and Necessity authorizing construction of solar photovoltaic ("PV") facility with a capacity up to 75-MW_{AC} to be located in Edgecombe County (the "Facility").

In support of its application, Edgecombe provides the Commission the attached three exhibits in compliance with Rule R8-63.

WHEREFORE, Edgecombe Solar LLC respectfully requests that the Commission:

- (i) issue a Certificate of Public Convenience and Necessity pursuant to G.S. § 62-110.1 and Commission Rule R8-63 for the Facility, as more specifically described herein.

Respectfully submitted this 5th day of October, 2018.

By: Katherine E. Ross
Katherine E. Ross
N.C. State Bar No. 38468
Merrick Parrott
N.C. State Bar No. 47999
Parker Poe Adams & Bernstein LLP
PNC Plaza
301 Fayetteville Street, Suite 1400
Raleigh, North Carolina 27601
Tel. 919-828-0564
Fax 919-834-4564
Email: katherineross@parkerpoe.com
merrickparrott@parkerpoe.com

Attorneys for Edgecombe Solar LLC

**Edgecombe Solar LLC
Application Exhibit 1**

(i) The Applicant's full and correct name, business address, and business telephone number are:

Edgecombe Solar LLC
One South Wacker Drive, Suite 1800
Chicago, IL 60606
(312) 224-1400

The electronic mailing address for purposes of this filing is:

RVanPortfliet@invenergyllc.com

(ii) Edgecombe Solar LLC ("Edgecombe") is a Delaware limited liability company with its principal place of business in Chicago, Illinois. Edgecombe was formed March 7, 2018. Edgecombe has obtained authority from the North Carolina Secretary of State to conduct business in North Carolina. A true and correct copy of the Application for Certificate of Authority is included as **Application Addendum 1**. Edgecombe's officers are Michael Polsky-President, James Murphy-Vice President, James Shield-Vice President, Bryan Schueler-Vice President, Michael Baird-Vice President, Michael Kaplan-Vice President, and Michael Blazer-Secretary.

Edgecombe is a direct subsidiary of Invenergy Wind Global LLC ("IWG")¹ and a fifth tier subsidiary of IWH Holdings LLC ("IWH"). IWH is an affiliate of Invenergy LLC ("Invenergy"), the nation's largest independent renewable power generation company. IWH and Invenergy LLC are affiliates with the same ultimate parent company, Invenergy Investment Company LLC. An organization chart depicting the relationship of the affiliated companies is attached as **Application Addendum 2**. Invenergy and its affiliated companies develop, own and/or operate large-scale wind energy, solar energy, advanced energy storage and natural gas-fueled electric generation assets in North

¹ It is anticipated that on or about October 18, 2018, the name of this entity will be changed to Invenergy Renewables Global LLC. The Applicant will provide an updated organization chart upon completion of the change.

America, Latin America, Japan, Israel and Europe. The company serves a wide range of utilities and load serving entities. Invenenergy is headquartered in Chicago with regional development offices in the United States, Canada, Latin America, Japan, Israel and Europe.

Correspondence, documents, and filings regarding this application should be sent as follows:

Mike S. Blazer, General Counsel
 Invenenergy LLC
 One South Wacker Drive, Suite 1800
 Chicago, IL 60606
mblazer@invenenergyllc.com
 312-638-8488

with copies to:

Katherine E. Ross
 Parker Poe Adams & Bernstein LLP
 301 Fayetteville Street, Suite 1400
 Raleigh, North Carolina 27601
katherineross@parkerpoe.com
 919-835-4671

(iii) A copy of IWG's most recent balance sheet and income statement are being provided under seal because they constitute confidential and proprietary information within the scope of G.S. §132.1.2 and have been labeled ***Confidential***

Application Addendum 3.

(iv) Invenenergy has an ownership interest in and operates the following projects in the Southeastern Electric Reliability Council region:

Project Name	Location	Status	Type of Facility	Capacity (MW)	COD
Buffalo Mountain	Anderson County, TN	Operating	Wind	27	12/9/2004
California Ridge	Vermillion County, IL	Operating	Wind	200	10/1/2012
Lakeland	Lanier County, GA	Operating	Solar	3	2013

**Edgecombe Solar LLC
Application Exhibit 2**

(i) The Applicant proposes to construct a solar PV facility of up to 75-MW_{AC} to be built on approximately 660 acres, which constitutes the "Facility Site" and is the subject of the CPCN application. The nameplate generating capacity of the Facility will be 75-MW_{AC} with anticipated gross capacity of 218,332 MWh and net capacity of 179,979 MWh per year. Solar is an intermittent energy source, and therefore, the maximum dependable capacity is 0 MW. Per the Interconnection Request with PJM Interconnection ("PJM"), Edgecombe has been assigned 42.75-MW_{AC} of capacity. The anticipated beginning date for construction is June 1, 2019 and the expected commercial operation date is as early as January 1, 2020. The expected life of the Facility is 30+ years. The estimated construction costs are included as ***Confidential* Application Addendum 4** because it contains confidential information within the scope of G.S. §132.1.2.

(ii) Attached as **Application Addendum 5** is a color map in compliance with the requirements for Rule R8-63-(b)(2)(ii). The map reflects the preliminary layout of the Facility, including the solar arrays, inverters, the collection system, access roads, interconnection facilities, and the existing Dominion transmission line to which the Facility will interconnect. The Facility will consist of approximately two hundred sixty-six thousand two hundred and eleven (266,211) 375 Wp PV modules (or equivalent) affixed to ground mounted racks supported on driven piles. The Facility will utilize approximately twenty-four (24) 3.36 MW TMEIC inverters (or equivalent) and will be interconnected to the grid operated by Virginia Electric and Power Company ("VEPCO") d/b/a Dominion North Carolina Power ("DNCP").

(iii) An e911 street address has not been assigned to the Facility at this time. The Applicant will notify the Commission of the e911 street address when it is received.

The Facility is located in Edgecombe County on the north side of US Highway 64 Alternate West, east of the intersection with April Lane, and west of the intersection with Alston Lane, near Kingsboro. The GPS coordinates of the approximate center of the Facility are: 35.934 N; 77.673 W.

(iv) The Facility is not a natural gas fired facility.

(v) The following permits may be required for the Facility. Applicant will secure all applicable federal, state, and local permits required for construction:

Federal: Edgecombe has consulted with the USFWS and the Army Corps of Engineers about environmentally sensitive areas within or near the Facility Site boundary. The Facility is being designed to minimize environmental impacts. No additional wildlife studies are anticipated. Edgecombe will obtain a Section 10 permit from the Army Corps of Engineers to cross the Tar River with the collection system. The Section 10 permit has not been applied for at this time. Edgecombe anticipates it will file a certification of Exempt Wholesale Generator status pursuant to Section 32 of the Public Utility Holding Company Act of 1935 and will apply for Market Based Rates from the Federal Energy Regulatory Commission prior to commercial operation.

State: A Stormwater Management Permit from the Department of Environmental Quality and an Erosion and Sedimentation Control Plan and Stormwater General Permit Coverage for Construction-Related Activities were granted for the Facility on June 18, 2018, and are attached as **Application Addendum 6**. The Applicant also anticipates that N.C. Department of Transportation Driveway Permit(s) will be required.

Edgecombe County: A Special Use Permit from Edgecombe County was approved for the Facility on September 4, 2018. The written approval will be filed when it is available. The Applicant also anticipates that a building permit and an electrical permit will be required.

(vi) The Facility will interconnect with DNCP and is assigned queue position AC1-034. A System Impact Study has been completed and Edgecombe executed a Facilities Study Agreement on January 16, 2018. The Facilities Study is currently ongoing and is expected to be completed by the fourth quarter of 2018. An Interconnection Service Agreement is expected to be executed by January, 2019.

A collection substation (the "Collection Substation") will be constructed by Edgecombe. The Collection Substation will occupy approximately two (2) acres and will be located near the point of interconnection ("POI") on the existing 115 kV DNCP transmission line. The Collection Substation will be fenced and locked in accordance with industry standards to provide safety and security. The Collection Substation will consist of circuit breakers, switching devices and auxiliary equipment. A three-breaker ring bus interconnection substation will be constructed, owned, and operated by DNCP and a short generator tie line will connect the Facility to the transmission system. The power that is generated from the Facility will flow into the existing 115 kV DNCP transmission line. A diagram of the interconnection facilities is included as **Application Addendum 7.**

Edgecombe Solar LLC Application Exhibit 3

Under North Carolina's Renewable Energy and Energy Efficiency Portfolio Standard ("REPS" or "Senate Bill 3"), investor-owned utilities in North Carolina are required to meet up to 12.5% of their energy needs through renewable energy resources or energy efficiency measures by 2021. Rural electric cooperatives and municipal electric suppliers are subject to a 10% REPS requirement, which must be met by 2018. G.S. § 62-133.8(8) defines solar as a renewable energy resource. The Facility will provide a significant source of RECs for use by Electric Power Suppliers to demonstrate compliance with Senate Bill 3. This Facility is expected to generate approximately 179,979 RECs annually.

Also, Edgecombe has reviewed the Integrated Resource Plan ("IRP") of DNCP filed May 1, 2018.² DNCP forecasts its load serving entity peak and energy requirements are estimated to grow at approximately 1.4% and 1.4% annually throughout the 15 year planning period. DNCP forecasts wholesale and retail customer energy sales will grow at annual rate of 1.2% and 1.5% respectively over the planning period. The DNCP IRP considers the retirement of up to 16 units of existing generation, with an average 392 MW capacity per unit, between 2021 to 2025. The DNCP IRP states that 10 of these units, totaling 1,292 MW, have been or will be put into cold reserve in 2018. In its IRP, DNCP notes that the cost effectiveness of solar is a significant emerging development. Each Alternative Plan in the IRP includes a large amount of solar resources, ranging from approximately 5,000 MW to approximately 7,000 MW over the 25-year study period. From 2019 to 2033, the Alternative Plans in the IRP call for solar additions ranging from approximately 4,500 MW to approximately 6,400 MW.

² 2018 Integrated Resource Plan of Dominion North Carolina Power, Docket No. E-100, Sub 157, May 1, 2018.

In addition to the needs of Dominion, significant need for solar developments exists in the PJM region. PJM is a regional transmission organization (“RTO”) that coordinates the movement of wholesale electricity in all or parts of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia and the District of Columbia. This region includes 60 million people, and projections of load are increasing, as described in detail below.

Summer peak load growth for the PJM RTO is projected to average 0.4% per year over the next 10 years, and 0.4% over the next 15 years.³ The PJM RTO summer peak is forecasted to be 157,635 MW in 2028, a 10-year increase of 5,527 MW, and reaches 162,095 MW in 2033, a 15-year increase of 9,987 MW. Annualized 10-year growth rates for individual zones range from -0.2% to 0.8%.⁴

Winter peak load growth for the PJM RTO is projected to average 0.4% per year over the next 10-year period, and 0.5% over the next 15 years.⁵ The PJM RTO winter peak load in 2027/28 is forecasted to be 136,702 MW, a 10-year increase of 5,239 MW, and reaches 139,975 MW in 2032/33, a 15-year increase of 8,512 MW. Annualized 10-year growth rates for individual zones range from -0.03% to 0.9%.⁶

Generation retirement also demonstrates need for new sources of electricity. Over 25,000 MW of generation have been retired within PJM from 2011 through 2017, and PJM plans to retire an additional 6,935.9 MW of generation between 2018 and 2020.⁷

³ January 2018 PJM Load Forecast Report, p.2, <https://www.pjm.com/-/media/library/reports-notices/load-forecast/2018-load-forecast-report.ashx?la=en>

⁴ *Id.*

⁵ *Id.*

⁶ *Id.*

⁷ PJM State of the Market – 2017, Table 12-5, http://www.monitoringanalytics.com/reports/PJM_State_of_the_Market/2017/2017-som-pjm-sec12.pdf.

In 2011, PJM initiated a study to analyze the integration of renewable energy into the PJM Interconnection system. As of March 31, 2014, “every jurisdiction within the PJM footprint, except for Kentucky and Tennessee, has a renewable portfolio standard (RPS), or Alternative Energy Portfolio Standard (AEPS), or non-binding Renewable Portfolio Goal (RPG).”⁸ One of the study scenarios of the report is for wind and solar generation to meet existing RPS mandates by 2026, with 14% renewable energy penetration in PJM.⁹ In order to meet this RPS goal, the study required 7,356MW of centralized and distributed solar generation.¹⁰

Thus, the PJM projected load increases, announced generation retirements, and renewable portfolio standards provide a need for new resources in the PJM footprint. The Facility, located in the PJM footprint, will help fill this need.

A significant benefit of this Facility is that it will be privately financed and constructed and will not affect ratepayers. While evidence for need for this independent renewable facility is strong, any risk of default is on private financiers and not North Carolina retail electric customers.

⁸ PJM, “PJM Renewable Integration Study, Executive Summary Report, Revision 05.” March 31, 2014. Pg. 1. <http://www.pjm.com/~media/committees-groups/subcommittees/irs/postings/pris-executive-summary.ashx>.

⁹ *Id.* at 3.

¹⁰ *Id.* at 4.

State of North Carolina
Department of the Secretary of State

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Date Filed: 3/16/2018 1:50:00 PM
Elaine F. Marshall
North Carolina Secretary of State
C2018 072 04964

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Oct 05 2018

APPLICATION FOR CERTIFICATE OF AUTHORITY
FOR LIMITED LIABILITY COMPANY

Pursuant to §57D-7-03 of the General Statutes of North Carolina, the undersigned limited liability company hereby applies for a Certificate of Authority to transact business in the State of North Carolina, and for that purpose submits the following:

1. The name of the limited liability company is Edgecombe Solar LLC;
and if the limited liability company name is unavailable for use in the State of North Carolina, the name the limited liability company wishes to use is _____.

2. The state or country under whose laws the limited liability company was formed is Delaware.

3. Principal office information: (Select either a or b.)

a. The limited liability company has a principal office.

The principal office telephone number: (312) 224-1444

The street address and county of the principal office of the limited liability company is:

Number and Street: One S. Wacker Drive, Suite 2000

City: Chicago State: IL Zip Code: 60606 County: Cook

The mailing address, if different from the street address, of the principal office of the corporation is:

Number and Street: _____

City: _____ State: _____ Zip Code: _____ County: _____

b. The limited liability company does not have a principal office.

4. The name of the registered agent in the State of North Carolina is: CT Corporation System

5. The street address and county of the registered agent's office in the State of North Carolina is:

Number and Street: 160 Mine Lake Court, Suite 200

City: Raleigh State: NC Zip Code: 27615 County: Wake

6. The North Carolina mailing address, if different from the street address, of the registered agent's office in the State of North Carolina is:

Number and Street: _____

City: _____ State: NC Zip Code: _____ County: _____

APPLICATION FOR CERTIFICATE OF AUTHORITY

Page 2

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Oct 05 2018

7. The names, titles, and usual business addresses of the current company officials of the limited liability company are: (use attachment if necessary) (This document must be signed by a person listed in item 7.)

Name and Title

Business Address

See Attached Document

8. Attached is a certificate of existence (or document of similar import), duly authenticated by the secretary of state or other official having custody of limited liability company records in the state or country of formation. The Certificate of Existence must be less than six months old. A photocopy of the certification cannot be accepted.

9. If the limited liability company is required to use a fictitious name in order to transact business in this State, a copy of the resolution of its managers adopting the fictitious name is attached.

10. (Optional): Please provide a business e-mail address: The Secretary of State's Office will e-mail the business automatically at the address provided above at no cost when a document is filed. The e-mail provided will not be viewable on the website. For more information on why this service is offered, please see the instructions for this document.

11. This application will be effective upon filing, unless a delayed date and/or time is specified:

This the 12th day of March, 2018

Edgecombe Solar LLC

Name of Limited Liability Company

[Handwritten Signature]

Signature of Company Official

Steven Ryder, Vice President

Type or Print Name and Title

Notes:

1. Filing fee is \$250. This document must be filed with the Secretary of State.

ATTACHMENT TO THE APPLICATION FOR CERTIFICATE OF AUTHORITY
FOR LIMITED LIABILITY COMPANY

FOR

EDGECOMBE SOLAR LLC

7. The names, titles, and usual business addresses of the current company officials of the limited liability company are:

<u>Name</u>	<u>Title</u>	<u>Address</u>
Michael Polsky	President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
James Murphy	Vice President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
Steven Ryder	Vice President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
James Shield	Vice President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
Bryan Schueler	Vice President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
Michael Baird	Vice President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
Michael Kaplan	Vice President	One S. Wacker Drive, Suite 1800, Chicago, IL 60606
Michael Blazer	Secretary	One S. Wacker Drive, Suite 1800, Chicago, IL 60606

Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "EDGECOMBE SOLAR LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE THIRTEENTH DAY OF MARCH, A.D. 2018.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN ASSESSED TO DATE.



A handwritten signature in black ink, appearing to read "JBULLOCK", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed.

6790571 8300

SR# 20181880925

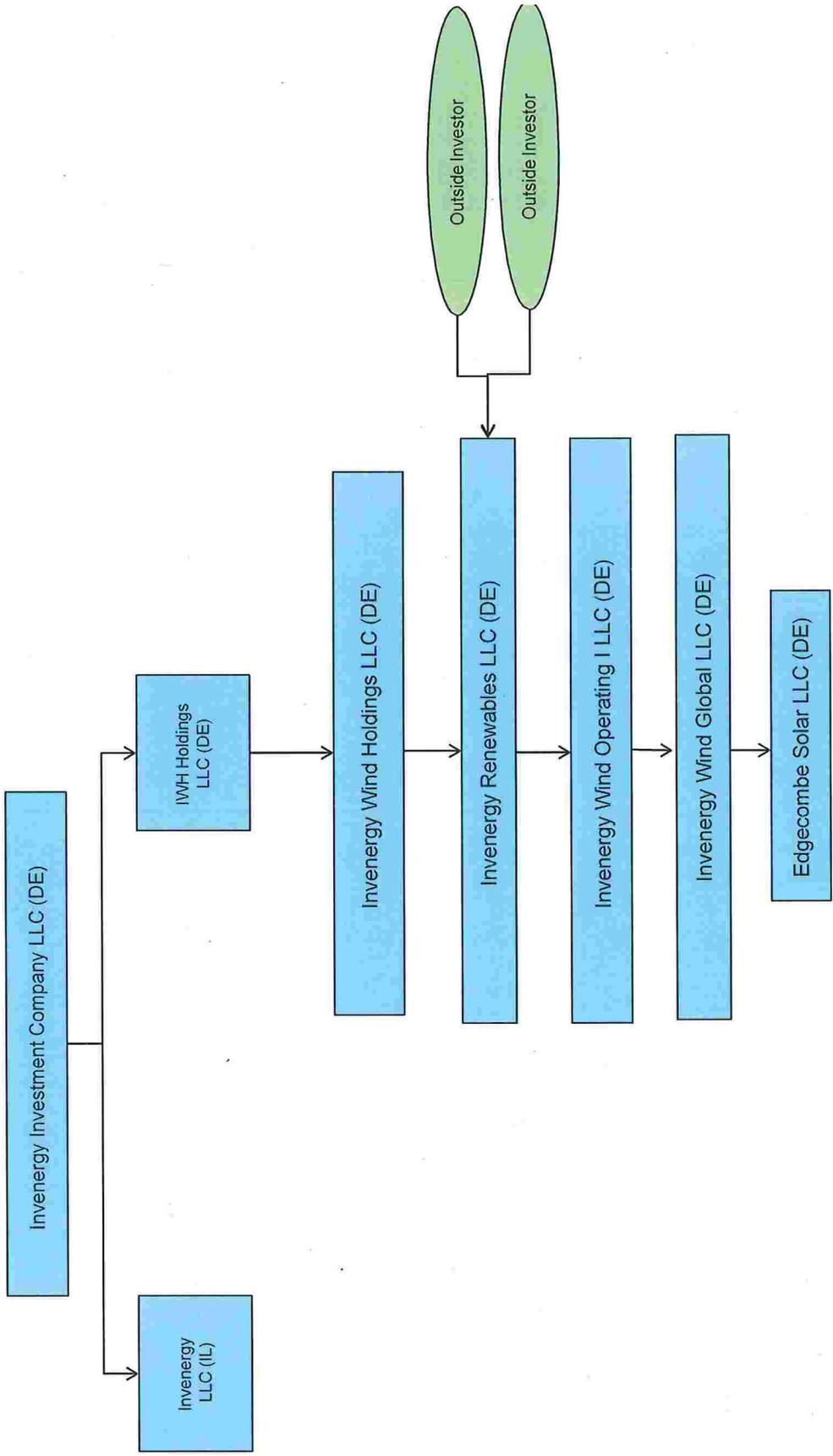
You may verify this certificate online at corp.delaware.gov/authver.shtml

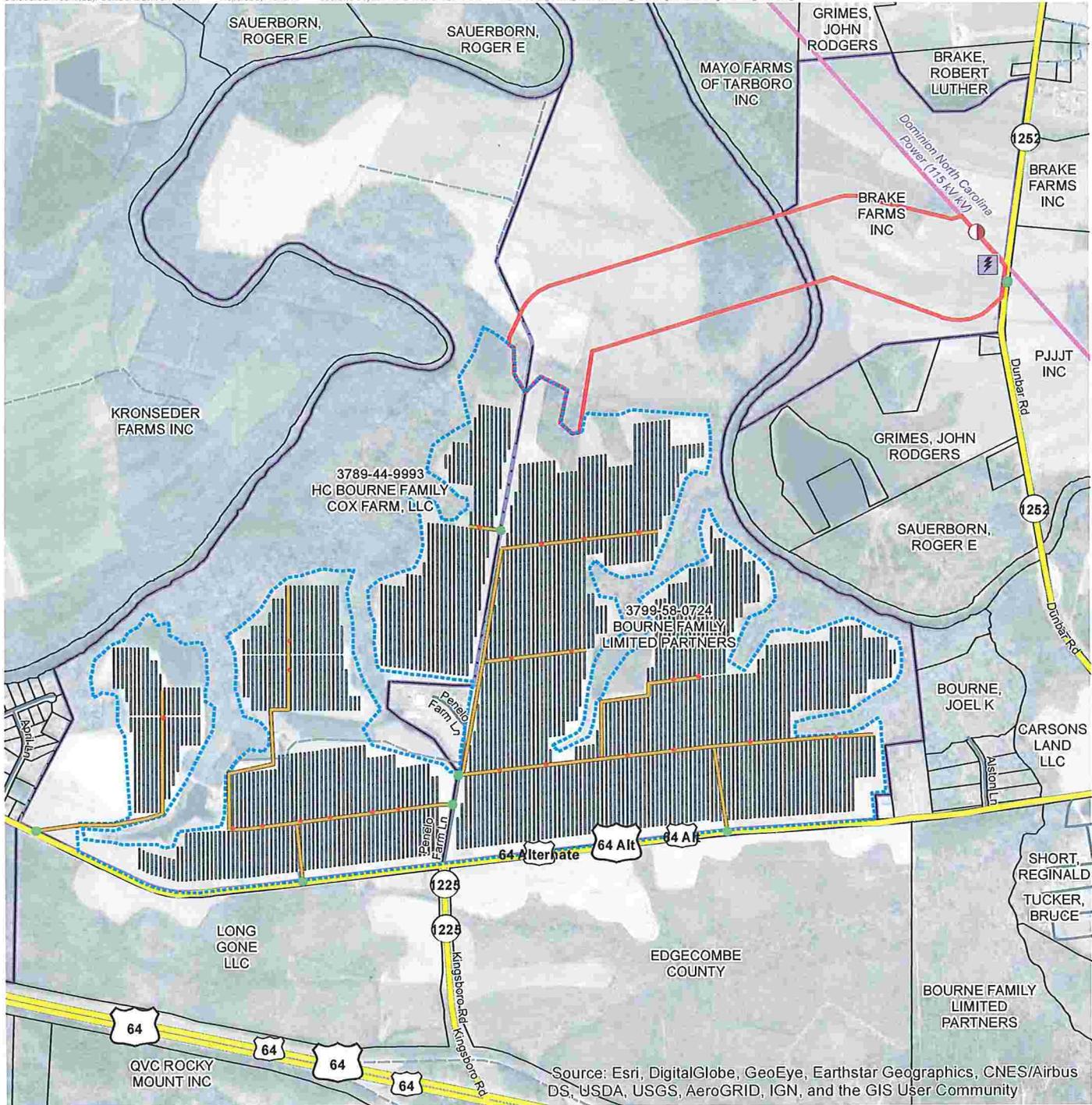
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Date: 03-13-18

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Oct 05 2018





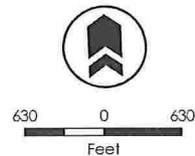
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Approximate Point of Interconnection
- Approximate Project Substation
- Inverters
- Access Road
- Site Access
- Modules
- Dominion North Carolina Transmission Line
- Project Fenceline
- Landowner Parcel
- Leased Parcel
- ROW Corridor

Road Classification

- US/State Route
- Local Road
- Dirt/Unpaved Road



Preliminary Site Plan

Edgecombe Solar Farm | Edgecombe County, North Carolina

Rev. 00

October 03, 2018

Invenergy

Edgecombe Solar LLC
Application Addendum 5



ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

WILLIAM E TOBY VINSON
Interim Director

June 18, 2018

LETTER OF APPROVAL WITH MODIFICATIONS

Edgecombe Solar LLC
ATTN: Michael Kaplan, Vice President
One S. Wacker Drive, Suite 1800
Chicago, IL 60606

RE: Project Name: Edgecombe Solar
Acres Approved: 560
Project ID: EDGEC-2018-007
County: Edgecombe, City: Rocky Mount, Address: ALT HWY 64
River Basin: Tar- Pamlico
Stream Classification: Kimley Horn
Date Received by LQS: June 13, 2018
Plan Type: Revised

Dear Mr. Kaplan:

This office has reviewed the subject erosion and sedimentation control plan. We find the plan to be acceptable and hereby issue this Letter of Approval with Modifications. The enclosed Certificate of Approval must be posted at the job site. This plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, as is required by Title 15A NCAC 4B .0129.

Please be aware that your project will be covered by the enclosed NPDES Construction Stormwater General Permit NCG010000. Please become familiar with all the requirements and conditions of this permit in order to achieve compliance.

Title 15A NCAC 4B .0118(a) requires that a copy of the approved erosion control plan be on file at the job site. Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to insure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the

State of North Carolina | Environmental Quality | Energy, Mineral, and Land Resources
Raleigh Regional Office | 1628 Mail Service Center | Raleigh, NC 27609
919 791 4200

Edgecombe Solar LLC
Application Addendum 6

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Oct 05 2018

Letter of Approval w/Modifications
Edgecombe Solar LLC
June 18, 2018
Page 2 of 3

commencement of this project, the erosion and sedimentation control plan is inadequate to meet the requirements of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute 113A-51 through 66), this office may require revisions to the plan and implementation of the revisions to insure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition, local city or county ordinances or rules may also apply to this land-disturbing activity. This approval does not supersede any other permit or approval.

Please note that this approval is based in part on the accuracy of the information provided in the Financial Responsibility Form, which you provided. You are requested to file an amended form if there is any change in the information included on the form. In addition, it would be helpful if you notify this office of the proposed starting date for this project. Please notify us if you plan to have a preconstruction conference.

Your cooperation is appreciated.

Sincerely,



Sally Castle, EI
Regional Engineering Associate
DEMLR

Enclosures: Certificate of Approval
NPDES Permit

cc: John Barefoot, PE, Kimley Horn – Electronic Copy
DEMLR – Raleigh Regional Office File

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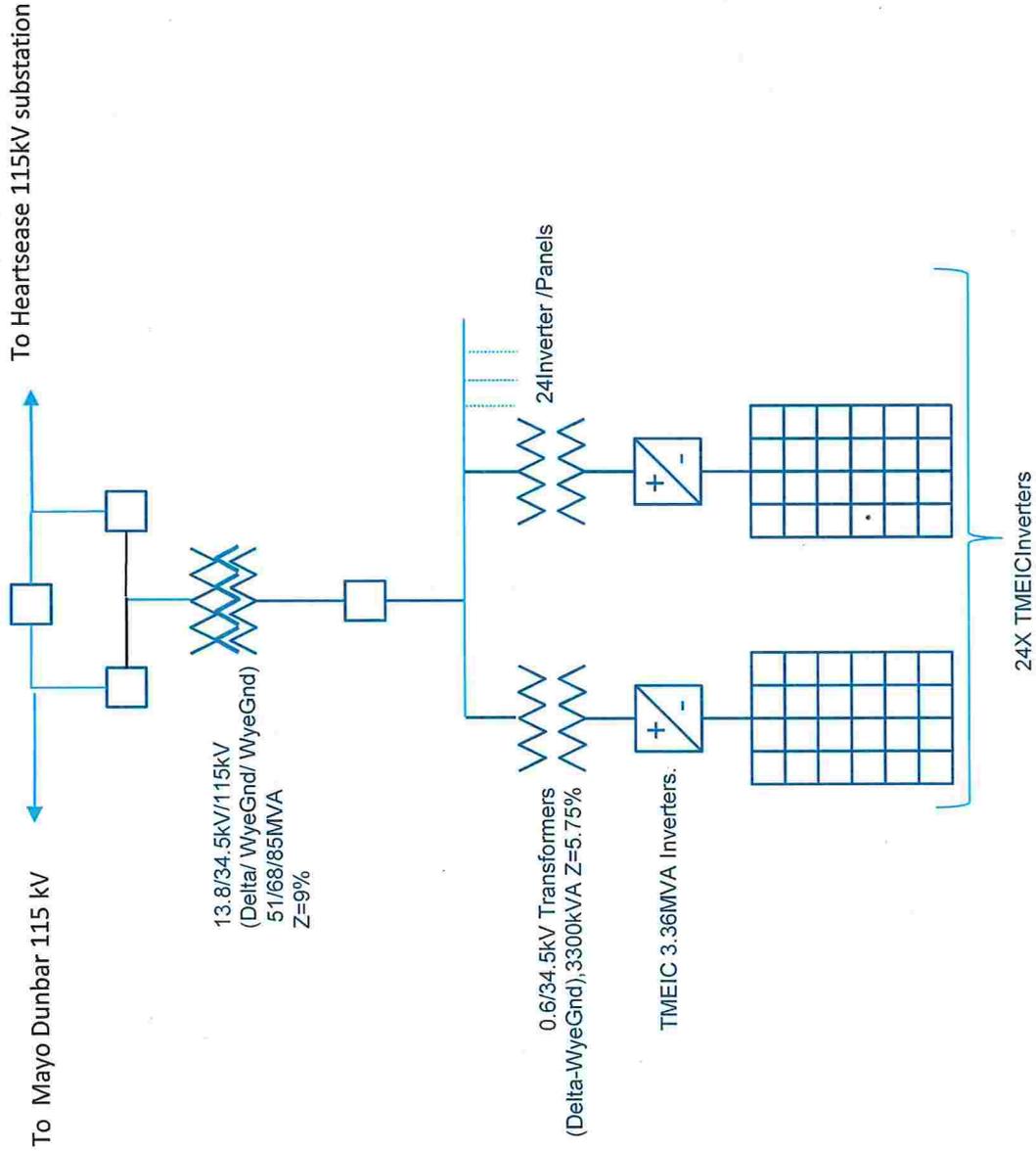
Oct 05 2018

MODIFICATIONS REQUIRED FOR APPROVAL

Project Name: Edgecombe Solar
Project ID: EDGEC-2018-007
County: Edgecombe

1. Provide adequate locations for stockpile/staging areas, parking areas. (GS 113A-57(3), 15A NCAC 04B .0113)
2. Erosion and sedimentation control measures are not to be installed in, on, over, or under a lake or natural watercourse. The contours on the plan sheet indicate that Sediment Basin #2 is located within a natural watercourse. Based on field conditions, relocation of this basin may be necessary to protect a natural watercourse. (15A NCAC 04B .0112)
3. This plan approval is for early grading conditions. Provide two copies of the plan set (one full-size and one half-size), showing the following phases of activity (i.e. location of solar arrays, interior access, roads, and any critical areas where USACE and DWR have permitted disturbance, prior to beginning the associated land disturbing activity. To facilitate DEMLR review, bubble, highlight, or otherwise identify the changes to your resubmittal. Provide a cover letter referencing the project name, project ID, and reasons for submittal. (G.S. 113A-57(4)).

EDGECOMBE SOLAR (75 MW) PROPOSED ONE-LINE



STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. EMP-101 SUB 0

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of the Application of)
Edgecombe Solar LLC for a Certificate)
of Public Convenience and Necessity)
)
)

VERIFICATION

I, Michael Kaplan, being duly sworn, do hereby declare that I am duly authorized to act on behalf of the Applicant, that I am familiar with the facts, have read the foregoing Application, and the matters and statements contained therein are true to the best of my personal knowledge.

This 5th day of October, 2018.



Michael Kaplan
Edgecombe Solar LLC

Sworn and subscribed to before me this 5th day of October, 2018.



Notary Public [Signature of Notary Public]

[Notary Seal]



Rachel M. Olivares

Name of Notary Public [typewritten or printed]
My Commission expires 8/16/2020

DOCKET NO. EMP-101, SUB 0

Filing Fee Tendered \$ ²⁵⁰ _____

Registration Statement for the Registration of a Renewable Energy Facility or New Renewable Energy Facility – Commission Rule R8-66

Pursuant to G.S. 62-133.8 and Commission Rule R8-66, this form is required for use by the owner of a renewable energy facility that intends for the renewable energy certificates the facility earns to be eligible for use by an electric power supplier to comply with G.S. 62-133.8, or for its renewable energy facility to participate in the Competitive Procurement of Renewable Energy Program. This form may be accompanied by any exhibits or additional responses incorporated by reference thereto and attached to this form. This form must be accompanied by the required filing fee of \$250.00.

This form may be electronically filed. Please see www.ncuc.net for instructions.

If this form is filed by hard copy, the original plus 9 copies must be presented at the office of the Chief Clerk, or transmitted by the United States Postal Service or a designated delivery service authorized pursuant to 26 U.S. 7502(f)(2). Regardless of the method of delivery, this form is not deemed filed until it is received by the Chief Clerk, along with the required filing fee.

The mailing address is:

Chief Clerk
 NC Utilities Commission
 4325 Mail Service Center
 Raleigh, NC 27699-4325

Required Statements	Response
Facility name:	Edgecombe
Full and correct name of the owner of the facility:	Edgecombe Solar LLC
Business address:	One South Wacker Drive, Suite 1800, Chicago, IL, 60606
Electronic mailing address:	mkaplan@invenergyllc.com
Telephone number:	(312) 224-1400
Owner's agent for purposes of	Mike S. Blazer

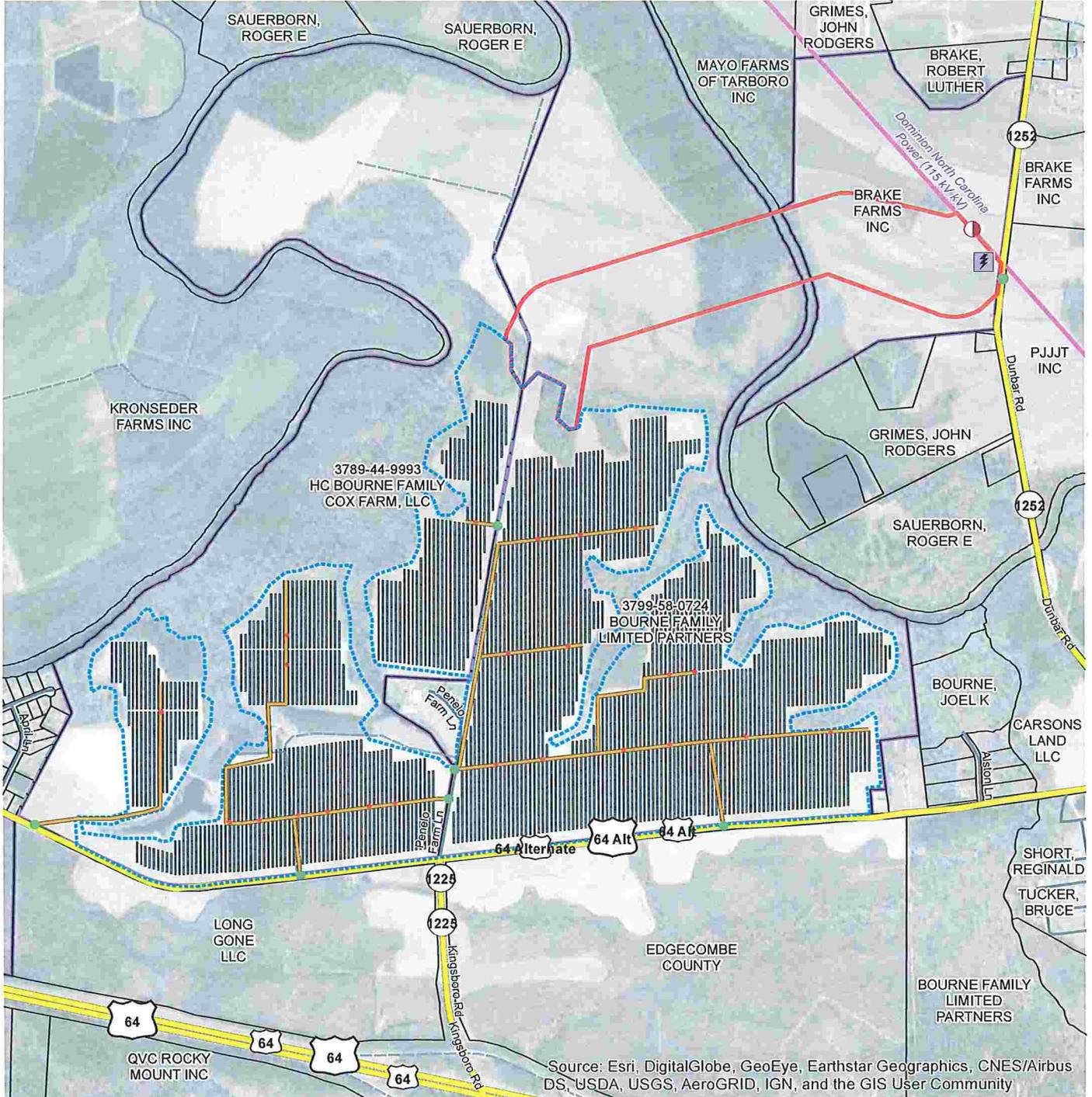
this application, if applicable:	
Agent's business address:	One South Wacker Drive, Suite 1800, Chicago, IL, 60606
Agent's electronic mailing address:	mblazer@invenergyllc.com
Agent's telephone number:	(312) 638-8488
The owner is:	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation/LLC
If a corporation, provide the state and date of incorporation:	State <u>DE</u> Date <u>03/07/2018</u>
If a corporation that is incorporated outside of North Carolina, is it domesticated in North Carolina?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If a partnership, the name and business address of each general partner. (Add additional sheets if necessary.)	N/A
Nature of the renewable energy facility:	
1. Describe the facility, including its technology, and the source of its power and fuel(s). Thermal facilities should describe how its host uses the facility's thermal energy output. (Add additional sheets if necessary.)	The facility will be a 75-MWac photovoltaic ("PV") array. The source of its power is solar energy.
2. Whether it produces electricity, useful thermal energy, or both.	Electricity
3. Nameplate capacity in kW/MW (AC) and/or maximum Btu per hour for thermal facilities.	75-MWac

4. The facility's projected dependable capacity in kW AC or Btu/hour.	Solar is an intermittent energy resource, and therefore, the maximum dependable capacity is 0 kWac.
5. The E911 address of the facility.	The applicant will notify the Commission of the e911 street address when it is received.
6. The county where the facility will be located.	Edgecombe
7. GPS coordinates of the approximate center of the facility site to the nearest second or one thousandth of a degree.	35.934 N; 77.673 W
8. The location of the facility set forth in terms of local highways, streets, rivers, streams, or other generally known local landmarks. Attach a map, such as a county road map, with the location indicated on the map.	The facility is located on the north side of US Highway 64 Alternate West, east of the intersection with April Lane, and west of the intersection with Alston Lane, near Kingsboro, NC, Edgecombe County.
Site ownership:	
1. Is the site owner other than the facility owner? If yes, who is the site owner?	Yes. HC Bourne Family Cox Farm LLC and Bourne Family Limited Partnership.
2. What is the facility owner's legal interest in the site?	Edgecombe Solar LLC will be the owner of the site and has entered into ground leases with HC Bourne Family Cox Farm LLC and Bourne Family Limited Partnership, the current owners of the site.
<p>Federal and State licenses, permits, and exemptions.</p> <p>Note: Responses in this section should provide all federal and state (not local) licenses, permits, and/or exemptions required for construction and operation of the facility and a statement of whether each has been obtained or applied for. A copy of those that have been obtained should be attached to this registration statements. Wind facilities with multiple turbines, where each turbine is licensed separately, may provide copies of approvals for one such turbine, but shall add an attestation that approvals for all of the turbines are available for inspection.</p>	
1. Federal permits and licenses:	Section 10 permit from the Army Corps of Engineers.
2. State permits and licenses:	Stormwater Management Permit and Erosion and Sedimentation Control Plan from NCDEQ; NC DOT Driveway Permit.

3. Exemptions required for construction and operation of the facility:	N/A
4. Statement of whether each has been obtained or applied for (attach copy of those that have been obtained with this application):	Stormwater Management Permit and Erosion and Sedimentation and Control Plan and Stormwater General Permit Coverage obtained on 6/18/18. (See attached) The Applicant will file copies of the outstanding permits once they are obtained.
1. If the facility has been placed into service, on what date did the facility begin operating?	N/A
2. If the facility is not yet operating, on what date is the facility projected to be placed into service?	January, 2020
1. If the facility is already operating, what is the amount of energy produced by the facility, net of station use, for the most recent 12-month or calendar-year period? Energy production data for a shorter time period is acceptable for facilities that have not yet operated for a full year.	N/A
2. What entity does (or will) read the facility's energy production meter(s) for the purpose of issuing renewable energy certificates?	Dominion North Carolina Power
3. For thermal energy facilities, describe the method to be used to determine the facility's thermal energy production, in BTUs, that is eligible for REC issuance.	N/A
4. Does the facility participate	

<p>in a REC tracking system and if so, which one? If not, which tracking system will the facility participate in for the purpose of REC issuance?</p>	<p>Yes. The Applicant anticipates participating in the North Carolina Renewable Energy Tracking System.</p>
<p>5. If this facility has already been the subject of a proceeding or submittal before the Commission, such as a Report of Proposed Construction or a Certificate of Public Convenience and Necessity, please provide the Commission Docket Number, if available.</p>	<p>N/A</p>
<p>If the facility is a combined heat and power system, the owner shall also include in its registration statement the following information:</p>	
<p>1. A narrative description and one-line diagram of the electrical and thermal generation systems to include Btu meters, boilers, steam pressures, valves, turbines, and ultimate uses of the steam. Also, include any crossover of steam, cross connections (even if by spool piece), or the ability to supply steam from other means or to other loads.</p>	
<p>2. A description of the parasitic electrical and parasitic thermal loads.</p>	
<p>3. Calculations for the parasitic electrical and parasitic thermal loads and supporting documents.</p>	
<p>4. A description of the method of collecting the waste heat from the electrical generating system.</p>	
<p>5. A description of the host(s) of the waste heat and an explanation of how the waste heat will be used and useful.</p>	
<p>6. Calculations of the percent of energy that is delivered to the steam host(s) but not used and useful.</p>	
<p>7. Confirmation if the proposed operation will have any pressure reducing valves operating simultaneously in parallel with any back pressure turbines.</p>	
<p>If the facility owner intends to earn multiple types of RECs by using a variety of fuels, the owner should include in its registration statement the following additional information:</p>	
<p>1. Example calculations for the energy production associated with each fuel used by the family as required by the Appendix C (Multi-fuel Generation) to the operating procedures for the North</p>	

Carolina Renewable Energy Tracking System. These calculations must ultimately show the electrical and thermal energy (if any) attributable to only the renewable fuels and how the number of renewable energy certificates is determined.	
2. A description of each fuel to be used by the facility.	
3. A description of how the heat content of each fuel was determined.	



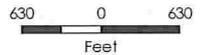
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Approximate Point of Interconnection
- Dominion North Carolina Transmission Line
- Approximate Project Substation
- Project Fenceline
- Inverters
- Access Road
- Site Access
- Modules
- Leased Parcel
- ROW Corridor

Road Classification

- US/State Route
- Local Road
- Dirt/Unpaved Road



Preliminary Site Plan

Edgecombe Solar Farm | Edgecombe County, North Carolina

Rev. 00

October 03, 2018



Edgecombe Solar LLC
Registration Exhibit 1



Energy, Mineral
and Land Resources
ENVIRONMENTAL QUALITY

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

WILLIAM E TOBY VINSON
Interim Director

June 18, 2018

LETTER OF APPROVAL WITH MODIFICATIONS

Edgecombe Solar LLC
ATTN: Michael Kaplan, Vice President
One S. Wacker Drive, Suite 1800
Chicago, IL 60606

RE: Project Name: Edgecombe Solar
Acres Approved: 560
Project ID: EDGEC-2018-007
County: Edgecombe, City: Rocky Mount, Address: ALT HWY 64
River Basin: Tar- Pamlico
Stream Classification: Kimley Horn
Date Received by LQS: June 13, 2018
Plan Type: Revised

Dear Mr. Kaplan:

This office has reviewed the subject erosion and sedimentation control plan. We find the plan to be acceptable and hereby issue this Letter of Approval with Modifications. The enclosed Certificate of Approval must be posted at the job site. This plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, as is required by Title 15A NCAC 4B .0129.

Please be aware that your project will be covered by the enclosed NPDES Construction Stormwater General Permit NCG010000. Please become familiar with all the requirements and conditions of this permit in order to achieve compliance.

Title 15A NCAC 4B .0118(a) requires that a copy of the approved erosion control plan be on file at the job site. Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to insure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the

State of North Carolina | Environmental Quality | Energy, Mineral, and Land Resources
Raleigh Regional Office | 1628 Mail Service Center | Raleigh, NC 27609
919 791 4200

Edgecombe Solar LLC
Registration Exhibit 2

OFFICIAL COPY

Oct 05 2018

Letter of Approval w/Modifications
Edgecombe Solar LLC
June 18, 2018
Page 2 of 3

commencement of this project, the erosion and sedimentation control plan is inadequate to meet the requirements of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute 113A-51 through 66), this office may require revisions to the plan and implementation of the revisions to insure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition, local city or county ordinances or rules may also apply to this land-disturbing activity. This approval does not supersede any other permit or approval.

Please note that this approval is based in part on the accuracy of the information provided in the Financial Responsibility Form, which you provided. You are requested to file an amended form if there is any change in the information included on the form. In addition, it would be helpful if you notify this office of the proposed starting date for this project. Please notify us if you plan to have a preconstruction conference.

Your cooperation is appreciated.

Sincerely,



Sally Castle, EI
Regional Engineering Associate
DEMLR

Enclosures: Certificate of Approval
NPDES Permit

cc: John Barefoot, PE, Kimley Horn – Electronic Copy
DEMLR – Raleigh Regional Office File

OFFICIAL COPY

Oct 05 2018

MODIFICATIONS REQUIRED FOR APPROVAL

Project Name: Edgecombe Solar
Project ID: EDGEC-2018-007
County: Edgecombe

1. Provide adequate locations for stockpile/staging areas, parking areas. (GS 113A-57(3), 15A NCAC 04B .0113)
2. Erosion and sedimentation control measures are not to be installed in, on, over, or under a lake or natural watercourse. The contours on the plan sheet indicate that Sediment Basin #2 is located within a natural watercourse. Based on field conditions, relocation of this basin may be necessary to protect a natural watercourse. (15A NCAC 04B .0112)
3. This plan approval is for early grading conditions. Provide two copies of the plan set (one full-size and one half-size), showing the following phases of activity (i.e. location of solar arrays, interior access, roads, and any critical areas where USACE and DWR have permitted disturbance, prior to beginning the associated land disturbing activity. To facilitate DEMLR review, bubble, highlight, or otherwise identify the changes to your resubmittal. Provide a cover letter referencing the project name, project ID, and reasons for submittal. (G.S. 113A-57(4)).

The owner of the renewable energy facility shall provide the following attestations, signed and notarized:

- 1. Yes No I certify that the facility is in substantial compliance with all federal and state laws, regulations, and rules for the protection of the environment and conservation of natural resources.
- 2. Yes No I certify that the facility satisfies the requirements of G.S. 62-133.8(a)(5) or (7) as a:
 - renewable energy facility, or
 - new renewable energy facility,
 and that the facility will be operated as a:
 - renewable energy facility, or
 - new renewable energy facility.
- 3. Yes No I certify that 1) my organization is not simultaneously under contract with NC GreenPower to sell our RECs emanating from the same electricity production being tracked in NC-RETS; and 2) any renewable energy certificates (whether or not bundled with electric power) sold to an electric power supplier to comply with G.S. 62-133.8 have not, and will not, be remarketed or otherwise resold for any other purpose, including another renewable energy portfolio standard or voluntary purchase of renewable energy certificates in North Carolina (such as NC GreenPower) or any other state or country, and that the electric power associated with the certificates will not be offered or sold with any representation that the power is bundled with renewable energy certificates.
- 4. Yes No I certify that I consent to the auditing of my organization's books and records by the Public Staff insofar as those records relate to transactions with North Carolina electric power suppliers, and agree to provide the Public Staff and the Commission access to our books and records, wherever they are located, and to the facility.
- 5. Yes No I certify that the information provided is true and correct for all years that the facility has earned RECs for compliance with G.S. 62-133.8.
- 6. Yes No I certify that I am the owner of the renewable energy facility or am duly authorized to act on behalf of the owner for the purpose of this filing.



(Signature)

Michael Kaplan

(Name - Printed or Typed)

Vice President

(Title)

10-5-18

(Date)

VERIFICATION

STATE OF Illinois COUNTY OF Cook

Michael Kaplan, personally appeared before me this day and, being first duly sworn, says that the facts stated in the foregoing application and any exhibits, documents, and statements thereto attached are true as he or she believes.

WITNESS my hand and notarial seal, this 5 day of October, 2018.

My Commission Expires: 4/9/19

Samia K Atasi
Signature of Notary Public

Samia K. Atasi
Name of Notary Public – Typed or Printed



The name of the person who completes and signs the annual certification must be typed or printed by the notary in the space provided in the verification. The notary's name must be typed or printed below the notary's seal.