

Request for Proposals: Stand-Alone Solar, Solar + Storage, and Stand-Alone Storage



**Central Virginia Electric Cooperative,
City of Danville, VA,
& City of Martinsville, VA**

RFP Issued: May 31, 2019

Proposal Deadline: July 1, 2019

GDS Associates, Inc.

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1 Scope

Central Virginia Electric Cooperative (“CVEC”), the City of Danville, VA (“Danville”), and the City of Martinsville, VA (“Martinsville”) (collectively, “Participants”) seek competitive PPA proposals for various local project developments, including (1) stand-alone solar, (2) solar + storage, and (3) stand-alone storage. CVEC anticipates participation in a total of 10 MW AC of solar and 2-3 MW of storage. To accomplish this objective, CVEC may participate in multiple project options. Danville anticipates participation in up to two facilities of 2-3 MW of stand-alone storage only (Project #3). Martinsville is interested in 5 MW AC of stand-alone solar (Project #1) and 5 MW AC of solar and 2-3 MW of storage (Project #2). Respondents may provide pricing for a single project or up to all three project options. The Participants may award their respective projects to the same respondents, separate respondents or no respondents.

These projects will be located behind the distribution meter at various utility substations, which are more specifically described in Appendix A. The primary function of these projects will be to reduce transmission demand (either on an annual or 12-CP zonal coincident peak basis, as may apply) and to reduce capacity demand (5-hour summer coincident peak with PJM). In addition to capacity and transmission cost reduction, the solar generation is expected to reduce CVEC & Martinsville’s load requirements and provide SRECs. At this time, the Participants do not anticipate storage involvement in the PJM ancillary services market.

As part of this RFP, the Participants request PPA pricing (on a \$/MWh or \$/kW-month basis, as applicable) to take advantage of the Federal Investment Tax Credit (“ITC”). Although the Participants are not contemplating ownership at this time, they are interested in exploring a buy-out option.

This RFP describes the basis for the Participants’ requests and provides information and instructions for respondents. Proposals are due **July 1, 2019**.

2 RFP Communications

All questions or other communications regarding this RFP should be directed through the Participants’ consultant.

GDS Associates, Inc.	
1850 Parkway Place, Suite 800 Marietta, GA 30067	
Attention:	Mr. Garrett Cole, P.E. Principal
Direct:	770-799-2393
Email:	Garrett.Cole@gdsassociates.com
Attention:	Mr. Ryan Johnson, P.E. Senior Project Manager
Direct:	770-799-2351
Email:	Ryan.Johnson@gdsassociates.com
Attention:	Ms. Erin Shealy Senior Project Manager
Direct:	770-799-2471
Email:	Erin.Shealy@gdsassociates.com

3 Schedule

The following schedule and deadlines apply to this solicitation:

Event	Date
Issue RFP	May 31, 2019
Proposals Due	July 1, 2019
Short-List Notification / Commence Negotiations	September 1, 2019
Complete Contract Negotiations / Execute Contract	November 30, 2019
Facility COD / Commencement of Service	January 1, 2021

The proposal process begins with the issuing of this RFP on **May 31, 2019**, and will continue until **July 1, 2019**, (the “Proposal Due Date”) for the submission of proposals. Responses to this RFP received after the Proposal Due Date may, in the sole discretion of the Participants, be deemed non-responsive and given no further consideration in this RFP process.

Should any addenda to the RFP be necessary, such addenda will be issued via the RFP website and potential respondents are expected to monitor the RFP website for updates.

The Participants anticipate a Facility COD by January 1, 2021 at the latest, however, COD may be refined during contract negotiations to reflect specific project timelines.

4 Background Information

Information contained in this RFP is provided for background use only. The Participants make no representation that the information is complete or applicable to any respondent's proposal. The following is a general description of the Participants.

CVEC is a member-owned, not-for-profit electric utility headquartered in Colleen, Virginia. CVEC was formed in 1937 and currently serves 14 counties in Central Virginia on almost 4,600 miles of line. CVEC's territory spans over the Dominion Zone and AEP Zone within PJM. CVEC's annual peak demand is 250 MW and annual load requirement is approximately 800 GWh.

Danville is a municipal electric utility headquartered in Danville, Virginia. Danville currently serves ~42,000 customer locations in a 500-square-mile service territory covering Danville, the southern third of Pittsylvania County, and small portions of Henry and Halifax counties in Virginia. Danville's territory is located in the AEP Zone within PJM. Danville's annual peak demand is 200 MW and annual load requirement is approximately 1,000 GWh.

Martinsville is a municipal electric utility headquartered in Martinsville, Virginia. Martinsville currently serves ~7,700 customers in Virginia. Martinsville's territory is located in the AEP Zone within PJM. Martinsville's annual peak demand is 39 MW and annual load requirement is approximately 170 GWh.

The Participants supply power and energy via their separate, diverse portfolios of long-term power supply arrangements and short-term power supply arrangements with various counterparties. They participate in various, long-term resources including, but not limited to, a coal resource, a natural-gas power resource, hydro resources, a wind resource, and behind-the-meter solar resources, and various market products. The Participants are solely responsible for managing their contribution to the PJM transmission peak demand and PJM capacity peak demand. The Participants' ability to peak shave is not restricted by any current power supply arrangements.

5 Project Description

Section 5 provides greater detail regarding each of the 3 proposed projects. CVEC is interested in pursuing a total of 10 MW of solar and 2-3 MW of storage via the most advantageous combination of the three projects outlined in this RFP. Danville is only interested in pursuing the Stand-Alone Storage (Project #3). Martinsville is interested in pursuing the Stand-Alone Solar (Project #1) and Solar + Storage (Project #2).

To be clear, the Participants could each pursue their respective projects separately. The Participants anticipate contracting separately for their respective projects. However, should a specific supplier be deemed advantageous for multiple Participants, those Participants may negotiate a single agreement to be executed by each respective participant.

The Participants request a COD of January 2021 for all 3 project options. For solar development, flat PPA pricing is requested based on a 20-year term and / or a 25-year term. For storage development, flat Energy Storage Service Agreement ("ESSA") pricing is requested based on a 15-year term:

Project	Description
1	5 MW Stand-Alone Solar
2	5 MW Solar + 2-3 MW Storage
3	2-3 MW Storage

The Participants request conforming responses but will consider 'optimized' responses if provided in addition to a conforming response.

A. PROJECT 1: STAND-ALONE SOLAR

CVEC is interested in a total of 10 MW AC of solar development, and Martinsville is interested in a total of 5 MW AC of solar development. CVEC and Martinsville will use the solar generation to serve their respective load requirements. Additionally, CVEC and Martinsville intend to achieve transmission and capacity cost reductions based on the solar output coincident with the applicable peaks. CVEC and Martinsville will choose to monetize the SRECs or use the SRECs to satisfy Virginia's voluntary renewable portfolio standards. CVEC and Martinsville may consider alternative SREC options at a later date in the RFP process.

CVEC and Martinsville envision a facility that is interconnected behind-the-meter by dedicated switchgear to the existing distribution system. CVEC has provided two general regions for potential solar facility locations within CVEC's territory, which are detailed in Appendix A. Suppliers should

research these regions to pinpoint optimal solar site locations. Martinsville has provided two specific site locations for potential solar facilities, which are detailed in Appendix A. CVEC and Martinsville are open to other siting locations. CVEC and Martinsville are targeting 5 MW of solar development at each site location. CVEC anticipates development at two sites in order to achieve the 10 MW solar development objective, and Martinsville anticipates development at one site. CVEC and Martinsville request that respondents do not attempt to make or secure any site control requests at this time in the RFP process (such activity will be deemed as a negative impact to respondents' proposal scoring).

The respondent is responsible for proposing a complete system, including transformers capable of interconnecting to a 12.47 or 24.9 kV distribution system. The respondent may choose their preferred modules, inverters, trackers, and other components. CVEC and Martinsville's objective is to obtain the desired level of capacity and energy at the greatest value from a reliable solar developer at appropriate PPA terms.

The table below addresses the requirements for the solar facility:

Solar	
Sizes	5 MW
Durations	-
Terms	20 Years 25 Years
COD	2021
Products	Energy, capacity, and environmental attributes
PPA Rate	Fixed \$/MWh rate

B. PROJECT 2: SOLAR + STORAGE

CVEC and Martinsville, individually, are interested in combined sites with co-located solar + storage interconnected behind their respective meters. CVEC and Martinsville intend to use the solar generation to serve annual load requirements. CVEC and Martinsville anticipate transmission and capacity peak reduction based on the solar output and battery storage output during the times of the corresponding transmission and capacity peaks. For such reasons, CVEC and Martinsville would like to ensure that the solar + storage generation are operationally capable of simultaneously generating during peak hours to achieve maximum peak reduction. CVEC and Martinsville will choose to monetize the SRECs or use the SRECs to satisfy Virginia's voluntary renewable portfolio standards. CVEC and Martinsville may consider alternative SREC options at a later date in the RFP process.

CVEC and Martinsville anticipate cycling the storage no more than 100 times per year on an optimized basis and, when cycled, normally only 1 time per day. CVEC and Martinsville anticipate charging the storage in accordance with ITC requirements for the first 5 years of operation (e.g.

during morning sunlight hours) and discharging the storage during potential coincident peak conditions (i.e. on-peak periods). In an effort to maximize peak demand reduction, CVEC and Martinsville anticipate full depth of discharge of the battery during each cycle.

CVEC has provided **2 general regions** for potential solar + storage project locations within CVEC's territory, which are detailed in Appendix A. Suppliers should research these regions to pinpoint optimal solar + storage site locations. Martinsville has provided two specific site locations for potential solar + storage facilities, which are detailed in Appendix A.

The table below addresses the requirements for the solar + storage facility:

	Solar	Storage
Sizes	5 MW	2 and 3 MW
Durations	-	1, 2, and 3 Hour
Terms	20 Years 25 Years	15 Years
COD	2021	2021
Products	Energy, capacity, and environmental attributes	Energy and capacity
PPA Rate	Fixed \$/MWh rate	Fixed \$/kW-mo.

C. PROJECT 3: STAND-ALONE STORAGE

CVEC and Danville are interested in the installation of separate and individual storage projects located at their respective substations. CVEC and Danville will use the storage as a peak reduction resource to avoid transmission and capacity costs. CVEC and Danville do not intend to use the battery in the PJM ancillary service market. For peak shaving operations, CVEC and Danville anticipate cycling the battery no more than 100 times per year at full depth of discharge in an effort to maximize peak demand reduction. When utilized, CVEC and Danville expect the storage to typically cycle 1 time per day. For each cycle, CVEC and Danville anticipate charging the storage from the PJM energy market during off-peak, overnight hours and discharging the storage during potential coincident peak conditions (i.e. on-peak periods).

The storage project sites are described in greater detail in Appendix A. CVEC has provided 2 general regions for potential storage project locations within CVEC's territory, and the stand-alone storage locations would be preferably located at or near a viable CVEC substation. Suppliers should research these regions to pinpoint optimal stand-alone storage site locations. Danville has provided a specific site location in Appendix A.

The table below addresses the requirements for the storage facility:

STORAGE	
Sizes	2 and 3 MW
Durations	1, 2, and 3 Hour
Terms	15 Years
COD	2021
Products	Energy and capacity
PPA Rate	Fixed \$/kW-mo.

Proposal Content and Pricing Matrix

The Participants are seeking proposals and pricing based on the terms outlined below. The Participants expect the respondent would take advantage of the Federal ITC and the allowance for Modified Accelerated Cost Recovery System (“MACRS”). The Participants, as a non-taxable entity, would expect the tax benefits accruing to the respondent to be reflected in the price offered by the respondent. The Participants prefer that the proposals for PPA be submitted on a flat price for the full term of the PPA with no escalation. The respondent will be responsible for procuring all equipment, materials, permitting, civil engineering, interconnection agreement, and other services required for a complete operating facility.

In addition to the project-specific content requested in subsections below, respondents should include the following information as part of the proposal:

1. Key team members for the respondent, relevant project management experience and capability, and related project experience
2. Respondent’s history of providing similarly-sized projects / list of references
3. Financial viability of the respondent, including its parent or any other guarantor of services under the respondent’s proposal
4. Possible conflicts of interest and any legal claims

The Participants will review and may utilize information, if any, submitted by a respondent, which is not specifically requested as a part of the RFP. The Participants reserve the right to request additional information from respondents during the proposal evaluation process.

A. PROJECT 1: STAND-ALONE SOLAR

CVEC is interested in being the offtaker in up to two 5 MW AC solar facilities, for a total of 10 MW AC. Martinsville is interested in being the offtaker in one 5 MW AC solar facility. Each site/general area provided in Appendix A is expected to fit approximately 5 MW AC. In order to address minimum loading concerns, a maximum of 5 MW AC of solar can be located behind a single substation. CVEC and Martinsville will accept proposals with flat PPA pricing (\$/MWh) for (1) singular 5 MW AC sites, (2) combinations of two 5 MW AC sites, both located within CVEC's territory and behind 2 separate substations, (3) combinations of three 5 MW AC sites, with 2 sites located within CVEC's territory and one site located within Martinsville's territory, or (4) alternative solar sites located within CVEC or Martinsville's respective territories. CVEC and Martinsville request that respondents do not reach out to landowners at this time in the RFP process (such activity will be deemed as a negative impact to a respondent's proposal scoring). Respondents should include the following information as part of the proposal:

1. Flat PPA rates (\$/MWh) for each alternative (inclusive of all benefits, including energy, capacity, and environmental attributes; and costs, including civil and environmental, site and stormwater preparation/planning, permitting, environmental, etc.)
2. Construction schedule to meet ITC requirements and expected COD and proposed delay damages (\$/MW per day)
3. Location, as specific as possible
4. Sizing and expected DC and AC MW capacity
5. Expected Year 1 Energy (MWhs)
6. Annual Degradation Percentage
7. Technical specification sheets for modules, inverters, racking, trackers, and transformers
8. Descriptions of equipment (battery energy storage ready/capable, tier 1 equipment, panel density, polycrystalline, monocrystalline, bi-facial, central or string inverters, etc.)
9. Description of respondent's scheduling, operation, and maintenance responsibilities
10. Expected annual solar generation profiles (8,760 hourly generation curves and P50 and P90 production assumptions included with PVSyst reports or equivalent)
11. Guaranteed performance standards over the term
12. Project site layouts and technical diagrams with land requirements

PPA rates for each project site should be in flat, \$/MWh format for a 20-year term and/or a 25-year term. Also, if there is a discount associated with providing two or three 5 MW AC sites, please indicate what the discounted PPA rate would be.

Solar Pricing Matrix

Project Site(s)	DC (MW)	AC (MW)	COD	Terms	PPA Rate (\$/MWh)
CVEC Site 1		5	2021	20	
CVEC Site 2		5	2021	20	
CVEC Site 3		5	2021	20	
Martinsville Site 1		5	2021	20	
Martinsville Site 2		5	2021	20	

CVEC Site 1		5	2021	25	
CVEC Site 2		5	2021	25	
CVEC Site 3		5	2021	25	
Martinsville Site 1		5	2021	25	
Martinsville Site 2		5	2021	25	

B. PROJECT 2: SOLAR + STORAGE

CVEC is interested in participating in up to two 5 MW AC solar facilities co-located with 2-3 MW of storage. Martinsville is interested in participating in one 5 MW AC solar facility co-located with 2-3 MW of storage. Each site/general area provided in Appendix A is expected to fit approximately 5 MW of solar and 2-3 MW of storage. In order to address minimum loading concerns, a maximum of 5 MW AC of solar and 2-3 MW of storage can be located behind a single substation. Solar PPA pricing and Storage PPA pricing should be provided separately. CVEC and Martinsville will accept proposals with flat PPA pricing for (1) singular 5 MW solar + 2-3 MW storage sites, (2) combinations of two 5 MW solar sites (located behind two separate substations) + 2-3 MW storage at one of those selected sites, (3) combinations of three 5 MW solar sites + 2-3 MW storage sites, with 2 sites located within CVEC's territory and one site located within Martinsville's territory, or (4) alternative solar + storage sites located within CVEC or Martinsville's respective territories. CVEC and Martinsville will accept proposals with flat storage PPA pricing for various storage size (MW) and duration combinations as outlined in the pricing matrix below. If respondent does not offer the exact configuration, CVEC and Martinsville will consider a close-as-possible configuration as substitute. CVEC and Martinsville requests that respondents do not make any site control requests at this time in the RFP process. Respondents should include the following information as part of the proposal:

1. Solar information listed above for Project 1 (**Items 1-12**)
2. Flat PPA rates (\$/kW-mo) for each storage alternative (inclusive of all benefits, including energy and capacity) (Note: \$/kW-mo preferred over addition to solar \$/MWh PPA rate)
3. Storage technical specification sheets for storage components (e.g. batteries, inverters) including data such as:
 - o chemistry,
 - o OEM,
 - o useful life estimates,
 - o charge rates,
 - o roundtrip efficiency, and
 - o expected losses (MV Transformer and HVAC)
4. ITC-related information including:
 - o Operational restrictions of storage to meet ITC requirements and any possible conflict with the Participants' use case,
 - o Estimated PPA price reduction due to ITC,
 - o Post-ITC monetization buy-out options
5. Storage useful life information including:
 - o Description of useful life beyond term, if any, including component upgrade / replacement costs, degradation, recycling / disposal cost estimate
 - o Post-term buy-out or PPA extension options

- General description of usefulness of storage asset after PPA term and how the Participants might extract that value
- 6. Storage degradation information including:
 - Guaranteed degradation curve limits assuming the Participants are committing to 100 cycles / year operating limitation,
 - Actual expected degradation curve considering the Participants' use case
 - Although not requesting it, the Participants will consider means of guaranteeing the initial capability of the battery for its life (augmentation, oversizing, or capacity guarantees), but the pricing for this must be provided incrementally above and beyond the requested PPA pricing.
- 7. Interconnection requirements
- 8. All applicable storage operating limitations (any in addition to those listed above)
- 9. Description of respondent's scheduling, operation, and maintenance responsibilities
- 10. Communications and control infrastructure to communicate with the Participants (full remote access, data transfer and collection, cloud storage, Wi-Fi connectivity, real-time data monitoring, performance measuring, virtual private network)
- 11. Local utility and jurisdictional safety requirements (such as fire protection and alarm protocols)
- 12. Cybersecurity requirements (based on the National Institute of Standards and Technology "Framework for Improving Critical Infrastructure Cybersecurity", Version 1.1, April 16, 2018)
- 13. Guaranteed performance standards over the term

Separate PPA price should be provided for the solar facility and the storage facility for Project 2. If different from Project 1 pricing, Solar PPA pricing should be in flat, \$/MWh format for 20-year term and/or 25-year term. Storage PPA pricing should be flat, \$/kW-mo. format for a 15-year term.

Solar Pricing Matrix

Solar Project Site(s)	DC (MW)	AC (MW)	COD	Term	PPA Rate (\$/MWh)

Storage Pricing Matrix

Storage Project Site	Sizes (MW)	Durations (Hours)	COD	Term	PPA Rate (\$/kW-mo)
	2 MW	1 Hour			
	2 MW	2 Hour			
	2 MW	3 Hour			
	3 MW	1 Hour			
	3 MW	2 Hour			
	3 MW	3 Hour			

C. PROJECT 3: STAND-ALONE STORAGE

CVEC is interested in participating in 2-3 MW of stand-alone storage, and Danville is interested in participating in up to two 2-3 MW facilities of stand-alone storage. Potential sites associated with CVEC and Danville's service territories are provided in Appendix A and contemplated near their respective substations. CVEC and Danville will accept proposals with flat ESSA pricing for various storage capacity and duration combinations as outlined in the pricing matrix below. CVEC and Danville anticipate contracting separately for their respective projects, therefore, separate pricing should be provided for sites located in CVEC's territory and sites located in Danville's territory, if applicable. CVEC and Danville request that respondents do not make any site control requests at this time in the RFP process (such activity will be deemed as a negative impact to a respondent's proposal scoring). Respondents should include the following information as part of the proposal:

1. Storage information as described for Project 2 (**Items 2-13**)
2. Construction schedule to meet ITC requirements and expected COD
3. Location, as specific as possible
4. Project site layout and technical diagrams with land requirements

ESSA price for Project 3 should be in flat, \$/kW-mo. for a 15 year term. The Participants are interested in 2 and 3 MW battery sizes with durations of 1, 2, or 3 hours.

Storage Pricing Matrix

Project Site	Sizes (MW)	Durations (Hours)	COD	Term	PPA Rate (\$/kW-mo)
	2 MW	1 Hour			
	2 MW	2 Hour			
	2 MW	3 Hour			
	3 MW	1 Hour			
	3 MW	2 Hour			
	3 MW	3 Hour			

7 Evaluation Criteria

Proposals will be evaluated based on their ability to meet the Participants' individual needs for an economic and reliable behind-the-meter arrangement. Respondents to this solicitation should provide all relevant information necessary to conduct a thorough analysis of their proposal(s). The respondent should clearly explain the pricing to be able to evaluate the total price under the terms of the proposal(s). Proposals will be analyzed over a range of scenarios defined by price and non-price variables.

Prospective respondents are advised that price will be important in the evaluation, however, proposals will also be compared and evaluated on non-price or qualitative criteria. Therefore, the lowest price submittal may not be selected. The proposal should include sufficient detail to evaluate all fixed and variable charges associated with the proposal.

The principal criteria to be used in evaluating Proposals include, but are not limited to:

1. PPA rate of the project
2. Construction schedule and COD
3. Financial viability of the respondent, including its parent or any other guarantor of services under the respondent's proposal
4. Key team members for the respondent, relevant project management experience and capability, and related project experience
5. Possible conflicts of interest and any legal claims
6. Operational viability of the respondent
7. Respondent's history of projects / list of references
8. Respondent avoids discussions with landowners, as requested

Each of these factors is critical to the successful integration of a solar and/or a storage resource into the Participants' overall power supply arrangements. The Participants reserve the right to consider any other factors deemed to be relevant to the successful integration and operation of the storage.

8 Respondent Qualifications and Experience

Respondents shall have successfully completed two other projects similar in size and scope to the service that they are proposing in this RFP. Respondents must demonstrate that they have the financial and technical wherewithal to meet all obligations in their proposals.

9 Confidentiality and Reserved Rights

All proposals shall become the property of the Participants. The Participants will not disclose to third parties any information contained in a proposal that is clearly labeled "CONFIDENTIAL" unless such disclosures are required by law or by order of a court or government agency having appropriate jurisdiction. The Participants reserve the right to disclose proposals to its consultant for the purpose of assistance in evaluating proposals and the Participants will require the consultant to maintain the confidentiality of the document. Notwithstanding the foregoing, nothing set forth herein shall prevent the Participants from fully complying with its obligations under the Virginia public records law. This RFP is solely an invitation to submit proposals.

The Participants reserve the right to:

- reject any and all proposals received in response to this RFP for any reason or no reason;
- waive any requirement in this RFP;
- negotiate solar and/or storage arrangements with more than one respondent simultaneously;
- negotiate solar and/or storage arrangements either individually or collectively;
- terminate negotiations;
- not select the proposal with the lowest price; and
- request clarifications from respondents at any time.

10 Incurred Costs

All costs directly or indirectly related to the preparation of a proposal in response to this RFP shall be the sole responsibility of and shall be borne by the respondent(s) incurring such costs. The Participants shall not reimburse any respondent for any costs incurred in the preparation or submission of a proposal and/or in negotiating an agreement as a result of a proposal.

11 Contract Incorporation

Respondents should be aware that the contents of a selected proposal might become a part of any subsequent contractual agreements. If the Participants decide to move forward with a “short-list” of one or more respondents, they will negotiate contracts with such respondents that will embody the general principles and concepts established in the respondent’s proposal(s). In the event negotiations with a respondent do not, within a reasonable period of time, produce satisfactory contracts to CVEC, Danville, and/or Martinsville, CVEC, Danville, and/or Martinsville reserve the right to terminate those negotiations and pursue other options available to it including, without limitation, entering into negotiations with other parties. Any final contract(s) that result from the proposal evaluation and negotiation processes will be subject to approval by the Participants.

12 Rejection of Proposals

The Participants reserve the right to accept any proposal(s), or to reject any and all proposals and to re-issue this RFP in the event that all proposals are rejected or they deem it otherwise necessary. The Participants reserve the right to revise this RFP, including the desired size (solar and storage) and duration specifications, at any time. Additionally, the Participants reserve the right to accept proposals other than the lowest cost proposal. Factors other than cost, as described above, will be considered in the proposal evaluation process.

13 Supplemental Information

The Participants reserve the right to request additional information from respondents or to request respondents to submit supplemental materials in fulfillment of the content requirements of this RFP or to meet additional information needs. The Participants also reserves the right to waive any technical or format requirements contained in the RFP.

14 Submittal Instructions

One electronic copy of the proposal should be emailed to Garrett Cole, Ryan Johnson, and Erin Shealy at GDS Associates. Each respondent is expected to carefully review the information provided in this RFP as it contains important instructions which should be followed in preparing the proposal(s). Modifications to proposals already received by the Participants will only be accepted if submitted in writing by the respondent prior to the Proposal Due Date. Proposals must be electronically delivered no later than 4:00 p.m. Eastern, **July 1, 2019**.

GDS Associates, Inc.	
Attention:	Mr. Garrett Cole, P.E. Principal
Direct:	770-799-2393
Email:	Garrett.Cole@gdsassociates.com
Attention:	Mr. Ryan Johnson, P.E. Senior Project Manager
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Email:	Ryan.Johnson@gdsassociates.com
Attention:	Ms. Erin Shealy Senior Project Manager
Direct:	770-799-2471
Email:	Erin.Shealy@gdsassociates.com

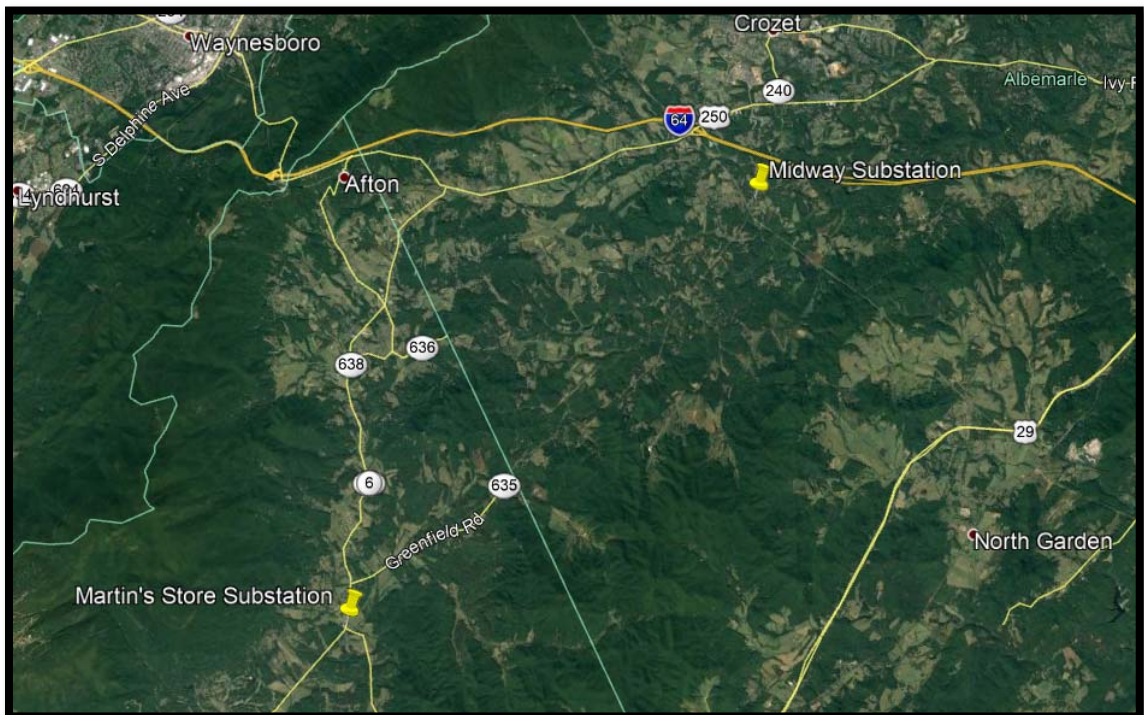
Copies of each proposal will be forwarded to the Participants and their legal counsel.

15 Appendix A

A. CVEC SITES

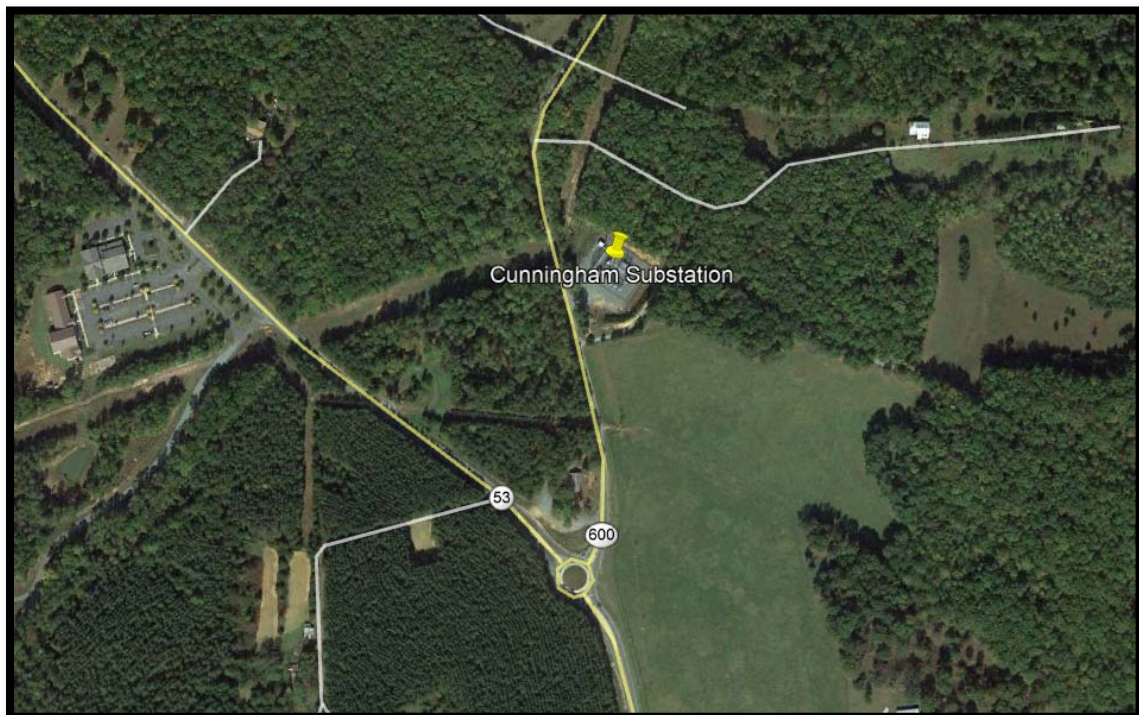
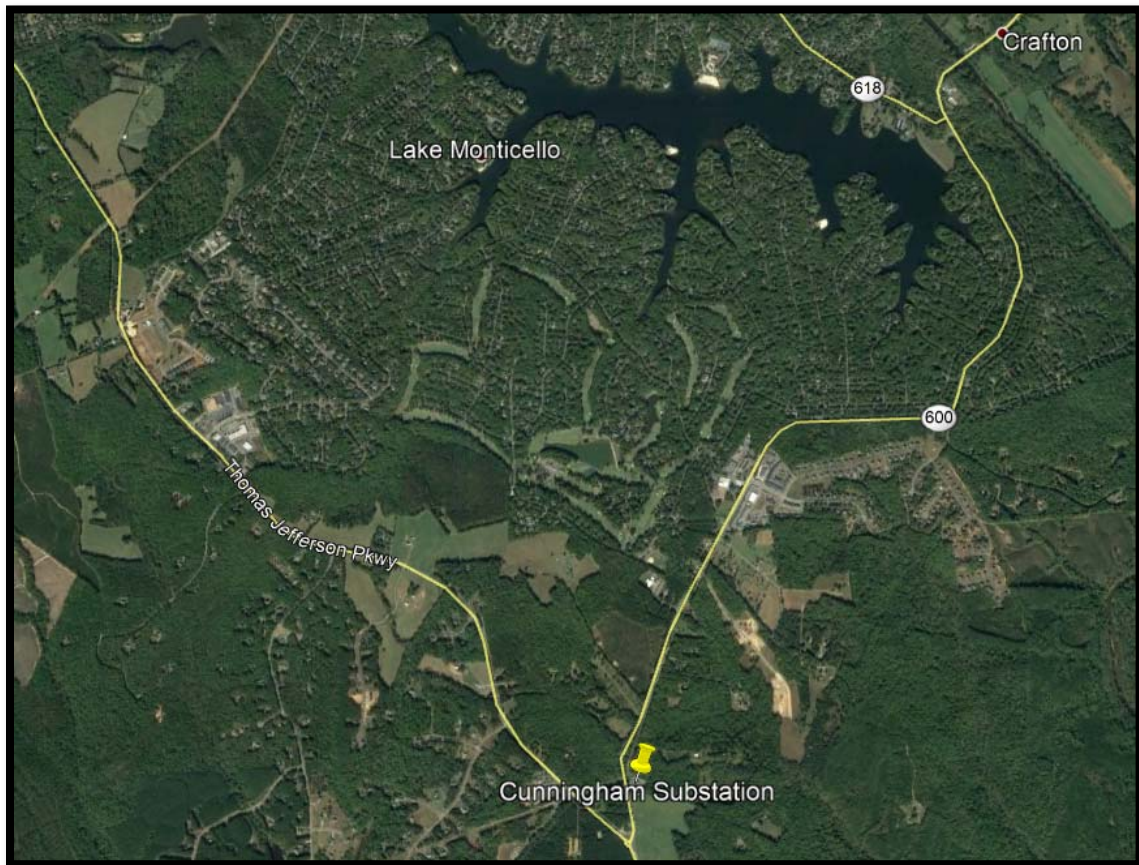
CVEC has specified two areas that are suitable for interconnection: Cunningham and the Martin's Store-Midway. These substations are illustrated in the maps shown below. Specific parcels of land have not been identified. No site studies have been conducted. Respondents should choose a suitable piece of land located near the pre-identified substations and use that piece of land for production and price modeling. No more than 5 MW of solar capacity and up to 3 MW of battery storage can be interconnected within each area.

Sites 1 and 2: Cunningham Substation and Martin's Store-Midway Substation



15.A.1 Site 1: Cunningham Substation

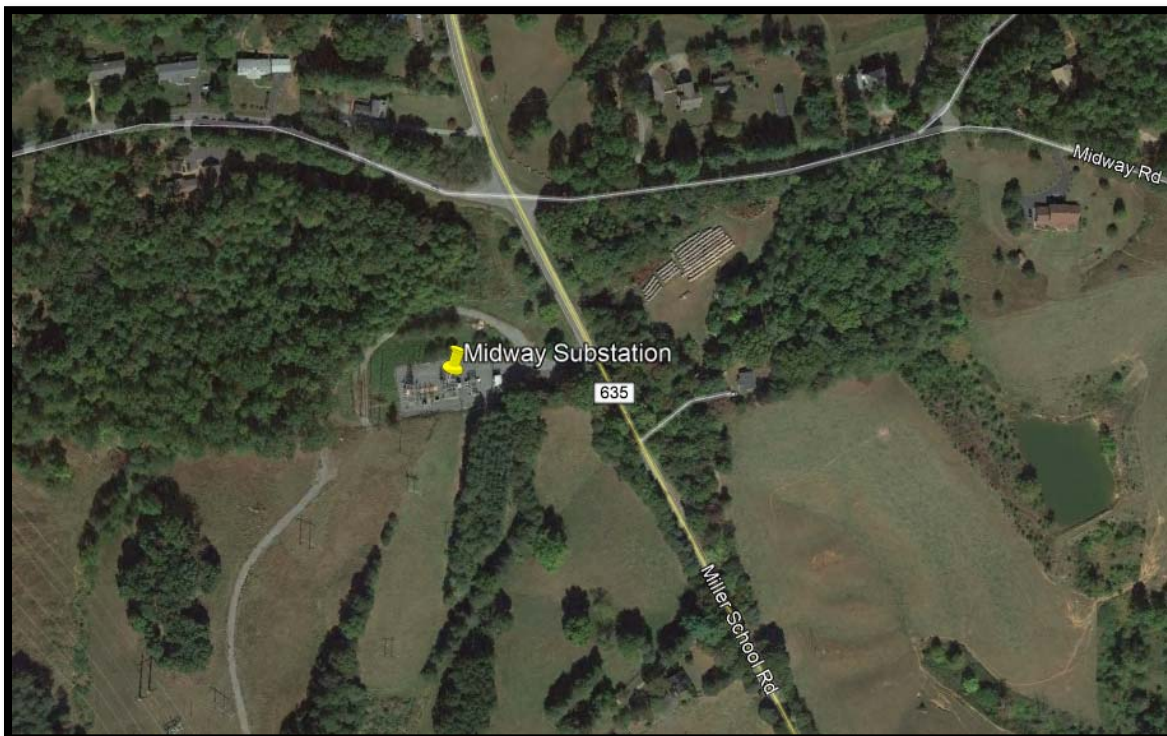
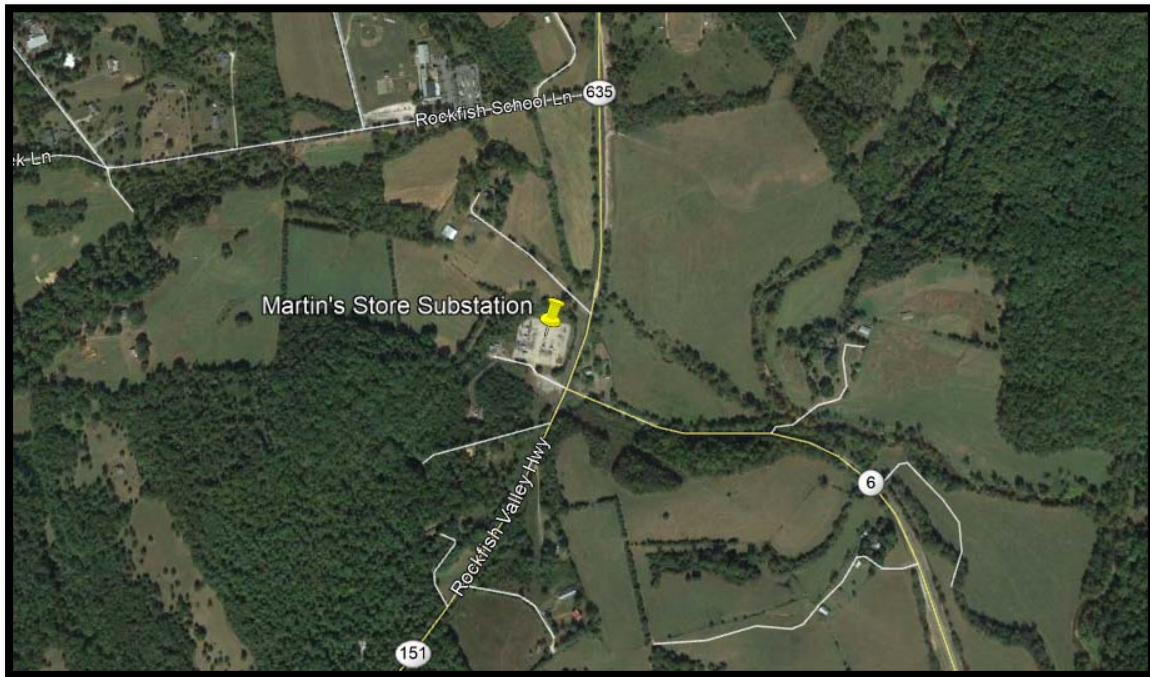
Longitude/Latitude: 37°53'12.52"N, 78°19'13.84"W



15.A.2 Site 2: Martin's Store-Midway Substation

Longitude/Latitude: 37°55'6.47"N, 78°50'25.80"W

Longitude/Latitude: 38° 1'35.74"N, 78°42'25.69"W

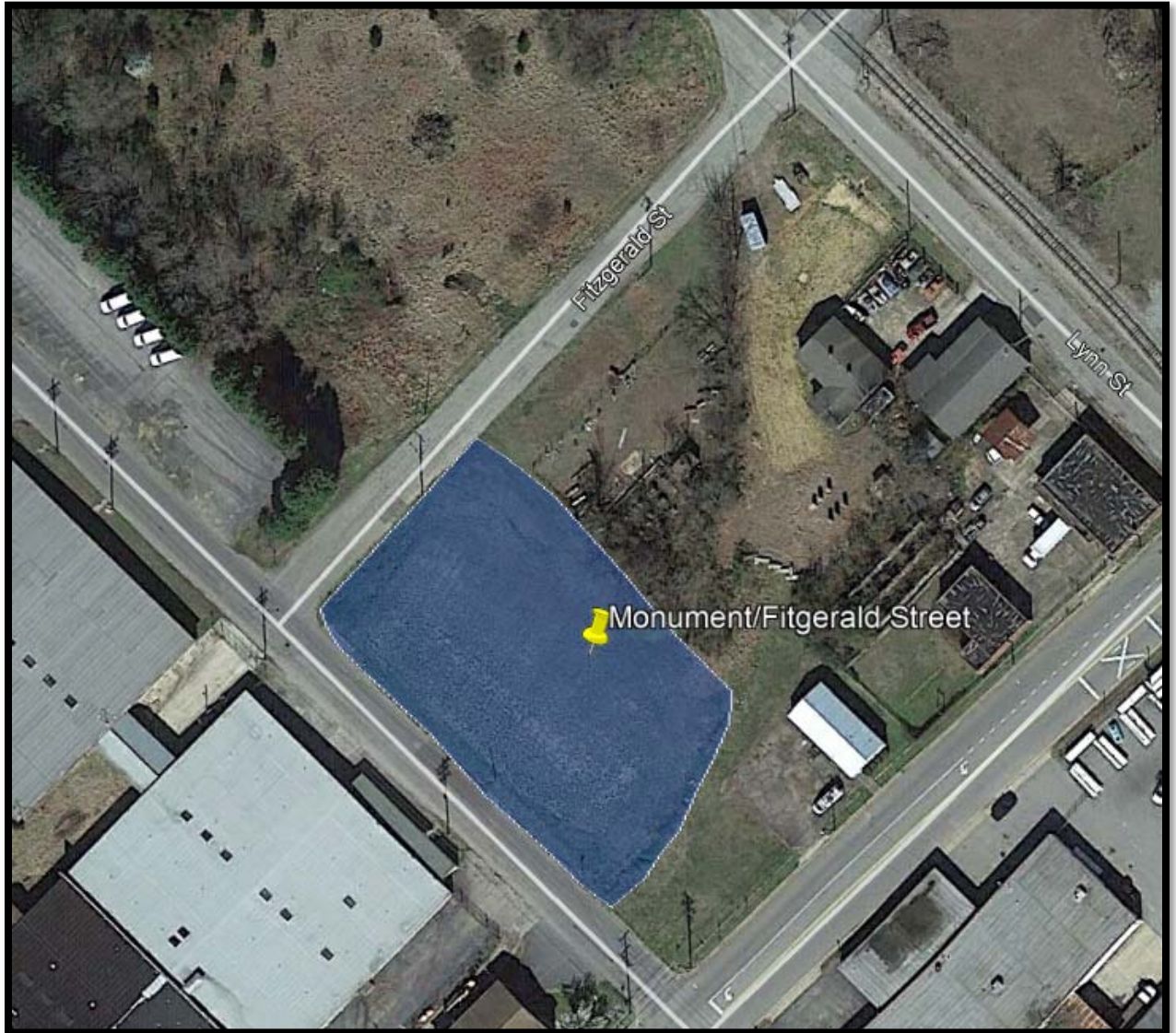


B. DANVILLE SITE

Danville has located one potential site shown below within the blue shaded area. The intended use for the site is stand-alone storage. No studies have been conducted at these sites (soil, environmental, etc). The site longitude & latitude coordinates are listed above the photo.

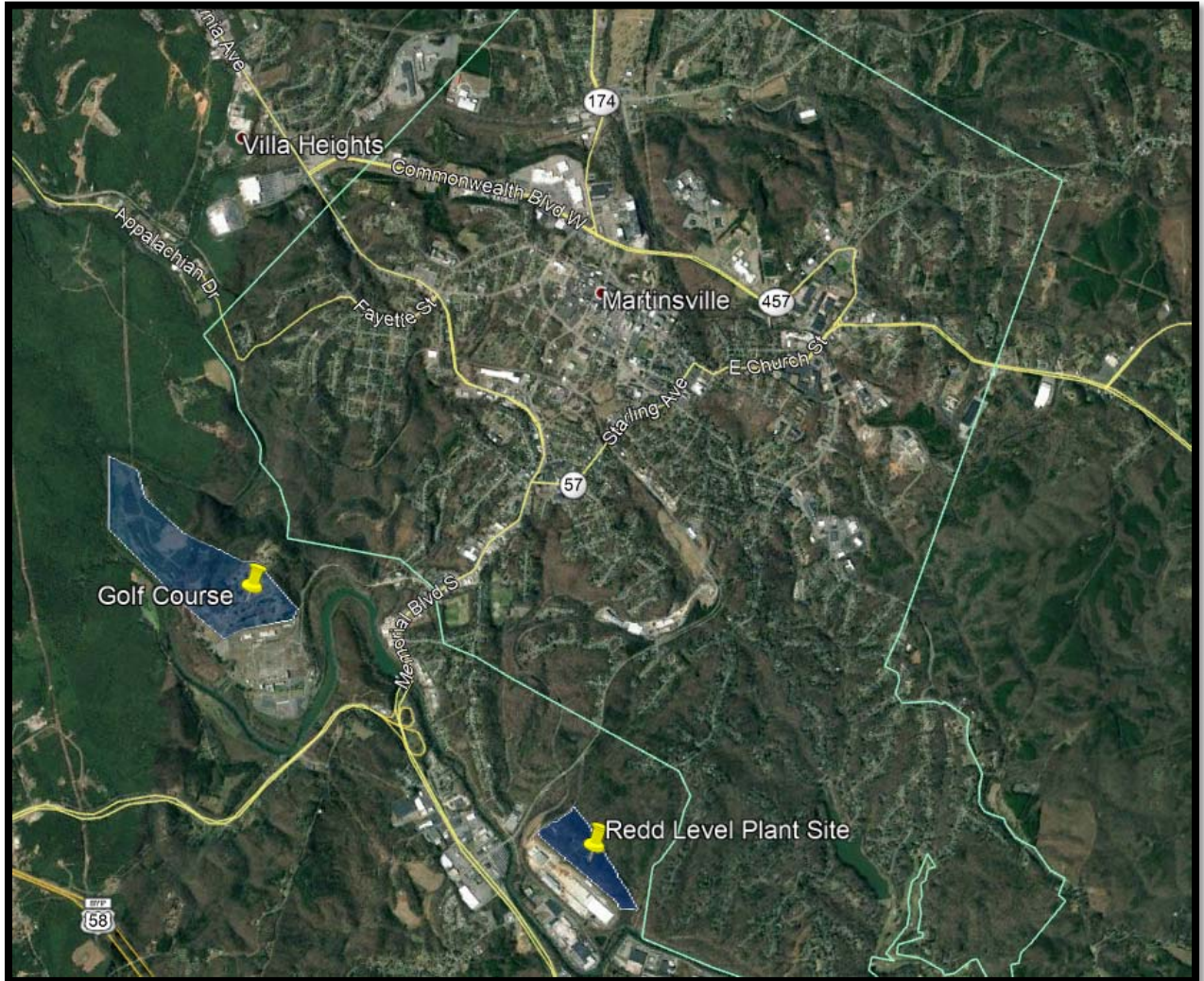
15.B.1 Site 1: Monument/Fitzgerald Street

Longitude/Latitude: 36°34'48"N 79°22'51"W



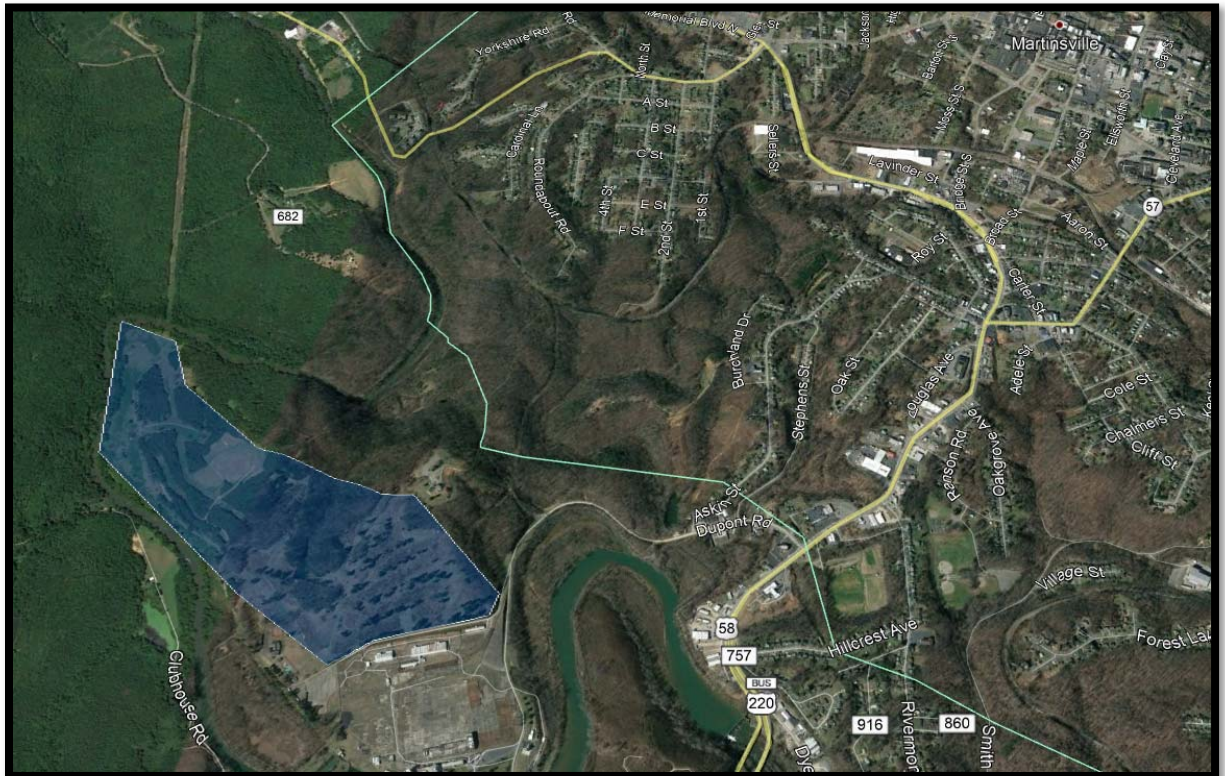
C. MARTINSVILLE SITES

Martinsville has located two potential sites shown below within the blue shaded areas. The intended use for the site is either solar or solar with storage. No studies have been conducted at these sites (soil, environmental, etc). The site longitude & latitude coordinates are listed above the photo.



15.C.1 Site 1: Martinsville Golf Course

Longitude/Latitude: 36°40'2.67"N, 79°53'47.55"W



15.C.2 Site 2: Redd Level Plant

Longitude/Latitude: 36°39'17.17"N, 79°51'54.58"W

