

**NY Mooers IV, LLC**  
**CCIDA Financial Aid Application**

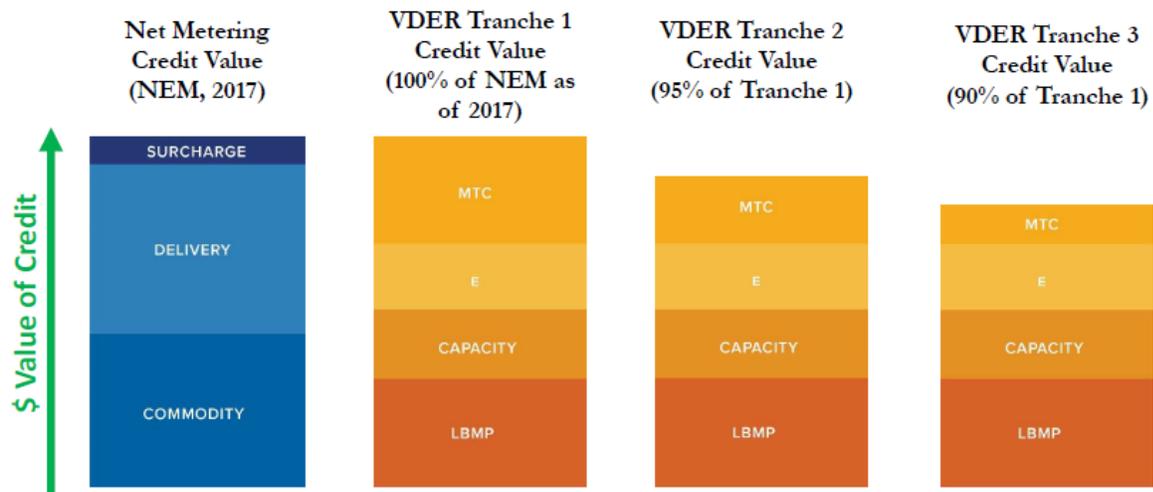
This document contains information which supplements the application for financial assistance from the Clinton County Industrial Development Agency.

**Attachment for Section C, Question 11(a): Revenue Decrease Explanation**

Since Delaware River Solar (“DRS”) began operating, the compensation system through which solar projects generate revenue has fundamentally changed, resulting in DRS seeing a significant decrease in the expected value of a large subset of projects under development. Prior to 2017, the New York State program which allowed solar projects to generate revenue was Net Metering (“NEM”), under which a solar array injected energy into the grid and was given “kWh credits” by the utility. These credits were sold to customers, generating revenue for the solar projects; for each kWh credit a customer purchased, the customer’s bill decreased by that number of kWhs. During 2017, the Value of Distributed Energy Resources (“VDER”) program replaced the NEM program.

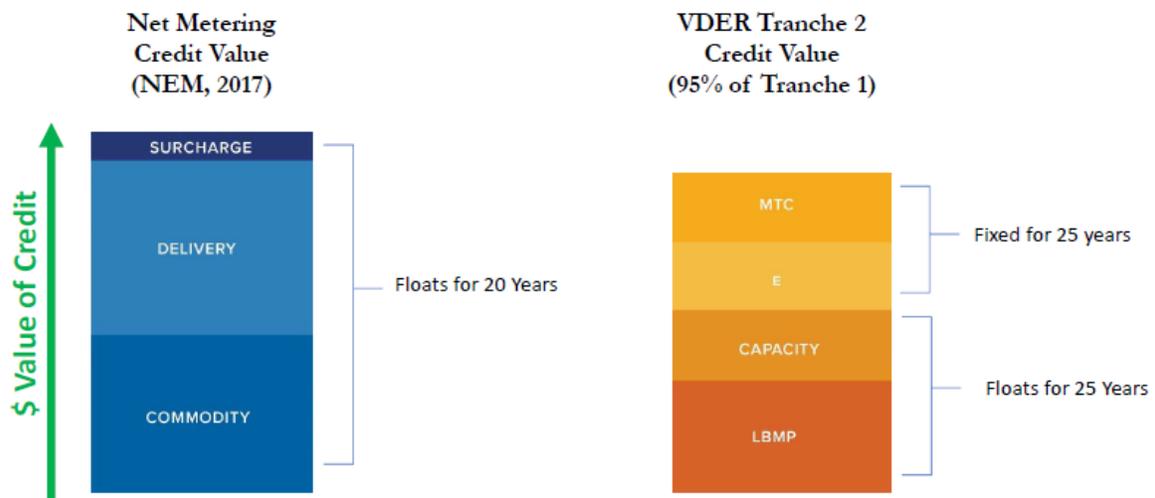
Under the VDER program, when a solar array provides energy into the grid, it is no longer given kWh credits. Instead, the utility uses a formula to calculate a dollar-valued credit given to the array, which are then purchased by the customer at a discount to the credit’s face value and used to reduce the customers’ bills dollar for dollar. The value of the VDER credit is determined by a formula that adds together multiple values into a “value stack” which is the dollar value assigned to credits produced by the solar array. The value represents the benefits that are produced by the array, including the avoided cost of energy purchases by the utility, environmental benefits, and avoided investment cost for the utility. This formula makes the total dollar-value of the credit less than the dollar/kWh rate being charged by the utility, and therefore less than the NEM credit value. As a temporary fix for this, the VDER system introduced an additional value called the MTC. This was temporary due to the use of tranches of specific MW sized, which would fill as more projects entered the VDER system (*see Exhibit 1 below*). The MTC decreased in value for every tranche.

**Exhibit 1 (Referenced in Answer to Section C, Question 11a):**



In addition, not all of the components of the VDER float over time, as they do in the NEM program (see Exhibit 2 below). DRS expects the VDER to escalate at a rate between 1% and 2%, whereas the NEM escalated between 2% and 3%.

**Exhibit 2 (Referenced in Answer to Section C, Question 11a):**



Due to the VDER, the proposed project (Boas #4) will earn 11% less revenue in year one and 18% less revenue over 20 years than it would have operating under the NEM program (see Exhibit 3 below). Because of this lower revenue, Boas #4 will yield a significantly higher expense ratio of 38.6%, when compared to 31.9% for an identical NEM project. With no PILOT payments at all, the VDER still would yield a 32.3% expense ratio (see Exhibit 4 below).

**Exhibit 3 (Referenced in Answer to Section C, Question 11a):**

**NEM Project: Boas #1, #2, or #3**

Year	\$ per kWh	kWh	Revenue
1	0.0908	673,265	61,123
2	0.0926	3,482,580	322,649
3	0.0950	3,465,150	329,060
4	0.0973	3,447,720	335,590
5	0.0998	3,430,291	342,241
6	0.1023	3,412,861	349,015
7	0.1048	3,395,431	355,913
8	0.1074	3,378,002	362,938
9	0.1101	3,360,572	370,092
10	0.1129	3,343,142	377,377
11	0.1157	3,325,712	384,795
12	0.1186	3,308,283	392,347
13	0.1216	3,290,853	400,037
14	0.1246	3,273,423	407,867
15	0.1277	3,255,993	415,837
16	0.1309	3,238,564	423,951
17	0.1342	3,221,134	432,211
18	0.1375	3,203,704	440,620
19	0.1410	3,186,274	449,178
20	0.1445	3,168,845	457,889
<b>Sum</b>		<b>63,861,799</b>	<b>7,410,732</b>

**VDER Tranche 2 Project: Boas #4**

Year	\$ per kWh	kWh	Revenue
1	0.0809	673,265	54,449
2	0.0816	3,482,580	284,247
3	0.0828	3,465,150	287,087
4	0.0841	3,447,720	290,055
5	0.0855	3,430,291	293,153
6	0.0868	3,412,861	296,387
7	0.0883	3,395,431	299,761
8	0.0898	3,378,002	303,279
9	0.0913	3,360,572	306,945
10	0.0930	3,343,142	310,766
11	0.0946	3,325,712	314,746
12	0.0964	3,308,283	318,890
13	0.0982	3,290,853	323,203
14	0.1001	3,273,423	327,691
15	0.1021	3,255,993	332,360
16	0.1041	3,238,564	337,216
17	0.1063	3,221,134	342,264
18	0.1085	3,203,704	347,511
19	0.1108	3,186,274	352,962
20	0.1132	3,168,845	358,626
<b>Sum</b>		<b>63,861,799</b>	<b>6,081,598</b>

VDER Revenue / NEM Revenue
89%
88%
87%
86%
86%
85%
84%
84%
83%
82%
82%
81%
81%
81%
80%
80%
80%
79%
79%
79%
78%
<b>82%</b>

<- Y1 Revenue Difference

<- Total Revenue Difference

**Exhibit 4 (Referenced in Answer to Section C, Question 11a):**

**NEM Tranche 0 Project**  
Including Tranche 0 PILOT

Average Expense Ratio 31.9%

Year	Revenue	Project Expenses Inc. PILOT	Expenses as a % of Revenue
1	61,123	(26,934)	44.1%
2	322,649	(107,942)	33.5%
3	329,060	(109,184)	33.2%
4	335,590	(110,450)	32.9%
5	342,241	(111,741)	32.6%
6	349,015	(113,058)	32.4%
7	355,913	(114,402)	32.1%
8	362,938	(115,773)	31.9%
9	370,092	(117,170)	31.7%
10	377,377	(118,596)	31.4%
11	384,795	(120,051)	31.2%
12	392,347	(121,534)	31.0%
13	400,037	(123,047)	30.8%
14	407,867	(124,591)	30.5%
15	415,837	(126,165)	30.3%
16	423,951	(127,771)	30.1%
17	432,211	(129,408)	29.9%
18	440,620	(131,079)	29.7%
19	449,178	(132,783)	29.6%
20	457,889	(134,521)	29.4%

**VDER Tranche 2 Project**  
Including Tranche 0 PILOT

Average Expense Ratio 38.6%

Year	Revenue	Project Expenses Inc. PILOT	Expenses as a % of Revenue
1	54,449	(26,934)	49.5%
2	284,247	(107,942)	38.0%
3	287,087	(109,184)	38.0%
4	290,055	(110,450)	38.1%
5	293,153	(111,741)	38.1%
6	296,387	(113,058)	38.1%
7	299,761	(114,402)	38.2%
8	303,279	(115,773)	38.2%
9	306,945	(117,170)	38.2%
10	310,766	(118,596)	38.2%
11	314,746	(120,051)	38.1%
12	318,890	(121,534)	38.1%
13	323,203	(123,047)	38.1%
14	327,691	(124,591)	38.0%
15	332,360	(126,165)	38.0%
16	337,216	(127,771)	37.9%
17	342,264	(129,408)	37.8%
18	347,511	(131,079)	37.7%
19	352,962	(132,783)	37.6%
20	358,626	(134,521)	37.5%

**VDER Tranche 2 Project**  
With No PILOT

Average Expense Ratio 32.3%

Year	Revenue	Project Expenses Inc. PILOT	Expenses as a % of Revenue
1	54,449	(22,134)	40.7%
2	284,247	(88,742)	31.2%
3	287,087	(89,984)	31.3%
4	290,055	(91,250)	31.5%
5	293,153	(92,541)	31.6%
6	296,387	(93,858)	31.7%
7	299,761	(95,202)	31.8%
8	303,279	(96,573)	31.8%
9	306,945	(97,970)	31.9%
10	310,766	(99,396)	32.0%
11	314,746	(100,851)	32.0%
12	318,890	(102,334)	32.1%
13	323,203	(103,847)	32.1%
14	327,691	(105,391)	32.2%
15	332,360	(106,965)	32.2%
16	337,216	(108,571)	32.2%
17	342,264	(110,208)	32.2%
18	347,511	(111,879)	32.2%
19	352,962	(113,583)	32.2%
20	358,626	(115,321)	32.2%

**Attachment for Section F, Question 1: PILOT Reduction Request**

DRS is requesting a PILOT reduction of 50%. This will bring average cost expense ratios from 38.6% to 35.5%, which is still higher than the 31.9% average under the NEM program (see Exhibit 5 below). A 50% reduction in the PILOT will improve the economic viability of constructing and operating projects under the VDER program. In summary, the revenue available to support operating expenses under the VDER program is significantly lower than those under the NEM program. The primary drivers of this are the lower credit value under the VDER program and the fixed components that make up the “value stack,” which result in lower-than-inflation revenue escalation.

**Exhibit 5 (Referenced in Answer to Section F, Question 1):**

<u>NEM Tranche 0 Project</u> <i>Including Tranche 0 PILOT</i>				<u>VDER Tranche 2 Project</u> <i>Including Requested VDER PILOT</i>				<u>Program PILOT Comparison</u>		
Average Expense Ratio 31.9%				Average Expense Ratio 35.5%						
Year	Revenue	Project Expenses Inc. PILOT	Expenses as a % of Revenue	Revenue	Project Expenses Inc. PILOT	Expenses as a % of Revenue	NEM Tranche 0 PILOT	Requested VDER PILOT	Requested VDER PILOT	
1	61,123	(26,934)	44.1%	54,449	(24,534)	45.1%	(4,800)	(2,400)	-50.0%	
2	322,649	(107,942)	33.5%	284,247	(98,342)	34.6%	(19,200)	(9,600)	-50.0%	
3	329,060	(109,184)	33.2%	287,087	(99,584)	34.7%	(19,200)	(9,600)	-50.0%	
4	335,590	(110,450)	32.9%	290,055	(100,850)	34.8%	(19,200)	(9,600)	-50.0%	
5	342,241	(111,741)	32.6%	293,153	(102,141)	34.8%	(19,200)	(9,600)	-50.0%	
6	349,015	(113,058)	32.4%	296,387	(103,458)	34.9%	(19,200)	(9,600)	-50.0%	
7	355,913	(114,402)	32.1%	299,761	(104,802)	35.0%	(19,200)	(9,600)	-50.0%	
8	362,938	(115,773)	31.9%	303,279	(106,173)	35.0%	(19,200)	(9,600)	-50.0%	
9	370,092	(117,170)	31.7%	306,945	(107,570)	35.0%	(19,200)	(9,600)	-50.0%	
10	377,377	(118,596)	31.4%	310,766	(108,996)	35.1%	(19,200)	(9,600)	-50.0%	
11	384,795	(120,051)	31.2%	314,746	(110,451)	35.1%	(19,200)	(9,600)	-50.0%	
12	392,347	(121,534)	31.0%	318,890	(111,934)	35.1%	(19,200)	(9,600)	-50.0%	
13	400,037	(123,047)	30.8%	323,203	(113,447)	35.1%	(19,200)	(9,600)	-50.0%	
14	407,867	(124,591)	30.5%	327,691	(114,991)	35.1%	(19,200)	(9,600)	-50.0%	
15	415,837	(126,165)	30.3%	332,360	(116,565)	35.1%	(19,200)	(9,600)	-50.0%	
16	423,951	(127,771)	30.1%	337,216	(118,171)	35.0%	(19,200)	(9,600)	-50.0%	
17	432,211	(129,408)	29.9%	342,264	(119,808)	35.0%	(19,200)	(9,600)	-50.0%	
18	440,620	(131,079)	29.7%	347,511	(121,479)	35.0%	(19,200)	(9,600)	-50.0%	
19	449,178	(132,783)	29.6%	352,962	(123,183)	34.9%	(19,200)	(9,600)	-50.0%	
20	457,889	(134,521)	29.4%	358,626	(124,921)	34.8%	(19,200)	(9,600)	-50.0%	