

Line No.	Renewable Resource	RECs	MWh (Energy)	Total Cost - Presson Exhibit No. 2	Avoided Cost	Incremental Cost	Avoided Cost Recovered in Fuel Cost Adjustment Rider
1	[REDACTED]						
2							
3							
4							
5							
6							
7	[REDACTED]						
	Presson Exhibit No. 2						
8	Other Incremental			\$ 1,633,962		\$ 1,633,962 (f)	
9	Solar Rebate Program			\$ 2,010,155	Presson Exhibit No. 2	\$ 2,010,155 (g)	
10	Research			\$ 767,383		\$ 767,383 (h)	
11	<b>Total</b>			<b>\$ 195,515,698</b>		<b>\$ 42,792,784 (below)</b>	
	Presson Exhibit No. 2						
	<b>Incremental cost category</b>					<b>Incremental Cost</b>	<b>Percent of Total Incremental Cost</b>
12	[REDACTED]						
13							
14	<b>Total</b>					<b>\$ 42,792,784 (above)</b>	<b>100.00%</b>
	<b>Allocate estimated incremental cost of solar resources between solar compliance requirement and general compliance requirement:</b>						
15	[REDACTED]						
16							
17							
18							
19							
20							

REDACTED VERSION

DUKE ENERGY PROGRESS, LLC  
 Docket No. E-2, Sub 1293  
 Compliance Cost for the Billing Period December 1, 2022 to November 30, 2023

Williams Exhibit No. 1  
 Page 2 of 2  
 June 14, 2022

Line No.	Renewable Resource	RECs	MWh (Energy)	Total Cost	Avoided Cost	Incremental Cost	Avoided Cost Recovered in Fuel Cost Adjustment Rider
1	[REDACTED]						
2							
3							
4							
5							
6							
7							
8	[REDACTED]						
	Presson Exhibit No. 2						
9	Other Incremental cost			\$ 1,663,435	Presson Ex. No. 2	\$ 1,663,435	(g)
10	Estimated receipts related to contract performance			\$ (81,000)		\$ (81,000)	(h)
11	Solar Rebate Program			\$ 2,497,768		\$ 2,497,768	(i)
12	Research			\$ 915,000		\$ 915,000	(j)
13	<b>Total</b>			<b>\$ 178,286,747</b>		<b>\$ 42,503,807</b>	<b>(below)</b>
				Presson Exhibit No. 2			
	<b>Incremental cost category</b>					<b>Incremental Cost - Retail</b>	<b>Percent of Total Incremental Cost</b>
14	[REDACTED]						
15							
16	<b>Total</b>					<sup>(1)</sup> \$ 42,503,807	100.00%
						(above)	
	<b>Allocate estimated incremental cost of solar resources between solar compliance requirement and general compliance requirement:</b>						
17	[REDACTED]						
18							
19							
20							
21							
22							

Jun 14 2022

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Compliance Costs - EMF Period April 1, 2021 to March 31, 2022

Calculate Set-aside and other incremental costs per customer class:

Line No.	Customer Class	Number of REPS Accounts <sup>(1)</sup>	Annual per account cost cap	Calculated annual revenue cap	Cost cap allocation factor	Allocated annual Set-aside, Other Incremental, Solar Rebate Program, and Research Cost
1	Residential	1,281,136	\$ 27	\$ 34,590,672	51.5%	\$ 15,539,380
2	General	205,801	\$ 150	\$ 30,870,150	45.9%	\$ 13,867,986
3	Industrial	1,747	\$ 1,000	\$ 1,747,000	2.6%	\$ 784,815
4	Totals	<u>1,488,684</u>		<u>\$ 67,207,822</u>	100%	<u>\$ 30,192,181</u>

Williams Ex No. 1, Pg 1 Line 12

Calculate General Requirement incremental costs per customer class:

Line No.	Customer Class	Number of RECs for General compliance <sup>(3)</sup> <sup>(4)</sup>	% of EE RECs supplied by class <sup>(2)</sup>	REC requirement supplied by EE by class <sup>(b)</sup>	Number of General RECs net of EE <sup>(c) = (a) - (b)</sup>	General cost allocation factor <sup>(e) = (c) / (d)</sup>	Allocated annual General incremental costs
5	Residential		53.97%			49.7%	\$ 6,260,194
6	General		44.04%			47.3%	\$ 5,958,303
7	Industrial		1.99%			3.0%	\$ 382,106
8	Totals		100.00%			100.0%	\$ 12,600,603

Williams Ex No. 1, Pg 1 Line 13

Total cost allocation by customer class - EMF Period:

	Total Incremental REPS cost by class	% Incremental REPS cost by class
9 Residential	\$ 21,799,574	50.94%
10 General	\$ 19,826,289	46.33%
11 Industrial	\$ 1,166,921	2.73%
12 Total	<u>\$ 42,792,784</u>	100.00%

Williams Ex. No. 1 Pg 1 Line No. 14

- (1) Average number of accounts subject to REPS charge during the EMF Period.
- (2) EE allocated to account type according to actual relative contribution by customer class of EE RECs.
- (3) Total General RECs per note (4) \* "Cost Cap Allocation Factor" by class per line Nos. 1-3 above.
- (4) General REC requirement for calendar 2021 (total requirement net of solar, poultry, and swine set-asides)
- (5) Total REC requirement met with EE savings - capped at 40% total - allocated by class according to contribution by class

Total compliance requirement - calendar 2021	4,521,943
Maximum allowed to be met with EE savings	40%
REC requirement supplied by EE savings	<u>1,808,777</u>

Calculate incremental cost under/(over) collection per customer class - EMF Period:

Line No.	Customer class	Allocated annual Set-aside, Other Incremental, Solar Rebate Program, and Research cost	Allocated annual General incremental costs	Total incremental costs incurred (a)	Actual REPS rider revenues realized (b)	REPS EMF - under/(over)-collection, before interest (a) - (b) - (c)	Interest on over-collection (1)	REPS EMF - under/(over)-collection
1	Residential	\$ 15,539,380	\$ 6,260,194	\$ 21,799,574	\$ 19,175,394	\$ 2,624,180	\$ -	\$ 2,624,180
2	General	\$ 13,867,986	\$ 5,958,303	\$ 19,826,289	\$ 18,369,552	\$ 1,456,737	\$ -	\$ 1,456,737
3	Industrial	\$ 784,815	\$ 382,106	\$ 1,166,921	\$ 1,103,890	\$ 63,031	\$ -	\$ 63,031
4	<b>Total</b>	<b>\$ 30,192,181</b>	<b>\$ 12,600,603</b>	<b>\$ 42,792,784</b>	<b>\$ 38,648,836</b>	<b>\$ 4,143,948</b>	<b>\$ -</b>	<b>\$ 4,143,948</b>

<<<Williams Exhibit No. 2 page 1>>>

Notes:

- (1) Interest calculated at annual rate of 10% for number months from mid-point of EMF period to mid-point of prospective rider billing period.

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JUN 14 2022



Projected Compliance Costs - Billing Period December 1, 2022 - November 30, 2023

Calculate Set-aside and other incremental costs per customer class:

Line No.	Customer Class	Number of REPS Accounts <sup>(1)</sup>	Annual per account cost cap	Calculated annual revenue cap	Cost cap allocation factor	Allocated annual Set-aside, Other Incremental, Solar Rebate Program, and Research Cost
1	Residential	1,303,077	\$ 27	\$ 35,183,079	51.5%	\$ 15,304,664
2	General	208,888	\$ 150	\$ 31,333,200	45.9%	\$ 13,629,963
3	Industrial	1,737	\$ 1,000	\$ 1,737,000	2.5%	\$ 755,596
4	Totals	<u>1,513,702</u>		<u>\$ 68,253,279</u>	100.0%	<u>\$ 29,690,223</u>

Williams Ex No. 1, Pg 2  
Line 14

Calculate General Requirement incremental costs per customer class:

Line No.	Customer Class	Number of RECs for General compliance <sup>(3) (a)</sup>	% of EE RECs supplied by class <sup>(2)</sup>	REC requirement supplied by EE by class <sup>(b)</sup>	Number of General RECs net of EE (c) = (a) - (b)	General cost allocation factor (e) = (c) / (d)	Allocated annual General incremental costs
5	Residential		53.97%			49.7%	\$ 6,366,742
6	General		44.04%			47.3%	\$ 6,066,132
7	Industrial		1.99%			3.0%	\$ 380,710
8	Totals		100.0%			100.0%	\$ 12,813,584

Williams Ex No. 1, Pg 2  
Line 15

Total cost allocation by customer class:

	Total Incremental REPS cost by class	% Incremental REPS cost by class
9 Residential	\$ 21,671,406	50.99%
10 General	\$ 19,696,095	46.34%
11 Industrial	\$ 1,136,306	2.67%
12 Total	<u>\$ 42,503,807</u>	100.00%

Williams Ex No. 1, Pg 2  
Line 16

- (1) Projected number of accounts subject to REPS charge during the billing period.
- (2) EE allocated to account type according to actual projected contribution by customer class of EE RECs.
- (3) Total General RECs per note (4) \* "Cost Cap Allocation Factor" by class per line Nos. 1-3 above.
- (4) Forecast general REC requirement for Billing Period (Total requirement net of solar, poultry, and swine set-asides)
- (5) Total REC requirement projected to be met with EE savings - capped at 40% total - allocated by class according to contribution by class

Forecast total compliance requirement - billing period	4,836,674
Maximum allowed to be met with EE savings	40%
Forecast REC requirement supplied by EE savings	<u>1,934,670</u>

**DUKE ENERGY PROGRESS, LLC**  
**Docket No. E-2, Sub 1293**

**Williams Exhibit No. 3**  
**Page 2 of 2**  
**June 14, 2022**

**Projected Compliance Costs - Billing Period December 1, 2022 - November 30, 2023**

**Calculate incremental cost to collect per customer class - Billing Period:**

<b>Line No.</b>	<b>Total</b>	<b>Allocated annual Set-aside, Other Incremental, Solar Rebate Program, and Research cost</b>	<b>Allocated annual General incremental costs</b>	<b>Total incremental cost</b>
1	Residential	\$ 15,304,664	\$ 6,366,742	\$ 21,671,406
2	General	\$ 13,629,963	\$ 6,066,132	\$ 19,696,095
3	Industrial	\$ 755,596	\$ 380,710	\$ 1,136,306
4	<b>Total</b>	<b>\$ 29,690,223</b>	<b>\$ 12,813,584</b>	<b>\$ 42,503,807</b>

Williams Exhibit No. 3,  
Pg 1, line 4

Williams Exhibit No. 3,  
Pg 1, line 8

Williams Exhibit No.  
3, Pg 1, line 12





DUKE ENERGY PROGRESS, LLC  
Docket No. E-2, Sub 1293

Williams Exhibit No. 4  
Page 1 of 1  
June 14, 2022

**Calculate DEP NC Retail monthly REPS rider components:**

Line No.	Customer class	Total projected number of accounts -DEP NC retail <sup>(1)</sup>	Annual REPS EMF under/(over)-collection	Receipts for contract amendments, penalties, change-of-control, etc. <sup>(2)</sup>	Total EMF costs/(credits)	Monthly EMF Rider	Projected total incremental REPS costs	Monthly REPS Rider
1	Residential	1,303,077	\$ 2,624,180	\$ (80,995)	\$ 2,543,185	\$ 0.16	\$ 21,671,406	\$ 1.39
2	General	208,888	\$ 1,456,737	\$ (72,284)	\$ 1,384,453	\$ 0.55	\$ 19,696,095	\$ 7.86
3	Industrial	1,737	\$ 63,031	\$ (4,091)	\$ 58,940	\$ 2.83	\$ 1,136,306	\$ 54.51
4			<b>\$ 4,143,948</b>	<b>\$ (157,370)</b>	<b>\$ 3,986,578</b>		<b>\$ 42,503,807</b>	

Williams Ex. No. 2, Pg 2

Williams Ex. No. 3, Pg 2

**Compare total annual REPS charges per account to per-account cost caps:**

Line No.	Customer class	Monthly EMF Rider	Monthly REPS Rider	Combined Monthly Rider	Regulatory Fee Multiplier	Monthly EMF rider including regulatory fee	Monthly REPS rider including regulatory fee	Combined monthly rider including regulatory fee	Combined annual rider including regulatory fee	Annual per account cost cap
5	Residential	\$ 0.16	\$ 1.39	\$ 1.55	1.001302	\$ 0.16	\$ 1.39	\$ 1.55	\$ 18.60	\$ 27.00
6	General	\$ 0.55	\$ 7.86	\$ 8.41	1.001302	\$ 0.55	\$ 7.87	\$ 8.42	\$ 101.04	\$ 150.00
7	Industrial	\$ 2.83	\$ 54.51	\$ 57.34	1.001302	\$ 2.83	\$ 54.58	\$ 57.41	\$ 688.92	\$ 1,000.00

Notes:

- (1) Projected average number of accounts subject to REPS charge during the billing period.
- (2) Credit for receipts for contract amendments, penalties, change-of-control, etc

Customer Class	Total contract receipts - EMF period Apr 2021 - Mar 2022	Allocation to customer class - Williams Exhibit No. 2, Pg 1	receipts for fees, contract amendments, penalties, change-of-control, etc.
Residential		51.47%	\$ (80,995)
General		45.93%	\$ (72,284)
Industrial		2.60%	\$ (4,091)
Total contract payments received - EMF Period	\$ (157,370)	100.00%	\$ (157,370)

Presson Exhibit No. 2



**DUKE ENERGY PROGRESS, LLC**  
**Docket No. E-2, Sub 1293**

**Williams Exhibit No. 5**  
**Page No. 1 of 2**  
**June 14, 2022**

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**JUN 14 2022**

**Worksheet detailing energy efficiency certificate ("EEC") inventory**

	<u>EECs</u>	<u>Reference</u>
EECs carried forward at Dec 31, 2015	3,746,996	2015 Compliance Report - Docket No. E-2, Sub 1109
EECs generated for 2016 per Company's annual update	1,854,388	Company workpapers
EEC inventory balance adjustment - conversion to measure life	(123,943)	Company workpapers
EEC inventory balance 2016 adjustment for EM&V results	(83,074)	Company workpapers
Less: EECs used for compliance for 2016	<u>561,829</u>	2016 Compliance Report - Docket No. E-2, Sub 1144
EECs carried forward at Dec 31, 2016	4,832,538	2016 Compliance Report - Docket No. E-2, Sub 1144
EECs generated for 2017 per Company's annual update	2,026,234	Company workpapers
EEC inventory balance 2017 adjustment for EM&V results	(61,225)	Company workpapers
Less: EECs used for compliance for 2017	<u>559,087</u>	2017 Compliance Report - Docket No. E-2, Sub 1175
EECs carried forward at Dec 31, 2017	6,238,460	2017 Compliance Report - Docket No. E-2, Sub 1175
EECs generated for 2018 per Company's annual update	2,182,561	Company workpapers
EEC inventory balance 2018 adjustment for EM&V results	2,467	Company workpapers
Less: EECs used for compliance for 2018	<u>920,747</u>	2018 Compliance Report - Docket No. E-2, Sub 1205
EECs carried forward at Dec 31, 2018	7,502,741	2018 Compliance Report - Docket No. E-2, Sub 1205
EECs generated for 2019 per Company's annual update	2,257,396	Company workpapers
EEC inventory balance 2019 adjustment for EM&V results	21,274	Company workpapers
Less: EECs used for compliance for 2019	<u>967,181</u>	2019 Compliance Report - Docket No. E-2, Sub 1251
EECs carried forward at Dec 31, 2019	8,814,231	2019 Compliance Report - Docket No. E-2, Sub 1251
EECs generated for 2020 per Company's annual update	2,270,987	Company workpapers
EEC inventory balance 2020 adjustment for EM&V results	310	Company workpapers
Less: EECs used for compliance for 2020	<u>948,455</u>	2020 Compliance Report - Docket No. E-2, Sub 1276
EECs carried forward at Dec 31, 2020	10,137,073	2020 Compliance Report - Docket No. E-2, Sub 1276
EECs generated for 2021 per Company's annual update	2,216,419	Company workpapers <sup>(a)</sup>
EEC inventory balance 2021 adjustment for EM&V results	(5,178)	Company workpapers
Less: EECs used for compliance for 2021	<u>1,808,777</u>	2021 Compliance Report - Docket No. E-2, Sub 1293
EECs carried forward at Dec 31, 2021	<u>10,539,537</u>	2021 Compliance Report - Docket No. E-2, Sub 1293

**DUKE ENERGY PROGRESS, LLC**  
**Docket No. E-2, Sub 1293**

**Williams Exhibit No. 5**  
**Page No. 2 of 2**  
**June 14, 2022**

**Worksheet detailing energy efficiency certificate ("EEC") inventory**  
**Summary workpapers - EECs generated**

	Program year						Total
	2008-2015	2016	2017	2018	2019	2020	
<b>Update for EECs generated - as of year-end 2021:</b>							
Current view at year-end 2021	4,909,860	1,817,460	2,026,906	2,202,214	2,256,029	2,270,305	2,216,419
Previously reported current view at year-end 2020	4,909,860	1,817,503	2,028,060	2,204,034	2,257,508	2,270,987	<sup>(a)</sup> 15,487,951
Total Adjustments to previously reported results	0	(43)	(1,153)	(1,820)	(1,479)	(682)	2,216,419
EM&V and participation adjustments (detail below)	<b>0</b>	<b>(43)</b>	<b>(1,153)</b>	<b>(1,820)</b>	<b>(1,479)</b>	<b>(682)</b>	<b>(5,178)</b>
EECs generated 2021 per current view							<sup>(a)</sup> 2,216,419
<b>EECs entered in NC-RETS for vintage 2021</b>							<b>2,211,241</b>

**Detail for adjustments applicable to 2008 - 2020 results:**

Adjustment type	Program	Program year					Total	
		2008-2015	2016	2017	2018	2019		2020
EM&V and participation adjustments:								
EM&V	My Home Energy Report	-	(43)	(1,153)	(1,862)	(1,653)	(1,658)	(6,371)
EM&V	Energy Efficient Appliances and Devices	-	-	-	-	117	935	1,052
EM&V	Non-Residential Smart Saver	-	-	-	42	55	45	142
EM&V	Small Business Energy Saver	-	-	-	-	-	(47)	(47)
EM&V	Energy Efficiency Education	-	-	-	-	-	38	38
EM&V	Low Income Weatherization Pilot	-	-	-	-	2	5	7
Participation		-	-	-	-	-	-	-
Total Adjustments to previously reported results		-	<b>(43)</b>	<b>(1,153)</b>	<b>(1,820)</b>	<b>(1,479)</b>	<b>(682)</b>	<b>(5,178)</b>

EM&V reports applicable to results reported above and the time period covered in this docket - filed as Exhibit No. 8 to the testimony of DEP witness Karen Holbrook in DEP's energy efficiency Docket No. E-2, Sub 1294:

Program Name As Filed	Docket	Report Reference	Effective Date
EnergyWise Home	E-2 Sub 927	EM&V Report for the EnergyWise Home Demand Response Program Winter 2020/2021	4/1/2021
Small Business Energy Saver	E-2 Sub 1022	EM&V Report for the Duke Energy Small Business Energy Saver Program 2019-2020	7/1/2020
Energy Efficient Appliances & Devices	E-2 Sub 1085	Duke Energy Carolinas & Duke Energy Progress Online Savings Store Program 2021 Evaluation Report - Final	Varies by Measure
Energy Efficiency Education	E-2 Sub 1060	K12 Education Program 2019-2020 Evaluation Report	8/1/2020
My Home Energy Report	E-2 Sub 989	My Home Energy Report Program Evaluation	Base/Online: Multifamily - 11/1/2016, Single Family -
Commercial, Industrial, and Governmental Demand Response	E-2 Sub 953	EM&V Report for Duke Energy Progress Commercial, Industrial, and Governmental Demand Response Automation Program 2020/2021	11/1/2021
Multifamily Energy Efficiency Program	E-2 Sub 1059	EM&V Report for the Duke Energy Multifamily Energy Efficiency Program	7/1/2021