

**BEFORE THE  
PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of Duke Energy Ohio, Inc., for an Increase in Electric Distribution Rates.	) ) )	Case No. 17-32-EL-AIR
In the Matter of the Application of Duke Energy Ohio, Inc., for Tariff Approval.	) )	Case No. 17-33-EL-ATA
In the Matter of the Application of Duke Energy Ohio, Inc., for Approval to Change Accounting Methods.	) ) )	Case No. 17-34-EL-AAM
In the Matter of the Application of Duke Energy Ohio, Inc., for Approval to Modify Rider PSR.	) ) )	Case No. 17-872-EL-RDR
In the Matter of the Application of Duke Energy Ohio, Inc., for Approval to Amend Rider PSR.	) ) )	Case No. 17-873-EL-ATA
In the Matter of the Application of Duke Energy Ohio, Inc., for Approval to Change Accounting Methods.	) ) )	Case No. 17-874-EL-AAM
In the Matter of the Application of Duke Energy Ohio, Inc., for Authority to Establish a Standard Service Offer Pursuant to Section 4928.143, Revised Code, in the Form of an Electric Security Plan, Accounting Modifications and Tariffs for Generation Service.	) ) ) ) ) ) ) ) ) )	Case No. 17-1263-EL-SSO
In the Matter of the Application of Duke Energy Ohio, Inc., for Authority to Amend its Certified Supplier Tariff, P.U.C.O. No. 20.	) ) ) )	Case No. 17-1264-EL-ATA
In the Matter of the Application of Duke Energy Ohio, Inc., for Authority to Defer Vegetation Management Costs.	) ) )	Case No. 17-1265-EL-AAM

In the Matter of the Application of Duke )  
Energy Ohio, Inc., to Establish Minimum )  
Reliability Performance Standards ) Case No. 16-1602-EL-ESS  
Pursuant to Chapter 4901:1-10, Ohio )  
Administrative Code. )

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**DUKE ENERGY OHIO, INC.’S ANNUAL DISTRIBUTION CAPITAL INVESTMENT  
WORKPLAN**

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**I. Introduction**

On December 19, 2018, the Ohio Public Utilities Commission (Commission) approved an extension of Duke Energy Ohio Inc.’s (Duke Energy Ohio or the Company) Distribution Capital Investment (DCI) Rider through May 31, 2025.<sup>1</sup> The Opinion and Order provided:

Duke shall work with Staff to develop an annual plan to emphasize proactive distribution maintenance that will focus spending on where it will have the greatest impact on maintaining and improving reliability for customers. The plan shall specifically include identification of those expenditures that will help reduce customers’ minutes interrupted. The plan shall be submitted to Staff annually starting on December 1, 2019.<sup>2</sup>

Additionally, in a separate Duke Energy Ohio Rider DCI docket, the Commission has approved a stipulation requiring Duke Energy Ohio to “file an annual report with the Commission” describing its DCI programs.<sup>3</sup> And, pursuant to the Stipulation and Recommendation approved by the Commission in Case No. 20-1205-EL-RDR, on April 20, 2022, the Company has committed to publicly file a copy of the Annual DCI Work Plan each year until a new ESP is approved.

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<sup>1</sup> *In the Matter of the Application of Duke Energy Ohio, Inc. for An Increase in Electric Distribution Rates*, Case No. 17-32-EL-AIR, *et. al*, Opinion and Order, pg. 38 (December 19, 2018) (Opinion and Order).

<sup>2</sup> Opinion and Order, pg. 41.

<sup>3</sup> *In the Matter of the Review of Duke Energy Ohio, Inc.’s Distribution Capital Investment Rider*, Case No. 17-1118-EL-RDR, Stipulation and Recommendation, pg. 5-6 (June 22, 2018); *Id.*, Opinion and Order, pg. 6-7 (September 26, 2018).

Duke Energy Ohio submitted its first Annual DCI Workplan for 2020 on December 1, 2019 and has continued to file annually. The attached report reflects the Annual DCI Workplan (Workplan) for 2023.

## **II. DCI Programs**

The attached Workplan includes the capital programs that are currently budgeted for 2023 and is subject to change based on business needs. The Workplan includes a description of the program, measures for reliability improvements, estimated number of units, affected circuits, expected reliability improvements, equipment affected, unit of measure and estimated budget dollars. Depending on the nature of the work performed, the amounts for the programs listed will be recorded in one or both of two FERC accounts: 010700 Construction Work in Progress and/or 108600 Retirement Work in Progress. The Workplan demonstrates the Company's proactive efforts to transform the state's electric grid by making it more resilient and reliable to deliver more value to Duke Energy Ohio's customers and enhance the overall electricity experience.

## **III. Reliability Spending**

Paragraph 113 of the Opinion and Order provides:

- (1) For 2018, the Rider DCI revenue cap will be \$32 million.
- (2) For 2019, the Rider DCI revenue cap will be \$42.1 million. This amount may be increased to \$46.8 million if, in 2018, Duke achieves both reliability standards.
- (3) For 2020, the Rider DCI revenue cap will be increased an additional \$14 million, or up to \$18.7 million, depending on whether the Company achieves both reliability standards.
- (4) For years 2021 through 2024, the Rider DCI revenue cap will be increased by an additional \$18.7 million, each year.

(5) For the period of January 1 through May 31, 2025, the Rider DCI revenue cap will be between the range of \$62.4 million and \$66.3 million depending on the Company's reliability performance in prior years.<sup>4</sup>

Additionally, the Opinion and Order provides:

The CAIDI and SAIFI standards for 2018 through 2025 shall be as follows:

Reliability Standards		
Year	CAIDI	SAIFI
2018	134.4 minutes	1.12 interruptions
2019	134.34 minutes	1.00 interruptions
2020	134.34 minutes	0.91 interruptions
2021	135.52 minutes	0.83 interruptions
2022-2025	137.00 minutes	0.75 interruptions

<sup>5</sup>

#### IV. Conclusion

The Company will continue to submit annual updates in compliance with the Commission-approved Stipulation.

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<sup>4</sup> Opinion and Order, pg. 39. Note: a Stipulation and Recommendation is pending approval currently in Case No. 21-887-EL-AIR which, if approved, will impact the Rider DCI amounts.

<sup>5</sup> *Id.*, pg. 41.

Respectfully submitted,

DUKE ENERGY OHIO, INC.

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**CERTIFICATE OF SERVICE**

I certify that a copy of the foregoing Duke Energy Ohio’s Annual Distribution Capital Investment Workplan was served on the following parties this 1st day of December 2022 by regular U. S. Mail, overnight delivery or electronic delivery.

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## 2023 WORKPLAN & CIRCUITS

### Duke Energy Ohio 2023 DCI Work Plan

Row	Capital Program	Program Description	Measures for Reliability Improvements	Estimated 2023 Units	Affected 2023 Circuits	Expected Reliability Improvements	Equipment Affected	Unit of Measure	Estimated 2023 Budget (\$M)
1	Self-Optimizing Grid (SOG)	Installation of electronic reclosers, increased line capacity/connectivity, and increased substation capacity to network the distribution system with self-healing teams.	SOG reduces the number of customers affected by a long-term outage event by automatically providing the means to reconfigure the distribution system and restore power to those areas not directly involved in the outage.	316		Improves reliability by reducing customers impacted and customer minutes interrupted during an outage event.	Distribution feeders	Various	\$54.5
2	Convert 4kV System	This conversion program updates the system to current standards, eliminates equipment at the end of useful life, and provides back-up from the existing 12 kV systems. In addition, the conversion enables grid modernization, such as Self-Optimizing Grid and IWVC, that was not possible on the 4kV systems.	Proactive asset replacement/upgrade program. There is positive impact to the reliability related to the prevention of future outages as well as the time required for restoration.	7	13	Improves reliability by reducing customers impacted and customer minutes interrupted during an outage event.	Distribution feeders	Substation	\$10.8
3a	Circuit Sectionalization	Installation / upgrade of sectionalizing devices on circuits to minimize the number of customers affected by an outage.	Reduces the number of customers affected by an outage. Currently, a single set of fuses protect upstream customers from experiencing an outage, but with circuit sectionalization several additional protective devices are installed. This fuse coordinated approach keeps one circuit segment issue at the end of the circuit from affecting more customers upstream. This program also reduces outage duration because the length of the line that requires troubleshooting is reduced allowing for a more accurate and timely pinpointing of the outage and more efficient restoration.	69	2	Improves reliability by reducing customers impacted and customer minutes interrupted during an outage event.	Circuit protection devices (such as trip savers and fuses)	Location	\$0.3
3b	Targeted Overhead Underground Conversion	Strategic replacement of rear-lot overhead lines that experience numerous outages, with underground lines.	Outages should be reduced by the replacing of overhead lines that have experienced numerous outages.	8.7	1	Improves reliability by reducing customers impacted and customer minutes interrupted during an outage event.	Rear-lot overhead lines	Number of overhead primary miles removed	\$0.5
3c	Declared Protection Zone	Program involves a detailed visual inspection of the distribution line providing power to an area experiencing an above average number of temporary and permanent power outages.	Repair/replacement/upgrades to infrastructure to reduce outages. Probable outage causes identified by a pole-by-pole inspection.	12	12	Improves reliability by reducing customers impacted and customer minutes interrupted during an outage event.	Distribution feeders	Per Work Order	\$3.7
3d	Recloser Replacement	This includes recloser failures and the proactive program to replace 1/6 of our hydraulic reclosers annually. The recloser plays a key role in protecting the main line of the circuit to isolate the outage to a smaller group of customers.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages due to recloser failures.	174	system wide	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Reclosers	Per recloser	\$2.9

## 2023 WORKPLAN & CIRCUITS

### Duke Energy Ohio 2023 DCI Work Plan

Row	Capital Program	Program Description	Measures for Reliability Improvements	Estimated 2023 Units	Affected 2023 Circuits	Expected Reliability Improvements	Equipment Affected	Unit of Measure	Estimated 2023 Budget (\$M)
3e	Overhead Deteriorated Conductor Replace	Replacement of primary voltage conductors that are likely to fail due their deteriorated condition; a heavier gage wire is installed.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages.	94,846	8	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Overhead primary conductor	Feet of conductor	\$1.6
3f	Capacitor Replacement	Replacement of failed capacitor banks.	Maintains the ability to adequately control voltage on a feeder.	105	TBD based on failures	Maintains system voltage	Capacitors	Per Work Order	\$1.5
3g	Modem Proactive Upgrade	Proactive program to replace smart device modems (in Line Sensors, Reclosers, Regulators, and Capacitor Banks) that are reaching end of useful life.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future network outages.	212	system wide	Proactive efforts to maintain system reliability	Modems	Per modem	\$0.4
3h	Underground Cable Replacement	Replacement of primary underground cable due to repeated equipment failure.	Cable replacement is an asset renewal program and as such, there will be some positive impact to reliability, related to the prevention of future outages.	96,022	TBD based on failures	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Underground cable	Feet of conductor	\$6.3
3i	Pole Replacement (Non Inspection Based)	Replacement of defective distribution poles identified during routine, non-inspection based activities.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages.	357	TBD based on failures	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Poles	Per pole	\$2.6
3j	Other Asset Replacements	Other, mainly reactive, capital replacements such as failed transformers, crossarms, etc.	Asset renewal program. There is positive impact to reliability related to the prevention of future outages.	N/A	TBD based on failures	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Various	Various	\$19.4
3	Reliability & Integrity Programs	Installation of new, and replacement of existing assets such as protective devices, conductor, capacitors, cable and transformers.	Asset renewal program. There is positive impact to reliability related to the prevention of future outages.	191,806		Improves/Maintains reliability by reducing/mitigating customers impacted and customer minutes interrupted.	Various	Various	\$39.2
4a	Pole Inspection Replacements	Replacement of defective distribution poles identified during annual pole inspections.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages.	419	TBD based on failures	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Poles	Per Pole	\$3.2
4b	Pole Reinforcement	Structural modification of distribution poles identified during annual pole inspections.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages.	824	TBD based on failures	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Poles	Per Pole	\$0.5
4c	Annual Line Patrol Inspection Replacement	Replacement of distribution equipment found during proactive line inspection.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages.	232	TBD based on failures	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Poles and other capital assets	Per Work Order	\$0.9
4	Inspection Programs	Replacement/reinforcement of poles and other equipment identified during inspections.	Proactive asset renewal program. There is positive impact to reliability related to the prevention of future outages.	1,475		Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Poles and other capital assets	Per Work Order	\$4.6

**2023 WORKPLAN & CIRCUITS**

**Duke Energy Ohio 2023 DCI Work Plan**

Row	Capital Program	Program Description	Measures for Reliability Improvements	Estimated 2023 Units	Affected 2023 Circuits	Expected Reliability Improvements	Equipment Affected	Unit of Measure	Estimated 2023 Budget (\$M)
5	Vegetation Management	This program includes all capital vegetation management work performed in Duke Energy Ohio.	There is positive impact to reliability related to the prevention of future outages.	Tracked by dollars (not units)	system wide	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	N/A	Tracked by dollars (not units)	\$4.3
6	System / Retail Capacity	New and / or rebuilt distribution substation and line capacity to serve customer load and maintain substation equipment integrity.	Required to maintain reliable service.	Tracked by dollars (not units)	system wide	Maintains reliability by mitigating customers impacted and customer minutes interrupted from an outage event by increasing the capacity of adjacent circuits to pick-up load during an outage.	Distribution feeders	Tracked by dollars (not units)	\$52.8
7	Distribution Circuit Improvement with Transmission Work	Duke Energy Ohio will rebuild transmission lines, many of which have a Distribution underbuild. This provides the opportunity to upgrade the Distribution equipment to improve reliability rather than simply transfer or rebuild to the same standards as existing Distribution facilities.	Proactive asset renewal program. Rebuilding to a newer standard can provide a positive impact to reliability related to the prevention of future outages.	Tracked by dollars (not units)	system wide	Maintains reliability by mitigating customers impacted and customer minutes interrupted from an outage event by increasing the capacity of adjacent circuits to pick-up load during an outage.	Distribution feeders	Tracked by dollars (not units)	\$3.0
8	Service Restoration	This capital program includes day-to-day work for service restorations which are excluded from the major event category of outages. This would include capital dollars for such things as equipment replacement from an outage and capital dollars associated with minor storm events.	Restores customers during an outage	Tracked by dollars (not units)	system wide	Maintains reliability by restoring customers during an outage.	Various	Tracked by dollars (not units)	\$13.3
9	Customer Service Work	This capital program is for work necessary for providing customers electric service in Duke Energy Ohio. It includes capital dollars for providing service to new customers, as well as upgrades to existing commercial, industrial and residential customers.	New/upgraded equipment is typically more reliable than older equipment built to older standards.	Tracked by dollars (not units)	system wide	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Customer services	Tracked by dollars (not units)	\$29.8
10	Distribution Equipment Relocation	This capital program involves the relocation of existing facilities in support of road improvements.	New/upgraded equipment is typically more reliable than older equipment built to older standards.	Tracked by dollars (not units)	system wide	Maintains reliability by mitigating customers impacted and customer minutes interrupted from a potential outage event.	Various	Tracked by dollars (not units)	\$9.5
11	Customer Operations	This capital program is for the purchase of customer meters for providing customers electric service in Duke Energy Ohio.	AMI meters have the capability to interrogate individual smart meters to determine if customers have power. This allows pinging during outages to determine specific customer impacts. The capability of interrogating individual meters can tell the Company when a customer's power has already been restored, saving a truck roll to confirm power has been restored.	Tracked by dollars (not units)	system wide	Improved outage response reduces customer minutes interrupted during an outage event.	Meters	Tracked by dollars (not units)	\$5.2
12	Lighting	Capital replacements / additions of lighting not recovered under the OLE tariff.	Maintains reliability of Lighting assets.	Tracked by dollars (not units)	system wide	Maintains reliability of Lighting assets.	Lighting assets	Tracked by dollars (not units)	\$3.0
13	<b>TOTAL</b>								<b>\$230.0</b>

2023 WORKPLAN & CIRCUITS

Self-Optimizing Grid (SOG) - Automated Switching Devices		Self-Optimizing Grid (SOG) - Circuit Capacity & Connectivity	Self-Optimizing Grid (SOG) - Substation Capacity	Convert 4kV System	Circuit Sectionalization	Targeted Overhead Underground Conversion	Declared Protection Zone	Overhead Deteriorated Conductor Replace
AMANDA 41	NEWTOWN 43	Withamsville 42	Vera Cruz	Williamsburg A	DEER PARK 44	GOLF MANOR 41	WILLEY 51	MT HEALTHY 42
BETHANY 41	NICKEL 43	Whittier 43	Newtown	Williamsburg B	CARLISLE 42	DELHI 44	CARLISLE 42	CENTRAL 41
BETHANY 42	OAKLEY 38	Terminal 44	Aicholtz	Ryan A			HILLCREST 52	NILLES 41
BETHANY 43	OAKLEY 42	Seven Mile 41		Charles A			STILLWELL 41	BERKSHIRE 41
BETHANY 46	OAKLEY 44	Oakley 42		Charles B			SOUTH BETHEL 52	CENTRAL 42
BETHANY 47	OAKLEY 48	Newtown 43		Owensville A			SOUTH BETHEL 51	TRENTON 44
BETHANY 48	OAKLEY 49	Mitchell 44		Owensville B			WITHAMSVILLE 43	TRENTON 46
CANAL 41	POAST TOWN 41	Mitchell 43		Franklin D			BROWN 51	AMELIA 42
CARLISLE 41	ROCHELLE 42	Lateral 49		Franklin B			CEDARVILLE 54	
CARLISLE 42	ROCHELLE 45	Lateral 43		Mt Lookout D			GLEN ESTE 41	
DEER PARK 43	RYBOLT 42	Lateral 42		Mt Lookout B			MONROE 43	
DEER PARK 44	SAYLER PARK 41	Ivorydate 43		Charles N			PORT UNION 43	
EVENDALE 51	SUMMERSIDE 41	Hunter 43		Barnesburg A				
EVENDALE 55	SUMMERSIDE 42	Deer Park 42						
EVENDALE 58	SUMMERSIDE 43	Deer Park 43						
GOLF MANOR 41	SUMMERSIDE 55	Central 42						
HILLSIDE 41	SUMMERSIDE 56	Carlisle 41						
HUNTER 43	SUMMERSIDE 59	Bethany 45						
IVORYDALE 43	TRENTON 45	Bethany 42						
JACKSON 42	TRENTON 46	Poastown 41						
LATERAL 41	UNION 41	Fairfield 42						
LATERAL 42	UNION 42	Walnut Hills 335						
LATERAL 43	UNION 49	Walnut Hills 41						
LATERAL 44	WHITTIER 43							
LATERAL 45	WILLEY 51							
LATERAL 46	WILLEY 52							
LATERAL 49	WILLEY 53							
LIBERTY 43	WILLEY 54							
MANCHESTER 41	WITHAMSVILLE 41							
MANCHESTER 46	WITHAMSVILLE 42							
MCMANN 41	WITHAMSVILLE 43							
MIAMITOWN 41	WITHAMSVILLE 44							
MIDDLETOWN OH 43	ROCHELLE 41							
MITCHELL AVE 41	RYBOLT 44							
MITCHELL AVE 43	RYBOLT 43							
MITCHELL AVE 44	OAKLEY 824							
MONROE 42	WYSCARVER 41							
NEUMANN 41	WYSCARVER 42							
NEUMANN 42								

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**Case No(s). 17-0032-EL-AIR, 17-0033-EL-ATA, 17-0034-EL-AAM, 17-0872-EL-  
RDR, 17-0873-EL-ATA, 17-0874-EL-AAM, 17-1263-EL-SSO, 17-1264-EL-ATA,  
17-1265-EL-AAM, 16-1602-EL-ESS**

Summary: Annual Report Duke Energy Ohio, Inc.'s Annual Distribution Capital  
Investment Workplan electronically filed by Mrs. Tammy M. Meyer on behalf of  
Duke Energy Ohio Inc. and D'Ascenzo, Rocco and Vaysman, Larisa and Kingery,  
Jeanne and Akhbari, Elyse Hanson