BEFORE

THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Duke)	
Energy Ohio, Inc., for Approval of its)	Case No. 20-1013-EL-POR
2021 Energy Efficiency and Demand Side)	
Management Portfolio of Programs and)	
Cost Recovery Mechanism.)	
In the Matter of the Application of Duke Energy Ohio, Inc., for Approval of Tariff Amendments.))	Case No. 20-1114-EL-ATA
Amendments.)	

DIRECT TESTIMONY OF

GREG R. TIERNAN

ON BEHALF OF

DUKE ENERGY OHIO, INC.

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I. <u>INTRODUCTION</u>

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Greg R. Tiernan, and my business address is 1000 E Main Street,
Plainfield, IN 46168.

4	Q .	PLEASE DESCRIBE YOUR ROLE WITH DUKE ENERGY.
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A. I am Director Products & Services for Business Markets. My team provides various
administrative and other services to Duke Energy Ohio, Inc., (Duke Energy Ohio
or the Company) and other affiliated companies of Duke Energy Corporation (Duke
Energy).

9 Q. PLEASE SUMMARIZE YOUR EDUCATION AND PROFESSIONAL 10 EXPERIENCE.

11 I received a Bachelor of Science degree in Management & Organization from A. 12 Indiana University - Purdue University of Indianapolis, a Master of Business 13 Administration from Indiana Wesleyan University, and I also am a Certified Energy 14 Manager through the Association of Energy Engineers. I have held various 15 positions throughout Duke Energy and its predecessor companies, including roles 16 in Economic Development, Customer Service & Field Operations Management, 17 and Non-Regulated Gas Marketing Operations. I joined the Marketing organization 18 in 2010 to manage Duke Energy's commercial and industrial energy efficiency 19 (EE) programs. In 2018, I assumed managerial responsibility for all commercial 20 and industrial demand side management (DSM) and EE products, which is still my 21 current area of responsibility.

Q. PLEASE DESCRIBE YOUR DUTIES AS DIRECTOR OF PRODUCTS & SERVICES – BUSINESS MARKETS.

3 A. My team oversees the operation of Duke Energy Ohio's Non-Residential EE and 4 DSM programs to ensure they are delivered to customers cost effectively and 5 efficiently. This involves managing contracts with external parties, monitoring the 6 mix of incentives included in the portfolio, and planning strategies for raising 7 customer awareness of the incentives offered. The Company works with external 8 engineering firms to assist with developing costs for incentive measures, as well as 9 guidance on incentives offered by other utilities to aid in the evaluation of cost 10 effectiveness. The Company is constantly evaluating the number of incentive 11 applications being submitted, types of technologies customers are employing, and 12 evaluating strategies to increase adoption rates by customers. This also includes 13 periodic reviews of the measures included in offerings to customers to ensure our 14 portfolio of offers stays current with technology changes in the marketplace and 15 updated efficiency standards.

16 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PUBLIC 17 UTILITIES COMMISSION OF OHIO?

18 A. No, I have not previously provided testimony before the Public Utilities19 Commission of Ohio (Commission).

II. <u>DISCUSSION</u>

1Q.WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS2PROCEEDING?

- A. The purpose of my testimony in this proceeding is to explain the non-residential
 (commercial and industrial) DSM and EE programs proposed to be offered by Duke
 Energy Ohio and to explain some of the marketing strategies being employed to raise
 awareness of the value of DSM and EE investments with customers to increase
 customer participation.
- 8 Q. WHAT NON-RESIDENTIAL EE AND DSM PROGRAMS DOES DUKE
 9 ENERGY OHIO PROPOSE TO OFFER IN THE NEW PORTFOLIO?
- A. Duke Energy Ohio's proposed Non-Residential DSM and EE offers consist of
 Business Energy Saver (BES), Power Manager[®] for Business, and PowerShare[®].
 These programs were previously approved by the Commission in Duke Energy Ohio's
 Case No. 16-576-EL-POR. In order to reduce the overall budget for the new portfolio,
 these are the only programs being filed for inclusion in the new portfolio to begin
 January 1, 2021. Cost effectiveness, participant and cost data for the proposed
 portfolio of programs is included in the application to this filing.
- 17 Business Energy Saver

18 The objective of the BES is to enable the installation of high efficiency 19 equipment in existing non-residential facilities. BES is designed to offer a 20 convenient, turn-key process for non-residential customers. BES launched in 21 November 2014 in Ohio and has been popular and successful with business 22 customers since inception. A pipeline of potential applicants has not been difficult

to attain. Business owners typically lack the time, upfront capital, and technical
expertise to facilitate the retrofit or replacement of older equipment within their
facilities. This program effectively removes these barriers by offering a turn-key
EE offering which facilitates the direct installation of EE measures, and minimizes
financial obstacles with significant upfront incentives from Duke Energy Ohio
which offset the cost of projects.

BES program eligibility is limited to all active non-residential Duke Energy
Ohio electric customer accounts. Participants may be in owner-occupied or tenant
leased facilities with owner permission.

10 All aspects of BES are managed by a Duke Energy Ohio-authorized 11 program vendor or Duke Energy Ohio-authorized trade ally. Duke Energy Ohio 12 may first provide a list of customers who meet the program eligibility requirements 13 to the program vendor. The program vendor or trade ally then offers free, no-14 obligation facility energy assessments to qualifying non-residential customers. 15 These assessments result in recommendations of EE measures to be installed at the facility along with the projected energy savings, costs of all materials and 16 17 installation, and the incentive amount from Duke Energy Ohio. BES is designed as 18 a pay-for-performance offering, meaning that the program vendor or trade ally is 19 only compensated for energy savings produced through the installation of EE 20 measures.

The BES program incentive amount is calculated per project, based upon the estimated energy savings of the EE improvements and the conditions found within the customer's facility. Incentivized measures address major end-uses in

lighting, refrigeration, process equipment and heating ventilation and air
 conditioning (HVAC) applications suited for non-residential facility types.

3 All LED lighting measures offered are Consortium for Energy Efficiency 4 (CEE), ENERGY STAR, or Design Lights Consortium (DLC) qualified products. 5 Refrigeration measures may include new electronically commutated (EC) motors, 6 anti-sweat heater controls, evaporator fan controls, LED refrigeration case lighting, 7 beverage machine/novelty cooler controls, and automatic door closers for walk-in 8 freezers. Process equipment such as heat pump water heaters, cooking equipment 9 and dishwashing equipment may be included. HVAC upgrades such as rooftop and 10 unitary air conditioners and heat pump systems, packaged systems, advanced 11 rooftop controls, variable frequency drives, programmable thermostats and 12 efficient operation modifications may be included. In anticipation of technological 13 advancements, Duke Energy Ohio proposes the flexibility to incentivize additional 14 cost-effective measures where appropriate within the lighting, refrigeration, 15 process equipment and HVAC fields. To encourage participation, Duke Energy 16 Ohio provides an upfront customer incentive for up to 80 percent of the total cost 17 of installed measures. Incentives are provided based on Duke Energy Ohio's cost 18 effectiveness modeling to ensure cost effectiveness over the life of the measures.

19 Upon receiving the results of the assessment, if the customer chooses to 20 move forward, the customer makes the final determination of project scope prior to 21 installation. The program vendor or trade ally then installs the measures or works 22 with local, qualified subcontractors for the installation services. The customer can 23 schedule the installation for a convenient time. Duke Energy Ohio's incentive

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1	payment for any installed measures is paid directly to the program vendor or trade
2	ally upon verification that the EE measure(s) have been installed. All project costs
3	above the incentive amount is the responsibility of the customer and paid based
4	upon payment terms arranged between the customer and program vendor, trade ally
5	or third party. Duke Energy Ohio intends for the program vendor, trade ally or third
6	party to offer extended payment options to the customer to further minimize any
7	upfront payments that may cause financial barriers to participation.
8	This program may be promoted through various marketing channels that
9	include, but are not limited to:
10	• Direct mail (letters and postcards to qualifying customers);
11	• Duke Energy Ohio website;
12	• Community outreach events;
13	• Small Business Group outreach events;
14	• Paid advertising/mass media; and
15	Social media promotions.
16	Marketing efforts will be designed to create customer awareness of this program,
17	to educate customers on energy saving opportunities and to emphasize the
18	convenience of participation in BES.
19	With BES, Duke Energy Ohio furthers its commitment to offering
20	affordable and broad-reaching programs that simplify EE decisions for all
21	customers.
22	<u>PowerShare[®]</u>
23	PowerShare [®] is Duke Energy Ohio's DSM program geared toward

1 commercial and industrial customers. The Company believes this program has 2 been offered since approximately 2000, and it has been popular with customers to date. The primary offering under PowerShare[®] is named CallOption[®] and it 3 provides customers a variety of offers that are based on their willingness to shed 4 5 load during times of peak system usage. These credits are received regardless of 6 whether an event is called or not. Energy credits are also available for participation 7 (shedding load) during curtailment events. The notice to curtail under these offers 8 is 30 minutes (to be consistent with the timing of an emergency event called by 9 PJM) and there are penalties for non-compliance during an event.

10 The program is primarily marketed through the Large Account 11 Management group of Duke Energy Ohio, a group of Account Executives who 12 manage the relationship with the largest customers of Duke Energy Ohio. In 13 addition, program information is made available on the Duke Energy Ohio website.

14 **Power Manager[®] for Business**

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15 Power Manager[®] for Business is a non-residential program that provides 16 business customers with the opportunity to participate in demand response (DR), 17 earn incentives and realize optional EE benefits. This program is designed as a 18 flexible offer that provides small-to-medium size business customers with options 19 on device types as well as level of DR participation. Customers first select the type 20 of device from two available options: thermostat or switch. This program has been 21 offered since 2018, and the pipeline of potential participants has not been difficult 22 to attain to date.

Customers who opt for the thermostat will have the ability to manage their

1 thermostat remotely via computer, tablet or smartphone. The thermostat comes 2 with presets designed to help the business manager/owner set an efficient schedule 3 that works for their business. This realizes additional benefits in the form of EE impacts/savings. Customers then select one of three levels of summer DR 4 5 participation, and earn an incentive based upon that selection.

6 Both thermostat and switch customers have the same DR participation 7 options and receive the same DR incentives.

8 Power Manager® for Business will be offered to business customers that 9 meet the following program requirements: a qualifying air conditioning system, 10 exhibit summer weekday energy usage and that have an adequate communication 11 signal that can be received by the device used by the program. Customers must 12 agree to have the control device installed on their A/C system, provide 13 broadband/Wi-Fi internet to receive the thermostat and to allow Duke Energy Ohio to control their A/C system during Power Manager[®] events. Qualifying air 14 15 conditioning systems include:

16 Individual split air conditioning systems; • 17 Rooftop Units; and 18 Packaged terminal air conditioners (PTACs). 19 Customers participating in this Program receive an incentive based upon the 20 level of DR cycling they select: 21 30% cycling: \$50 per DR summer season (per device); 22 50% cycling: \$85 per DR summer season (per device); or • 23

75% cycling: \$135 per DR summer season (per device).

1		The incentive will be paid out after installation of the device(s) and then annually.
2		Devices are installed at the customer premise at no charge to the customer.
3		Power Manager [®] for Business will be marketed through targeted direct mail
4		campaigns, targeted e-mail campaigns, outbound telemarketing, on Duke Energy
5		Ohio's Web site and via cross selling with the BES Program.
6		Customers can enroll in Power Manager® for Business by: phone call, door-
7		to-door canvassing, returning the enrollment form included in the marketing
8		material or through Duke Energy Ohio's Web site. Duke Energy Ohio will contract
9		with a third-party entity to install and perform field work associated with the load
10		control devices and thermostats.
11	Q.	ARE THERE ANY NEW NON-RESIDENTIAL PROGRAMS DUKE
12		ENERGY OHIO IS PROPOSING TO INCLUDE IN THE 2021
13		PORTFOLIO?
14	A.	No. The 2021 portfolio does not currently include any new non-residential
15		programs, but its existing programs do include several new measures and design
16		enhancements. The Company will continue to evaluate potential programs and will
17		review with the Duke Energy Collaborative any new programs the Company plans
18		to offer during this timeframe.
19	Q.	WHY DID DUKE ENERGY OHIO SELECT THESE NON-RESIDENTIAL
20		PROGRAMS FOR THE 2021 PORTFILIO, WHILE ELIMINATING
21		OTHER SMART \$AVER PROGRAMS?

A. These programs specifically target the Small, Medium Business (SMB) class of
non-residential customers, which tend to be harder to reach for participation in EE

/ DSM programs, while offering these customers with a turn-key / direct install
 approach.

Also, specifically continuing the Power Manager for Business Program, will enable Duke Energy Ohio to maintain this DSM resource built up over the last few years (since inception in 2018). This filing for Power Manager for Business does not reflect Duke Energy Ohio adding many new participants. Discontinuing Power Manager for Business would not be prudent as Duke Energy Ohio would be abandoning the DSM capability invested in by Duke Energy Ohio's customers through the installation of the Wi-Fi-enabled thermostats.

10 Q. WHY DID DUKE ENERGY INCLUDE DEMAND SIDE MANAGEMENT

11 **RELATED NON-RESIDENTIAL PROGRAMS IN THIS PORTFOLIO?**

A. Duke Energy Ohio has been entering the PJM Auctions for the purpose of lowering
program costs for customers for several years. Continuing the PowerShare® and
Power Manager® for Business programs is part of Duke Energy Ohio's plan to
support the commitments made by selling resources into the PJM Base Residual
Auction. In addition, many of the Summer Only participants in the PowerShare®
program are school systems who use the proceeds to decrease their cost of
operations.

19 Q. DID DUKE ENERGY OHIO REFER TO ITS MARKET ASSESSMENT 20 AND ACTION PLAN FOR ELECTRIC DSM, AS FILED WITH THE 21 COMMISSION IN DEVELOPING THIS PORTFOLIO OF PROGRAMS? 22 A. Yes.

III. <u>CONCLUSION</u>

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

2 A. Yes.

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Commission of Ohio Docketing Information System on

6/3/2020 3:52:21 PM

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Case No(s). 20-1013-EL-POR, 20-1114-EL-ATA

Summary: Testimony Direct Testimony of Greg R. Tiernan on Behalf of Duke Energy Ohio, Inc. electronically filed by Carys Cochern on behalf of Duke Energy