STATE OF ILLINOIS ILLINOIS COMMERCE COMMISSION

Commonwealth Edison Company	:
Petition for Approval of Beneficial Electrification Plan under the Electric Vehicle Act, 20 ILCS 627/45	: : 22-0432
and New EV Charging Delivery Classes under the	
Public Utilities Act, Article IX	•
Illinois Commerce Commission	: (cons.)
On Its Own Motion	:
- v s-	•
Commonwealth Edison Company	22-0442 :
Investigation into Commonwealth Edison	:
Company Beneficial Electrification Plan	:
Filing pursuant to 20 ILCS 627/45.	:

DIRECT TESTIMONY OF T.J. BROOKOVER

ON BEHALF OF

THE BUILDING OWNERS AND MANAGERS ASSOCIATION OF CHICAGO

September 22, 2022

Docket Nos. 22-0432/0442 BOMA/Chicago Ex. 1.0

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1 I. INTRODUCTION AND QUALIFICATIONS

2 Q: Please state your name and business address.

- 3 A: My name is TJ Brookover. My business address is One East Wacker Drive, Suite 1200,
- 4 Chicago, IL 60603.
- 5 Q: By whom are you employed and in what capacity?
- A: I am the Regional Manager for AmTrust Realty Group. I also serve on the Board of
 Directors of the Building Owners and Managers Association of Chicago
 ("BOMA/Chicago") and its Energy and Sustainability Committee.

9 Q: Can you explain what BOMA/Chicago is and who they are comprised of?

10 A: BOMA/Chicago is a trade association that has represented the interests of the Chicago 11 office building industry since 1902. Membership includes 240 commercial office, 12 institutional and public buildings and 200 companies that provide commercial building 13 services to support operational excellence. BOMA/Chicago members constitute 14 approximately 80 percent of all rentable office space in downtown Chicago. These valuable 15 assets are the core of one of the world's greatest central business districts.

16 BOMA/Chicago has long played a role in drafting new building codes, advancing fire and 17 life safety measures, negotiating mutually beneficial labor agreements, and enhancing 18 energy efficiency and sustainability practices. BOMA/Chicago is a major contributor to 19 the economic livelihood of the city and region, housing nearly 647,000 employees and over 20 18,000 local businesses in our member buildings. It is estimated that BOMA/Chicago 21 buildings inject more than \$4.6B into the Central Business District Economy and are a 22 major supporter of local schools and public services with over a billion dollars paid in 23 annual property taxes.

24	Q:	What are your duties and responsibilities as Regional Manager of AmTrust Realty?		
25	A.	Generally, I oversee AmTrust Realty's Chicago building portfolio of seven buildings. This		
26		primarily entails the upkeep, operations and maintenance of these commercial office		
27		buildings. Prior to this position, I was the director of property management for The John		
28		Buck Company. I hold a B.A. in Business Administration from the University of		
29		Pittsburgh.		
30	Q.	What are your duties and responsibilities as a member of BOMA/Chicago's Board of		
31		Directors?		
32	A:	In my role on BOMA/Chicago Board of Directors, I am responsible for helping guide the		
33		strategic direction of the organization and creating a wide range of initiatives that advance		
34		the commercial real estate industry in downtown Chicago. For approximately 15 years, I		
35		have also served as either Chairman or Board Liaison to BOMA/Chicago's Energy and		
36		Sustainability Committee.		
37	Q:	Have you ever testified before the Illinois Commerce Commission?		
38	Q:	Yes. I previously provided testimony in ICC Docket Nos. 05-0159, regarding defining a		
39		competitive electric supply procurement process; 05-0597, regarding Commonwealth		
40		Edison Company's (ComEd) proposed general increase in rates, 07-0166, regarding an		
41		investigation into ComEd's Rate Design, and in 20-0872, regarding ComEd's proposed		
42		modifications to Rider NS.		
43	II.	PURPOSE AND CONCLUSIONS OF TESTIMONY		
44	Q:	What is the purpose of your testimony?		
45	A:	The purpose of my testimony is to support beneficial electrification and specifically the		

46 effort to put 1 million electric vehicles on the road by 2030. To accomplish this, it is critical

2 of 10

we have a solid infrastructure of electric vehicle chargers in strategic locations, especially
in the Central Business District which serves as the central hub for all communities within
the city and metropolitan region. As a customer group, BOMA/Chicago seeks to support
the adoption of electric vehicles by providing convenient, central locations where residents
can safely and economically charge their electric vehicles while working in or visiting the
Central Business District of Chicago.

53 Q: How does BOMA/Chicago view the current situation?

A: Supporting transportation electrification involves not only deploying new electric vehicles, but also ensuring that EV owners have access to adequate options to charge their vehicles. Just as internal combustion engine ("ICE") drivers rely on ubiquitous access to gas stations to refuel their cars, EV drivers need to be confident that they can recharge their vehicles battery relatively easily. Unlike ICE drivers, many – but not all – EV drivers have the option to charge their vehicles at home. For other occasions when charging is needed, EV drivers rely on private or public networks of EV chargers.¹

According to the Office of the Illinois Secretary of State's Electric Vehicles in Illinois August 2022 report, there are currently 48,917 electric vehicles across the state, including over 32,000 electric vehicles in the Chicagoland area.² To reach the goal of putting 1,000,000 electric vehicles on the road by 2030 requires an increase of electric vehicles by 2,000 percent in less than eight years. Supporting growth of this magnitude requires a strategic plan that includes a comprehensive electric vehicle charging infrastructure. The

¹ ComEd Ex. 1.01 page 13 of 60.

² <u>https://www.ilsos.gov/departments/vehicles/statistics/electric/2022/electric081522.pdf</u> https://www.ilsos.gov/departments/vehicles/statistics/lpcountycounts/home.html

infrastructure we propose would serve as a central hub for all communities within the city
and metropolitan region, incorporating convenience, safety, and economy of scale. Table
1 below details the number of electric vehicles and the number of passenger vehicles
statewide, and the Chicago collar counties.

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		Total Active Registration -	
County	EV Count 8/15/22	Passenger 8/12/22	Percent EV
СООК	13,364	1,632,175	0.82%
DUPAGE	7,656	654,132	1.17%
LAKE	5,943	479,490	1.24%
WILL	3,087	460,728	0.67%
KANE	1,970	335,332	0.59%
Subtotal	32,020	3,561,857	0.90%
Statewide	48,917	7,446,105	0.66%

72 Illinois Secretary of State

73 III. <u>BOMA/CHICAGO'S EV INFRASTRUCTURE PROPOSAL</u>

74 Q: What are you advocating for on behalf of BOMA/Chicago?

A: Providing EV charging infrastructure in the heart of the City that serves as a central hub
for all neighborhoods, including Environmental Justice and Restore, Reinvest, and Renew
Communities, is essential to the successful adoption of electric vehicles in the State of
Illinois. To accomplish this, BOMA/Chicago seeks ICC approval to modify

Commonwealth Edison Company's (ComEd) Beneficial Electrification Plan (BE Plan) to
 develop electric vehicle infrastructure in downtown Chicago.

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81

Q: What is BOMA/Chicago's solution?

82 BOMA/Chicago proposes its ("BOMA/Chicago Beneficial Electrification Program" or A: 83 "Program") to provide incentives for Electric Vehicle Charging Stations in 84 BOMA/Chicago buildings. As real estate and business leaders, BOMA/Chicago plays an 85 important role in adopting EV infrastructure to encourage downtown workers and visitors 86 to purchase electric vehicles and have a safe and convenient place to park. BOMA/Chicago 87 is seeking dedicated funding of \$10 million each year of the five-year Beneficial 88 Electrification Plan (through a new Commercial and Private Sector EV Charging 89 Infrastructure Sub-Program). This dedicated fund would allow BOMA/Chicago member 90 buildings to support the installation of 11,000 EV charging stations in parking spaces for 91 people working in and visiting the Central Business District to charge their vehicles. As stated in the workshops and given ComEd's awareness that the Beneficial Electrification 92 93 landscape is emerging, electric vehicle infrastructure should be kickstarted in a way that 94 allows for "a multi-pronged, "all of the above" deployment strategy across a wide range of electric vehicle types and Beneficial Electrification applications."³ BOMA/Chicago 95 96 buildings and garages offer convenient, safe, and economic locations for electric vehicle 97 chargers. As workers and tourists from all neighborhoods visit downtown, having electric

³ ComEd Ex. 1.01, Page 5 of 60.

Figure II-1: 2019 Illinois CO2 emissions by sector and Figure II-2: 2021 U.S. CO2 emissions by sector in ComEd Exhibit 1.1,

² https://www.ilsos.gov/departments/vehicles/statistics/electric/2022/electric081522.pdf

98 vehicle charging stations available will support existing electric vehicles already on the
99 road, and also incentivize car owners to purchase electric vehicles.

100 Q: Why does BOMA/Chicago seek to modify ComEd's BE Plan by advocating for

- 101 electric vehicle infrastructure in its buildings?
- 102 A: Under BOMA/Chicago's proposal, the centrally located commercial core of 1.58 sq. miles 103 is not only the business hub of the City of Chicago and the State of Illinois, but the Midwest 104 region. It is the second largest commercial business district in North America and contains 105 the headquarters and regional offices of several global and national businesses. It serves as 106 a central hub for all neighborhoods both culturally and economically. Additionally, 107 Chicago was ranked the second-best city in the world and the only US city that made the 108 top 10 in Time Out's Best Cities in the World list in July 2022. Chicago's tourism industry 109 not only attracts national and international tourists, it also creates a wealth of jobs that 110 support residents from all neighborhoods. Providing EV charging stations across the 111 Central Business District will support both residents and tourists with existing electric 112 vehicles and serve as motivation for others to purchase.

113 Q: Why is BOMA/Chicago seeking assistance to develop electric vehicle infrastructure 114 in its buildings?

A: In addition to addressing rising demand of electric vehicle charging points and the barriers
to mass adoption, the City of Chicago recently adopted changes to its Chicago Zoning
Ordinance to require that at least 20% of new parking spaces be either Electric Vehicle
Supply Equipment (EVSE)-Ready or EVSE-Installed. According to the City of Chicago's
Zoning Ordinance Section 17-10-1011-B. Nonresidential Buildings. "New construction of
a building containing uses other than residential uses where 30 or more parking spaces are

121 provided shall install equipment so that at least 20 percent of the parking spaces are 122 either EVSE-Ready or EVSE-Installed." As more electric vehicles are purchased there will 123 be a similar demand for electric vehicle charging stations as more people return to offices 124 and visit our city. Additionally, the installation costs are significant, with charging stations 125 ranging from \$5,000 to \$10,000, in addition to related consulting, electrical and 126 infrastructure costs. These costs are in addition to current costs of maintaining and 127 operating a building in a historically unprecedented market reeling from the effects of the 128 COVID-19 pandemic.

129 Q: What is BOMA/Chicago's Beneficial Electrification Program proposal?

130 BOMA/Chicago seeks a modification to ComEd's proposal to allow ComEd to provide A: 131 BOMA/Chicago and its buildings with \$10M annually in EV Charging Infrastructure 132 Rebates to facilitate the installation in the central business district of Chicago. According 133 to Section 627/45, the Commission has the authority to modify ComEd's submitted plan. 134 BOMA/Chicago will work with ComEd to identify the building garages, the amount of 135 stations per garage, and facilitate the adoption of electric vehicle infrastructure in 136 downtown Chicago by promoting the program to our building members and help connect 137 them to the program. BOMA/Chicago seeks to optimize significant adoption of electric 138 vehicles, and the confidence that people can drive and park in the city safely.

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Q: How does BOMA/Chicago justify \$10M annually?

A: In order to reduce emissions to achieve long-term climate change goals, assisting the
sector where people work with a large density of population goes a long way to helping
achieve Illinois' long-term climate goals. Currently, nothing exists in ComEd's current
proposal to address this sector.

In addition, BOMA/Chicago estimates that the minimal cost of \$7,500 per unit for 11,000 chargers in the various locations around the central business district is \$82,500,000. These initial costs are only the beginning, as discussed in the cost categories Q and A below.

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Q: How can BOMA/Chicago facilitate its Program?

A: BOMA/Chicago can work with ComEd and can manage its buildings in priority, number
of spaces and provide the people necessary from each building to optimize the efficient
implementation.

151 Q: How can ComEd's proposed program accommodate BOMA/Chicago's Proposal?

152 Given the alignment of BOMA/Chicago's Program with ComEd's proposed Beneficial A: 153 Electrification Plan, we note several areas in ComEd's proposal that can be modified or 154 supplanted, all in compliance with the EVA. For example, ComEd proposes significant EV 155 rebate programs, but such rebates also come from other sources like the Illinois 156 Environmental Protection Agency; However, ComEd's expertise is in the delivery of 157 power, which provides benefits to the Illinois workforce as well. BOMA/Chicago's 158 Program effectively creates high-skilled, clean energy jobs for local residents through the 159 installation of multiple chargers in garages. ComEd will also benefit by working to attach 160 the chargers to their vaults and panels, including likely increasing the capacity in garages 161 that weren't anticipated to be required the extra load. Rebates for purchasing vehicles do 162 not stimulate the Illinois workforce. Installing charging stations does, and this constitutes 163 a win-win for the City and State to accomplish the goals of the EVA.

164 Q: How does BOMA/Chicago envision paying for monthly electricity services from 165 ComEd and an applicable electric supplier?

A: BOMA/Chicago is not taking a formal position on the specifics of ComEd's proposed rate(s) at this time; However, BOMA/Chicago supports a separate delivery class for EV chargers that will be on a separate account, where the load from the chargers does not affect the existing building load and its direct costs. Furthermore, by keeping charging load separate from building load, building managers can more effectively manage their EPA Energy Star Portfolio Manager Score.

172 Q: What are the cost categories for installing electric vehicle charging stations in 173 downtown building garages.

A: The installation of electric vehicle supply equipment includes capital expenses and operating expenses. Capital expenses normally included permitting and consulting fees, electrical distribution infrastructure including transformers where applicable, panels, pipe and wire, a ComEd connection, and the electric vehicle supply equipment (EVSE). There are also design, engineering and construction costs. Operating expenses include the kWh usage, demand and delivery costs, and operations and maintenance.

180 It should be noted that many garages will not have the electric load available to support 181 electrical vehicle chargers as this level of electric output was not anticipated at the time of 182 construction. Reconstructing the electrical load, if necessary, will contribute to additional 183 costs. Determining a consistent installation for building garages is difficult given the many 184 variants, such as the proximity of the charging space to the electric panel.

185 Q: What is your estimation of number of parking spaces in BOMA/Chicago buildings?

A: In a recent survey of BOMA/Chicago buildings with one-third of building members
 responding, 62% of buildings had parking garages representing 18,817 parking spaces, or
 an estimated total 56,000 parking spaces across all member buildings. While 63% of

buildings with garages have electric vehicle charging stations, the vast majority (74%) have
5 or less charging stations in their garages, certainly not enough to meet anticipated demand
or compliance with anticipated ordinances.

192 Q: How does BOMA/Chicago feel its program complies with the EVA?

193 A: BOMA/Chicago's proposal aligns with section 627/45 by supporting and promoting 194 Beneficial Electrification. BOMA/Chicago's proposal increases access to electrification 195 for all consumers who would have a place to charge while visiting the business and civic 196 centers of the City; provides for widespread adoption and acceleration of electric vehicles 197 in Illinois; and helps stimulate innovation, competition and increased choices in charging 198 equipment while attracting private capital investment and creating high quality jobs in 199 Illinois. From a practical standpoint, providing options for charging in the most densely 200 populated area in Chicago provides mobility to everyone, including environmental justice, 201 low income, and restore, reinvest and renew communities, a place to charge their vehicles 202 while working, shopping, and enjoying the various cultural options downtown Chicago has 203 to offer.

Q: Who do you anticipate will be installing, maintaining and repairing electric vehicle
 charging stations in BOMA/Chicago building garages?

A: BOMA/Chicago buildings use professional, typically union contractors. While I am not a lawyer, any work done in a BOMA/Chicago facility would seem to comply with the requirements of 20 ILCS 627/25.

209 Q: Does this conclude your direct testimony?

210 A: Yes.