



Section 1. That the services agreement by and between the Electric Power Research Institute, Inc. ("EPRI") and the Metropolitan Government of Nashville and Davidson County, acting by and through the Metropolitan Mayor's Office, for an Accelerating Resilience of the Community through Holistic Engagement and use of Renewables ("ARCHER") project to minimize the potential burden on local residents due to insufficient energy resilience related to extreme weather events, a copy of which is attached hereto and incorporated herein, is hereby approved.

Section 2. That this Ordinance shall take effect from and after its final passage, the welfare of the Metropolitan Government of Nashville and Davidson County requiring it.

### Analysis

This ordinance approves a services agreement between the Mayor's Office and the Electric Power Research Institute, Inc. ("EPRI") for an Accelerating Resilience of the Community through Holistic Engagement and use of Renewables ("ARCHER") project. The ARCHER project will minimize the potential burden on local residents due to insufficient energy resilience related to extreme weather events.

Pursuant to the terms of the agreement, ARCHER seeks to find optimal locations for distributed energy resources ("DERs"), which are smaller energy generating units such as solar photovoltaic units, to provide energy to local residents when there are disruptions caused by extreme weather events. This ARCHER deployment will partner the Metropolitan Government with Nashville Electric Service, Tennessee State University, and other local community-based organizations. The project will focus on North Nashville as a historically disadvantaged area directly impacted by an extreme weather event in the form of the 2020 tornado. The project will develop a framework to determine optimal locations for a resilience hub in North Nashville and test the framework use data from a recent extreme weather event.

The term of the agreement begins on June 1, 2023, and ends on May 31, 2025.

*Fiscal Note: Metro would provide services for the ARCHER project as in-kind match with an estimated value of \$31,999 for EPRI's grant from Federal Government under Department of Energy Cooperative Agreement DE-EE0010412.*