

**STATE OF TENNESSEE
INFRASTRUCTURE INVESTMENT AND JOBS ACT
(IIJA) GRID RESILIENCE FORMULA GRANT
PROGRAM APPLICATION MANUAL**



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PROGRAM OVERVIEW

The Infrastructure Investment and Jobs Act (IIJA) Section 40101(d) Grid Resilience Formula Grant Program (Program) seeks to improve the resilience of the electric grid against disruptive events. IIJA Section 40101(a)(1) defines a disruptive event as "an event in which operations of the electric grid are disrupted, preventively shut off, or cannot operate safely due to extreme weather, wildfire, or a natural disaster." The Program was designed by the U.S. Department of Energy to strengthen and modernize the power grid against extreme weather, wildfires, and other natural disasters.

The Tennessee Department of Environment and Conservation's Office of Energy Programs (TDEC OEP) is the lead administrator of the Program in Tennessee. TDEC OEP is requesting grant applications for the Tennessee Grid Resilience Formula Grant Program (TN Program) from electric distribution providers in Tennessee (i.e., municipal electric power providers, consumer-owned electric cooperatives, and investor-owned utilities) for eligible grid resilience projects. Applicants must have previously submitted a Concept Paper to TDEC OEP prior to September 24, 2025, to be eligible to submit a grant application.

This grant solicitation will make available an expected \$23 million in funding for eligible applicants, representing three years of federal funding from the five-year Program. Under this solicitation, TDEC OEP expects to award 10-25 projects, with projects ranging in size from approximately \$500,000-\$5,000,000 each. Grants funded under the TN Program will be subject to all applicable federal, State, and local statutes, rules, and regulations, including, but not limited to, the Build America Buy America (BABA) Act, Davis Bacon and Related Acts (DBRA), the National Environmental Policy Act (NEPA), the National Historic Preservation Act, Title VI, State and local construction and permitting requirements, and local zoning regulations.

DEADLINE TO SUBMIT

Applications and supporting documentation must be submitted electronically via the TDEC Grants Management System (GMS), which may be accessed here: <https://tdec.smartsimple.com/>. Applications must be received by 11:59 PM Central, January 21, 2026. TDEC will announce awards after conducting a comprehensive review and evaluation of all complete and eligible grant applications. Grant contracting efforts will occur shortly thereafter.

ELIGIBILITY AND KEY CONSIDERATIONS

Eligible Applicants:

- Eligible applicants include electric distribution providers in Tennessee (i.e., municipal electric power providers, consumer-owned electric cooperatives, and investor-owned utilities) that previously submitted a Concept Paper to TDEC OEP by September 24, 2025.¹

¹ If a proposed project has changed in scope from what was submitted previously within the Concept Paper, there must be some tie or connection to the original concept. If any information submitted within the concept paper has changed or needs to be amended, applicants will have the opportunity in the grant application to detail any and all changes.

- Eligible applicants may also partner as a consortium to submit a single application, covering projects across multiple distribution service territories, provided that a lead organization is designated and that lead organization agrees to serve as the prime subrecipient, if awarded.
- Eligible applicants are limited to one application each; however, multiple activities or project types may be combined and included within a single application.

Eligible Activities:

IJJA Section 40101(e) prescribes the following eligible activities:

- Grid-related weatherization technologies and equipment (i.e., weatherization of grid components and systems, and not the weatherization of a facility or building);
- Fire-resistant technologies and fire prevention systems;
- Monitoring and control technologies;
- Undergrounding of electrical equipment;
- Utility pole management;
- Relocation of power lines or the reconductoring of power lines with low-sag, advanced conductors;
- Vegetation and fuel-load management;
- Use or construction of distributed energy resources for enhancing system adaptive capacity during disruptive events, including microgrids and battery-storage subcomponents;²
- Adaptive protection technologies;
- Advanced modeling technologies;
- Hardening of power lines, facilities, substations, other systems;
- Replacement of old overhead conductors and underground cables; and,
- In combination with any of the above activities, the training, recruitment, retention, and/or reskilling of skilled and properly credentialed workers to perform proposed work.

Ineligible Activities:

- Construction of a new electricity-generating facility;
- Construction of a large-scale battery storage facility that is not used for enhancing system adaptive capacity during disruptive events; and
- Cybersecurity.

Eligible Project Costs:

- Eligible applicants may request grant funding to cover costs associated with the implementation of eligible activities.
- For consortium projects, the primary applicant may also request funding for administrative and/or technical assistance related costs, not to exceed 5 percent of the total grant request.

Cost Match Requirements:

- IJJA Section 40101(h)(1) and (h)(2) require that large utilities that sell more than 4 million megawatt hours per year must provide non-federal cost match of 100 percent of the total

² Please note that new electric generating facilities, e.g., solar facilities, are not allowable under the Program. Energy storage systems, e.g. batteries, are allowable if the system is used to improve grid resilience during disruptive events. https://netl.doe.gov/sites/default/files/2024-09/40101d%20Frequently%20Asked%20Questions_09172024.pdf.

requested grant amount, and small utilities that sell 4 million megawatt hours or less per year must provide non-federal cost match of 1/3 of the total requested grant amount.

- For consortium projects, participating, eligible organizations in the consortium must commit to provide commensurate cost match for their portion of the project, based on the amount of annual electricity sold.
- If the applicant organization or any of its consortium partners are classified as “small utilities,” each applicable organization must upload proof of electricity sold via EIA form 861 for the last reporting year.
- The applicant must also upload a letter of financial commitment from each expected non-federal cost match contributor. Each letter must state the amount and source of funds to be contributed to the project.
- For purposes of the application, applicants will cost match based on the amount of federal funds requested. For eligible entities that sell more than 4 million megawatt hours of electricity annually, the cost match must be no less than the amount of federal funds requested. For eligible entities that sell 4 million megawatt hours or less of electricity per year, the cost match must be no less than one-third of the amount of federal funding requested. The total of the federal funds requested and the cost match provided by the applicant is the expected total project cost.

Grant Project/Reimbursement Timeline:

- Selected Grantees will have three years from the effective date of the grant contract to complete the project. No-cost extensions will be evaluated on case-by-case basis.
- Payment of project expenses will take place on a reimbursement basis. Reimbursement will be made following project completion, commissioning, submission of supporting documentation of costs incurred, and other required invoice documentation. TDEC will not reimburse expenses that are incurred prior to the start date of the grant contract. The Grantee may proceed with its project after it is notified by TDEC that its grant contract has been fully approved and executed.

Additional Considerations:

- Any information submitted in response to the solicitation for the TN Program may be considered public record and will be subject to disclosure to the public as required by Tennessee law. Summarized details regarding the expenditure of funds by TDEC (e.g., cumulative totals for categories of eligible grid resilience activities, identification of recipient funds and their project scopes) will be maintained on the TDEC webpage.
- TDEC is required by Tenn. Code Ann. § 4-3-514(b)(1) to “maintain the confidentiality of all proprietary information it may acquire.” Proprietary information is defined in Tenn. Code Ann. § 4-3-514(b)(2) as “trade secrets and commercial or financial information that is used either directly or indirectly in the business of any person submitting information to the office under this chapter, and that gives such person an advantage or an opportunity to obtain an advantage over competitors who do not know or use such information.” Grant applicants must identify any proprietary information in submitted documents. TDEC will review all submitted information to determine whether it contains any proprietary information. Further, TDEC will maintain a log of the documents that contain proprietary information in order to ensure that the proprietary information is redacted prior to being produced in response to a records request or disseminated for other purposes.

- The application is also subject to the State of Tennessee’s applicable laws governing the public disclosure of personally identifiable information, which are set forth in Tenn. Code Ann. §10-7-504(a)(29). Pursuant to Tenn. Code Ann. § 10-7-503(a)(5), “information made confidential by State law shall be redacted whenever possible, and the redacted record shall be made available for inspection and copying.”
- TDEC reserves the right to not award funds to applicants that have:
 - Failed to submit a complete application;
 - Exhibited poor performance in complying with the expectations and requirements of previous grant contracts with the State of Tennessee; or
 - Regulatory and/or programmatic compliance issues with the State of Tennessee (e.g., is not in compliance with current regulations enforced by TDEC).
- The applicant must certify:
 - That the proposed project is not a cybersecurity project nor is it proposing to construct a new electric generating facility.
 - That there is no planned, actual, or apparent conflict of interest between the applicant and U.S. DOE or between the applicant and TDEC OEP.
 - That the applicant will comply with the National Environmental Policy Act (NEPA) of 1969 and the National Historic Preservation Act (NHPA) of 1966 prior to commencing any construction activities.
 - That it will comply with Build America, Buy America (BABA) Act requirements for the proposed project.
 - That it will comply with the Davis Bacon Act (DBA) as required by 42 U.S.C. § 18851, including the use of LCPTracker for certified payroll submission, for its proposed project.
 - Whether the applicant or any of its partner organizations anticipate that it will involve foreign nationals in the performance of the proposed project.
 - That the applicant will comply with the Federal Funding Accountability and Transparency Act (FFATA).
 - That, if selected to receive an award, the Grantee will comply with required reporting requirements, including quarterly reports, annual reports, and the closeout report.
 - That, if selected to receive an award, the Grantee will comply with 2 C.F.R. §§ 200.317—200.327 when procuring property and services.
 - That the applicant, along with the officers, directors, owners, partners, employees, or agents of the applicant organization, is (are) not presently debarred, suspended, proposed for debarment, or declared ineligible for an award by any State or Federal agency.
 - That the applicant understands that the elements of Title VI compliance correspond to requirements for Title VI as provided for in 42 U.S.C. § 2000(d) and applicable guidance from the Tennessee Department of Human Resources; that the applicant has either adopted and implemented these elements of compliance or has agreed to adopt and implement TDEC’s compliance resources as its own; and that the applicant understands that the applicant’s eligibility for funding is contingent upon its satisfaction of and adherence to the requirements of Title VI, as well as any contractor or subcontractor associated with the project as required by law.
 - That the applicant has successfully submitted and received notification of completion for its annual Title VI Compliance application. The annual Title VI Compliance application requires the following:

- Demographic data from the U.S. Census;
- The applicant's non-discrimination policy;
- The applicant's limited English proficiency plan;
- A copy of the applicant's Title VI training program; and
- A copy of the applicant's procedures for reviewing Title VI complaints.

For questions regarding the annual Title VI Compliance application or to check on the status of an application, please contact TDEC.Grants@tn.gov. For questions specific to Title VI requirements, please contact TDEC.TitleVI@tn.gov.

- That the applicant understands that if the applicant is awarded a grant by TDEC, the applicant will need to show evidence of completion of Title VI training when requested by TDEC.
- That the project being proposed was not also submitted in response to either Round 1 or Round 2 of the U.S. DOE GRIP program.
- TDEC may terminate and cancel this solicitation at any time.

APPLICATION EVALUATION:

TDEC will conduct a comprehensive review of all complete and eligible grant applications, including all required supporting documentation (see the list of required supporting documentation in the Application Requirements section below).³ Applications will be competitively evaluated based solely on the data provided; therefore, completeness and accuracy are important. Each applicant is responsible for submitting all relevant, factual, and correct information with the application. Funding will be awarded based on the merits of the applications. Please note that TDEC may select parts of a proposal for funding and may offer to fund less than the eligible grant amounts and/or a smaller amount than requested in the application.

IJJA Section 40101(d)(6) requires that the State ensure the percentage of subawards made available to entities that sell less than 4 million megawatt hours of electricity per year is not less than the percentage of all customers in the State served by the entities. In Tennessee, 56% of customers are served by distribution utilities that sell not more than 4 million megawatt hours of electricity per year. As such, TDEC OEP will award at least 56% of the grant funding to eligible applicants classified as "small utilities."

Proposed projects will be evaluated by a multidisciplinary team and ranked based on criteria including, but not limited to:

- Alignment with project goals (i.e., reduction in frequency and duration of outages caused by extreme disruptions);
- Demonstrated need for proposed project (how instrumental 40101d funding is to the project completion);
- Demonstration that the project could not be completed without grant funding;
- Anticipated resilience and customer benefits;
- Technical soundness;

³ In addition to TDEC staff members, staff members with grid resilience expertise from external organizations (including TDEC's on-call consultant, Civil & Environmental Consultants, Inc., and from the Tennessee Valley Authority) may serve as additional third-party reviewers.

- Project cost, cost effectiveness, and voluntary cost match commitments beyond the minimum required cost match;
- Geographic indicators (e.g., how the proposed project area scores on the National Risk Index, whether the proposed project falls within a Distressed or At-Risk County as determined by the Appalachian Regional Commission, the number of critical facilities within the proposed project area, current cost of outages in the proposed project area according to the ICE Calculator Cost of Outages tool, wildfire burn risk as determined by USDA Wildfire Simulation Risk Data)⁴
- Whether the project will improve local power company situational awareness regarding outages;
- Estimated project lifespan (i.e., projected useful life of the measures to be deployed);
- Workforce development activities to be conducted as part of the project;
- Applicant team qualifications and experience; and
- Project readiness (e.g., whether the proposed project is anticipated to fall within a NEPA Categorical Exclusion, whether the proposed project anticipates that it will need to apply for a BABA waiver, etc.).

APPLICATION REQUIREMENTS:

Applicants must complete and submit the grant application within the TDEC Grants Management System, accessible at <https://tdec.smartsimple.com/>.

- Applicants are required to attend a virtual application workshop prior to application submission, either by participating during an initial application workshop webinar session or by watching a recorded version of the application workshop webinar (to be posted on TDEC's Grid Resilience Formula Grant Program webpage at <https://www.tn.gov/environment/program-areas/energy/state-energy-office--seo-/programs-projects/programs-and-projects/grid-resilience.html>). The application workshop will provide guidance on the application process and grant contract terms and conditions, including project eligibility, timelines for implementation, and reporting requirements.

Applicants must complete and provide the items listed below within the grant application. Please note that projects may be determined to be incomplete and ineligible for an award if the information provided in the application does not include all of the following supporting documentation.

- Complete and upload the Tennessee Grid Resilience Formula Grant Program application form.
- If the applicant organization or any of its consortium partners are classified as "small utilities," please upload proof of electricity sold via EIA form 861 for each applicable organization for the last reporting year.
- Upload the completed concept paper that was submitted to TDEC prior to completing the full application. If any information submitted within the concept paper has changed or needs

⁴ Geographic indicators will be assessed using the [TN Grid Resilience Mapping Tool](https://www.tn.gov/content/dam/tn/environment/energy/documents/grid-resilience-formula-grant-program/tdec-oep_tasti-grid-tennessee-final-report.pdf) as well as the mapping tool developed by Oak Ridge National Laboratory as part of the Technical Assistance for States and Tribes Initiative Grid Resilience Investment Decision-making (TASTI-GRID) project. https://www.tn.gov/content/dam/tn/environment/energy/documents/grid-resilience-formula-grant-program/tdec-oep_tasti-grid-tennessee-final-report.pdf.

to be amended, detail any and all updates within the Tennessee Grid Resilience Formula Grant Program application form.

- Upload a detailed Project Narrative of no more than 10 pages. Specifically, the applicant should include information on:
 - **Proposed Activities:** Detail the proposed project activities, broken out by electric distribution service territory, if applicable. Include a detailed description of the project goals and objectives. Include the proposed project schedule (not to exceed five years).
 - **Alignment with Program Goals / Anticipated Resilience Benefits:** The purpose of the TN Program is to fund projects that maintain and enhance the reliability and resilience of the electric grid, with the goal of minimizing the frequency and duration of power outages. Detail how the proposed project will achieve this purpose, including any and all relevant metrics that have been measured as a baseline and that will be measured after completion of the project to demonstrate increased reliability and/or resilience. Describe the projected improvements to the system's performance on "black sky" days (days with major disruptive events) (e.g., fewer outages, quicker restoration times, a reduction in the number of affected customers, etc.), including how the improvements will be measured, tracked, and reported. Estimate the anticipated reduction in outages and/or costs (e.g., anticipated reduction in outages for customers in areas that are more susceptible to electric power outages, lower cost to the distribution provider due to improved resilience, avoided costs due to fewer maintenance calls). Include information regarding anticipated benefits to critical infrastructure (e.g., hospitals, water/wastewater treatment facilities, emergency shelters, transit), if known.
 - **Demonstration of Need:** Detail why the proposed project is needed, the types of benefits anticipated / potential negative impacts if the proposed project is not completed, and budgetary constraints that prevent the entity from completing the proposed project without grant assistance. Examples include, but are not limited to, deferred maintenance stemming from insufficient funds; grid disruptions from recent extreme weather, wildfire, or a natural disaster; reliability/resilience issues; demonstrated lack of grid situational awareness; and/or critical infrastructure that is vulnerable and in need of hardening.
- Attach one or multiple project maps to illustrate where the proposed work will be performed or the area of impact (e.g., entire service territory, specific neighborhoods, zip codes, census tracts, etc.). Acceptable map types include aerial, topographic, service territory map, tax map, past project map, or other pertinent GIS images.
- Use the [Tennessee Grid Resilience Mapping Tool](#) to generate and upload an Excel file export of related geospatial metrics, determined by your proposed project's area. Instructions on how to use the Tennessee Grid Resilience Mapping Tool are included within Appendix A.
- Complete the budget summary table within the Tennessee Grid Resilience Formula Grant Program application form. For consortium projects, in addition to detailing the overall budget summary in the table below, please also attach separate budget summaries and budget justifications for each project partner.
- Upload supporting documentation for the budget (e.g., detailed cost estimates from potential vendors for each proposed expenditure).

- Upload a letter of financial commitment from each expected non-federal cost match contributor. Each letter must state the amount and source of funds to be contributed to the project.
- Within the Tennessee Grid Resilience Formula Grant Program application form, detail the number of critical facilities situated in the proposed project site and/or affected service area (reported in whole numbers, a description of their service(s), and address(es)). (If more than 10, provide and upload a description of their services in a separate attachment titled: "Critical Customer Consideration Narrative").
- Submit an Environmental Questionnaire (NETL Form 451.1 1/3) for each work location proposed in the application.

GENERAL GRANT CONTRACT CONDITIONS:

- Projects selected for funding will receive a letter addressed to the contact person specified in the application.
- After the announcement of a grant award, TDEC will forward a grant contract to the recipient. Grantees will be required to execute (sign) the grant contract, which will include a detailed scope of work, project schedule, budget, and other information.
- Grantees will be required to obtain a vendor identification number and will need to submit a Form W-9, Request for Taxpayer Identification Number and Certification. Grantees will also be required to submit bank information via an original automated clearing house (ACH) form in order to receive grant reimbursements electronically. The ACH form must be signed by an authorized account representative and a representative of the associated financial institution.
- The Grantee must comply with 2 C.F.R. §§ 200.317—200.327 when procuring property and services to be funded under the grant contract. Additionally, all vendors must be selected in accordance with State public contracting laws under Tenn. Code Ann. Title 4, Chapter 56; Title 12, Chapter 3; and, Title 12, Chapter 4. The Grantee must obtain prior approval from the State before making any purchases under the grant contract.
- TDEC will make payment to the Grantee based on review of reimbursement requests detailing eligible costs with accompanying invoices, actual costs at time of purchase, and documentation of project completion. TDEC will not fund costs in excess of the requested grant amount.
- Grantees will only be reimbursed for costs incurred by the Grantee during the grant contract term.
- TDEC will exercise project monitoring activities, including but not limited to, conducting site visits; reviewing performance and financial reports; providing technical assistance and/or temporary intervention in unusual circumstances to address deficiencies that develop during the project; assuring compliance with grant contract terms and conditions; and reviewing technical performance after project completion to ensure that the project objectives have been accomplished.
- Reporting:
 - All laborers and mechanics employed by the Grantee, contractors, or subcontractors in the performance of construction, alteration, or repair work in excess of \$2000 must be paid wages at rates not less than those prevailing on similar projects in the locality, as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code commonly referred to as the "Davis-Bacon

Act” (DBA). The Grantee must ensure the timely electronic submission of weekly certified payrolls to LCPtracker unless a waiver is granted to a particular contractor or subcontractor because they are unable or limited in their ability to use or access the software.

- The Grantee must submit quarterly reports to include a complete description of the status of the project, including related updates on project milestones and metrics. Quarterly reports are due no later than January 10, April 10, July 10, and October 10 of each year of the grant contract term.
- Grantees will be required to submit an Annual Program Metrics and Impact report for each year of the grant contract term and for a period of five years following project completion. Annual reports will include information on resilience metrics, workforce development and training metrics, as well as community engagement metrics.
- Grantees must submit a final project report within three months of the completion of the grant contract term. (Please note that this report may be combined with the annual report for the final year of the grant contract term.) In addition to the information requested for the annual report, the final project report must also include cumulative financial information to match the final reimbursement request as well as inventory documentation for all equipment purchased with funding through the grant contract. The inventory documentation must include, at a minimum, the following:
 - Description of the equipment;
 - Manufacturer’s serial number or other identification number, when applicable;
 - Consecutive inventory equipment or identification;
 - Acquisition date, cost, and check number;
 - Fund source, State grant number, or other applicable fund source identification;
 - Percentage of state funds applied to the purchase;
 - Location within the Grantee’s operations where the equipment is housed;
 - Condition of the property or disposition date if Grantee no longer has possession;
 - Depreciation method, if applicable; and
 - Monthly depreciation amount, if applicable.
- Failure to comply with ongoing reporting requirements following the final reimbursement may result in the required refund of any or all payments made to the Grantee by the State.
- The Grantee will use quarterly, annual, and final report templates provided by TDEC. These templates will be referenced in the grant contract and will be attached to the corresponding grant program manual.
- The Grantee will be responsible for providing all the information required to complete the reports.
- Accounting and Financial Controls:
 - Grantees must properly manage and account for funding received. A complete spending record for all expenditures will be required, including invoice receipts, logs of record, and other properly certified documents.
 - Only purchases made within the grant contract term of a fully executed and approved grant contract are eligible for reimbursement. No credit will be given

for costs incurred prior to the start of the grant contract term. Documentation will be required for all funds requested. Any applicant who starts a project and incurs costs before receiving a fully executed grant contract does so at its own risk.

- All funding must be spent in accordance with the grant contract.
- TDEC reserves the right to terminate the grant contract and/or recover funding from Grantees that TDEC determines are not in compliance with the conditions of this solicitation or the grant contract.
- TDEC will not automatically grant project extensions. Requests for extensions will be evaluated on a case-by-case basis.
- TDEC reserves the right to monitor projects and to audit any Grantee's financial transactions or compliance with the grant contract.
- **Public Notice:** TDEC encourages Grantees to publish or otherwise make publicly available the results of work performed and vehicle purchases made under grant contracts. All notices, informational pamphlets, press releases, research reports, signs, and similar public notices prepared and released by Grantees in relation to a grant contract should include the statement, "This project was funded in part under a grant contract with the State of Tennessee, Department of Environment and Conservation, under the Tennessee Grid Resilience Formula Grant Program, funded under the Infrastructure Investment and Jobs Act."

DEFINITIONS:

Cost Match The Program cost match (non-federal share) is calculated as a percentage of the awarded federal funds only, rather than a percentage of the total project cost.

Formula Grant A formula grant is a type of financial assistance award in which the government awards grants to eligible applicants, with the grant amount being based on a prescribed formula. Section 40101(d) prescribes a formula to allocate Section 40101(d) funds to States and Indian tribes. The formula includes five factors based on population, land area, probability of disruptive events, economic impact of past disruptive events, and amount of expenditures spent to mitigate likelihood and consequence of disruptive events.

GDO The Grid Deployment Office (GDO) is the programmatic office within the U.S. Department of Energy responsible for implementing Section 40101(d) and other IIJA grid resilience programs.

New Generation IIJA Section 40101 prohibits using a grant awarded to an eligible applicant under the Program for construction of a new electric generating facility. In this context, new generation is defined as construction of a facility that produces electricity, including emergency back-up generation, solar generation or any other electric generation unit or facility.

Power Line The term "power line" includes a transmission line or a distribution line, as applicable. Distribution power lines have a capacity below 69kV.

Section 40101(d) Section 40101(d) of the IIJA (42 U.S.C. § 18711) is the provision that authorizes the U.S. Department of Energy to award formula grants to States and Indian tribes to improve the resilience of their electric grids.

Small Utility As defined in IJJA Section 40101(h)(2) for the purpose of the Program, a Small Utility sells not more than 4 million megawatt hours of electricity per year.

Weatherization Technologies or equipment that can be used to enhance reliability and resiliency of electric grid components in preparation for extreme weather conditions.

RESOURCES AND CONTACT

Resources

For additional information about the Grid Resilience Formula Grant Program, please refer to:

- **[TDEC OEP's Grid Resilience Formula Grant Program webpage](#)**
- **[DOE's Grid Resilience State/Tribal Formula Grants Program webpage](#)**

Program Contact:

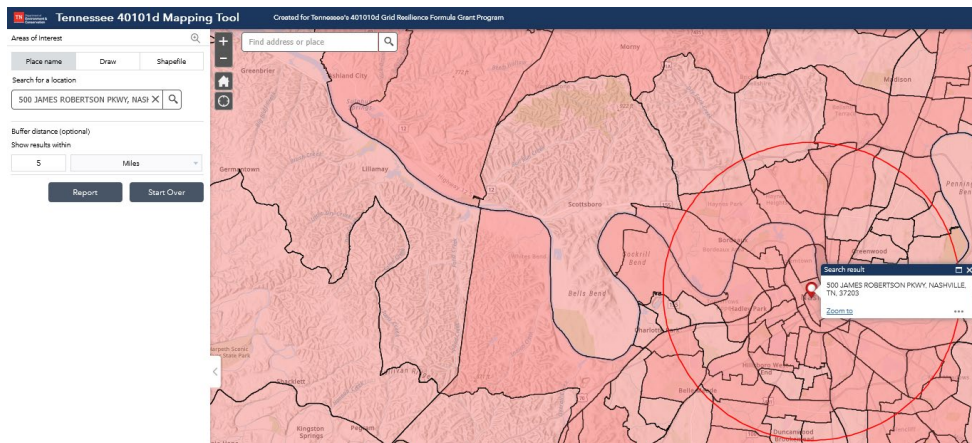
All communications (regular mail, express mail, electronic mail, or fax), concerning this application and award process must be addressed to:

The Office of Energy Programs – Grid Resilience Formula Grant Program
Tennessee Department of Environment and Conservation
C/o Erik Schmidt, Energy Program Administrator
Davy Crockett Tower, 9th Floor
500 James Robertson Parkway
Nashville, TN 37243
615-982-9035
Erik.Schmidt@tn.gov

APPENDIX A – TENNESSEE GRID RESILIENCE MAPPING TOOL

TDEC OEP has combined a variety of geospatial datasets focused on natural hazard risk, at-risk electricity-dependent Medicare beneficiaries, and economic vulnerability within the [Tennessee Grid Resilience Mapping Tool](#). Please use this tool to generate and upload an Excel file export of related metrics, determined by your proposed project's area.

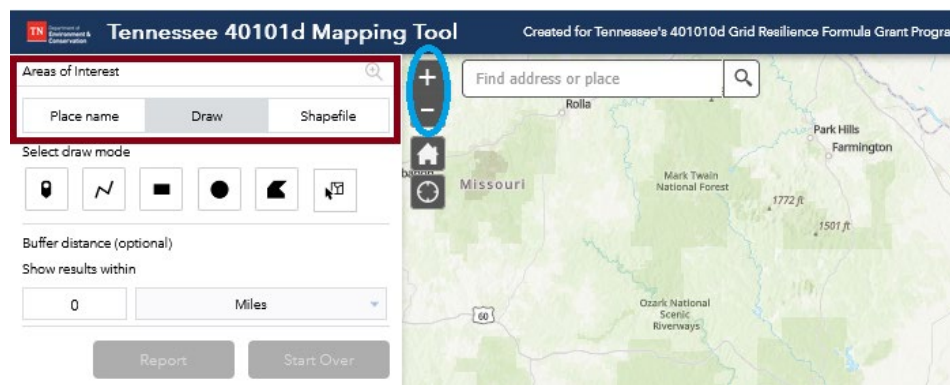
1. Visit the mapping tool website here:
<https://storymaps.arcgis.com/stories/8e67719ab5774995841a015e02bdc526>.
2. To generate an Excel file export of related metrics, choose one of the **three** options, which are represented by the links underneath *Areas of Interest*, located on the left side banner.



A. **Option 1:**

Type an address into the search bar if the project area can confidently be limited to one census tract.

If the project area covers a certain mile radius from the address, it's possible to populate the number of miles away from the address that should be considered in the report by entering a number into the **Buffer Distance section** immediately below the *Address* search bar.



B. **Option 2:**

Draw the approximate boundaries for your project area by using the *Draw* tool. It's possible to zoom into a project area using the plus and minus (+/-) sign encircled in blue above.

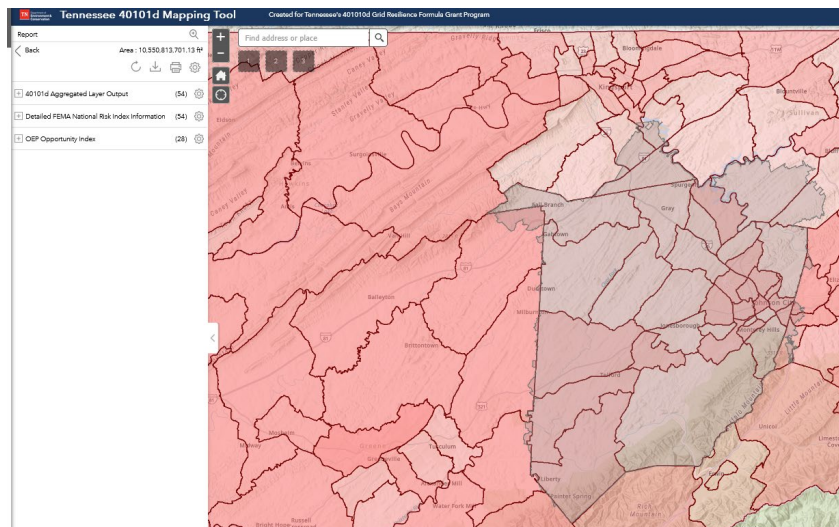
The screenshot shows the 'Tennessee 40101d Mapping Tool' interface. The 'Areas of Interest' section is active, with tabs for 'Place name', 'Draw', and 'Shapefile'. The 'Draw' tab is selected. Below the tabs, there is a text input field for 'Place name', a 'Draw' button, and a 'Shapefile' button. A link 'Upload a zipped shapefile' is also present, followed by an 'Upload' button. Below this, there is a 'Buffer distance (optional)' section with a text input field set to '0' and a dropdown menu set to 'Miles'. At the bottom, there are 'Report' and 'Start Over' buttons. On the right side, there is a vertical toolbar with a search icon, a zoom in (+) button, a zoom out (-) button, a home button, and a refresh button. The background shows a map of Tennessee with a red-shaded area of interest.

C. **Option 3:**

Upload a shapefile of the project boundaries.

If you decide to switch between the different options, please click “Start Over” before initiating a new report query or the report will not reset.

- Regardless of how the project area is outlined, after the area is selected, click on the *Report* button at the bottom of the *Areas of Interest Banner*. The larger the area, the longer it will take the screening tool to display outputs.



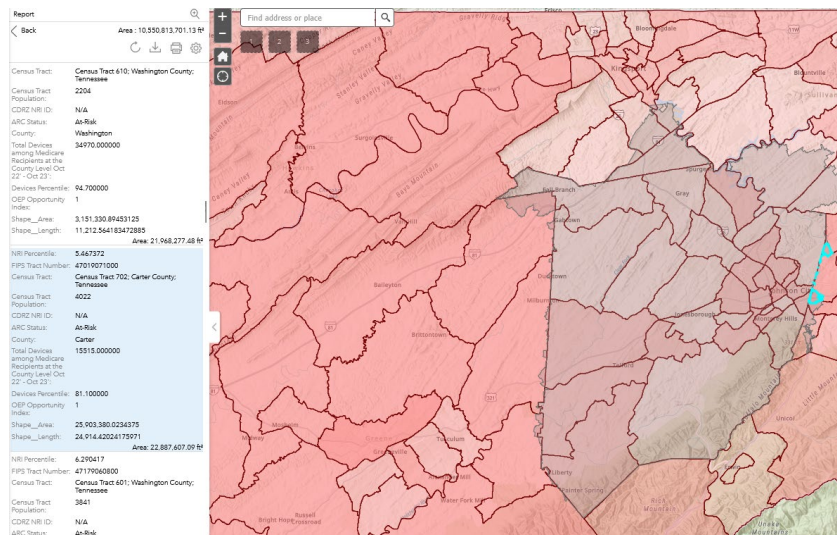
In this example, BrightRidge's service territory is uploaded and lightly shaded in gray and there are:

- 54 outputs for the *40101d Aggregated Output* and the Detailed FEMA National Risk Index Information, which demonstrates that there are 54 census tracts inside the project boundary.
- 28 outputs for the OEP Opportunity Index, which indicates that 28 out of the 54 census tracts in the project area triggered at least one indicator (i.e., at the 90th percentile or above for Tennessee) within the OEP Opportunity Index.

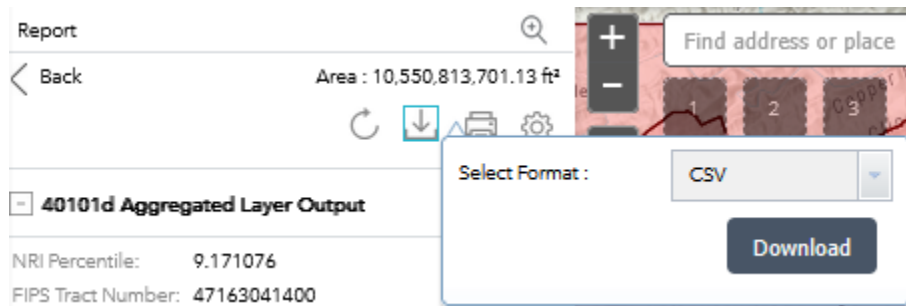
4. Click on the plus (+) sign next to any of the outputs to observe a detailed breakdown of each score in the form of a dropdown menu.

In this example, clicking into the Detailed FEMA National Risk Index Information section will reveal Natural Hazard Risk for 18 different categories. Clicking the OEP Opportunity Index will reveal whether the corresponding census tract is in the statewide 90th percentile for a population statistic of interest.

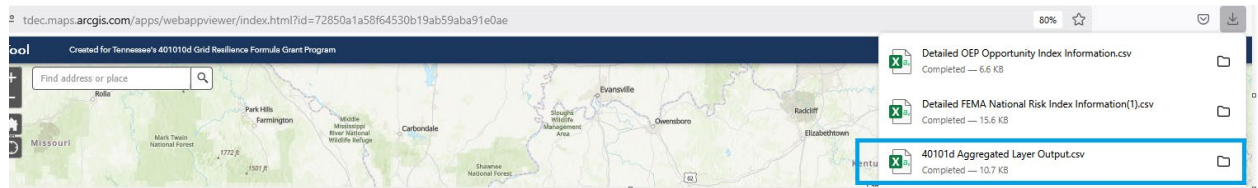
Clicking on any of the census tracts from that dropdown will highlight which census tracts intersect with the project boundary.



5. To copy the required information, click the download link located at the top of the banner displaying the report outputs.



6. There will be three downloaded files. Save the file titled *40101d Aggregated Layer Output*.



7. Upload the *40101d Aggregated Layer Output* to the TDEC Grants Management System (GMS) application.