



## Grid Deployment Office

### U.S. Department of Energy (DOE)

#### Fiscal Year 2024 Data Sources for DOE's Allocation of Funds under the BIL Section 40101(d) – Formula Grants to States and Indian Tribes for Preventing Outages and Enhancing the Resilience of the Electric Grid

#### Data Sources

##### Population Data Sources

*U.S. States + D.C. + Puerto Rico*<sup>1</sup>: U.S. Census Bureau July 2022 Annual Estimates of the Resident Population for the United States, Regions, States, District of Columbia, and Puerto Rico - <https://www.census.gov/data/tables/time-series/demo/popest/2020s-state-total.html#v2022> (last accessed October 2023)

*U.S. Territories* (except Puerto Rico): U.S. Census Bureau 2020 Island Areas Censuses (last accessed October 2023)

- American Samoa - <https://www2.census.gov/programs-surveys/decennial/2020/data/island-areas/american-samoa/population-and-housing-unit-counts/american-samoa-phc-table01.pdf>
- Guam - <https://www2.census.gov/programs-surveys/decennial/2020/data/island-areas/guam/population-and-housing-unit-counts/guam-phc-table01.pdf>
- Northern Mariana Islands - <https://www2.census.gov/programs-surveys/decennial/2020/data/island-areas/commonwealth-of-the-northern-mariana-islands/population-and-housing-unit-counts/commonwealth-northern-mariana-islands-phc-table01.pdf>

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<sup>1</sup> State populations were adjusted by federally recognized tribal and eligible tribal band enrollment estimates to minimize double counting in the allocation formula. For federally recognized tribes and eligible tribal bands that cross state lines, DOE primarily used 2020 Decennial Census (DEC) Geography Estimates to estimate tribal population in each State - [https://data.census.gov/map?layer=VT\\_2020\\_250\\_00\\_PY\\_D1&mode=thematic&loc=36.3964,-116.9126,z5.2299](https://data.census.gov/map?layer=VT_2020_250_00_PY_D1&mode=thematic&loc=36.3964,-116.9126,z5.2299) (last accessed October 2023)

- U.S. Virgin Islands - <https://www2.census.gov/programs-surveys/decennial/2020/data/island-areas/us-virgin-islands/population-and-housing-unit-counts/us-virgin-islands-phc-table01.pdf>

*Indian Tribes:*

- **Federally Recognized Tribes/Eligible Tribal Bands** - U.S. Bureau of Indian Affairs (BIA) 2023 tribal enrollment data. BIA 2021 enrollment was used if 2023 enrollment was not submitted by the federally recognized tribe or eligible tribal band.<sup>2</sup> Fiscal Year 2024 enrollment data from the U.S. Department of Housing and Urban Development (HUD) Indian Housing Block Grant Program (IHBG) was used in place of any federally recognized tribes that did not wish to disclose their self-certified enrollment data to BIA - [https://www.hud.gov/sites/dfiles/PIH/documents/FY\\_2024\\_Estimate-Grant\\_Summary.pdf](https://www.hud.gov/sites/dfiles/PIH/documents/FY_2024_Estimate-Grant_Summary.pdf) (last accessed October 2023)
- **Alaska Native Village Corporations (ANVCs)** – For 70 of the 182 eligible ANVCs, shareholder estimates were obtained from ANVC websites. For ANVCs whose websites did not have shareholder estimates, the data needed was obtained via direct outreach to ANVCs, supplemented where necessary, with sources identified through additional research. For the remaining ANVCs with no shareholder information available, ANVC populations were estimated by summing the enrollment of their associated federally recognized tribes, if applicable. For ANVCs not associated with a federally recognized tribe, DOE estimated population from its associated non-federally recognized tribal community, village, or region from additional research.
- **Alaska Native Regional Corporations (ANRCs)** – ANRC shareholder estimates were obtained primarily from ANRC websites. In cases where shareholder estimates were not available on ANRC websites, estimates were taken from company profiles on online platforms.

Area Data Sources

*U.S. States + D.C. + U.S. Territories*<sup>3</sup>: U.S. Census Bureau 2022 American Community Survey (ACS) Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER®) database - [https://tigerweb.geo.census.gov/tigerwebmain/Files/bas23/tigerweb\\_bas23\\_state\\_2022\\_acs2\\_us.html](https://tigerweb.geo.census.gov/tigerwebmain/Files/bas23/tigerweb_bas23_state_2022_acs2_us.html) (last accessed October 2023)

*Indian Tribes:*

- **Federally Recognized Tribes/Eligible Tribal Bands** - U.S. Census Bureau 2022 TIGERweb Representational State Transfer (REST) services American Indian, Alaska Native, and Native Hawaiian Areas -

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<sup>2</sup> BIA tribal enrollment data is confidential and therefore not linked in this source document.

<sup>3</sup> State total area estimates were reduced by Indian Tribe land area estimates (including federally recognized tribes, eligible tribal bands, and Alaska Native Corporations) to eliminate double counting in the allocation formula. For Indian Tribes that cross State lines, DOE utilized TIGERweb and LAR shapefiles to estimate the amount of tribal land area in each State.

[https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb\\_restmapservice.html](https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_restmapservice.html). For federally recognized tribes with their tribal area not listed in Census' TIGERweb database, BIA provided total area estimates for Land Area Representations (LARs).<sup>4</sup> DOE primarily identified jurisdictions associated with each federally recognized tribe or eligible tribal band using the U.S. Federal Emergency Management Agency (FEMA) National Risk Index (NRI) Tribal – County Relationships Table - <https://hazards.fema.gov/nri/data-resources>. For federally recognized tribes with no area information from Census or BIA, DOE conducted additional research to determine the best available area data.

- **Alaska Native Village Corporations (ANVC)** – Surface land ownership was collected via direct outreach to ANVCs. If unavailable, DOE coordinated with the U.S. Department of the Interior's (DOI) Bureau of Land Management (BLM) to obtain the relevant data from the Alaska Case Retrieval Enterprise System (ACRES) database. - [https://sdms.ak.blm.gov/acres/acres\\_menu](https://sdms.ak.blm.gov/acres/acres_menu)
- **Alaska Native Regional Corporations (ANRC)** – Surface land ownership was collected from outreach to ANRCs or from ANRC websites.

#### Disaster Declaration Data Sources

*U.S. States + D.C. + U.S. Territories + Indian Tribes: FEMA Disaster Declaration Summaries –* <https://www.fema.gov/openfema-data-page/disaster-declarations-summaries-v2> (last accessed May 2023)

- To estimate federally declared disasters or emergencies that may have impacted federally recognized tribes and eligible tribal bands but were not officially requested by the tribe or band, DOE utilized FEMA's NRI Tribal-County Relationships Table (<https://hazards.fema.gov/nri/data-resources>) to map federally recognized tribes and eligible tribal bands to FEMA designated areas.<sup>5</sup> For federally recognized tribes not listed in the Tribal – County Relationships Table, additional web-based research and direct outreach was conducted to identify the designated areas. Designated areas for ANRCs were estimated using Geographic Information System (GIS)-based maps available on ANRC websites or from a map of ANRC conveyed lands.<sup>6</sup> Disasters that may have impacted ANVCs were estimated based on disasters mapped to their associated federally recognized tribe(s). Additional research was conducted for those ANVCs not associated with a federally recognized tribe to determine the location of the ANVC or associated tribal community.

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<sup>4</sup> LAR is a GIS dataset that contains land areas for federally recognized tribes. BIA shared 2019 LAR data directly with DOE in July 2023.

<sup>5</sup> A designated area is a geographic area authorized for assistance for a particular disaster declaration under the Robert T. Stafford Disaster Relief and Emergency Assistance Act, *as amended*, (Stafford Act), 42 U.S.C. §5121 et seq. (2022).

<sup>6</sup> See <https://www.arcgis.com/apps/mapviewer/index.html?layers=40f5e01e1c53401f8b8cebede55462f7> (last accessed October 2023)

## Risk Index Data Sources

*U.S. States + D.C. + U.S. Territories:* FEMA's National Risk Index (NRI) All Census Tracts – Tract-level Detail Table - <https://hazards.fema.gov/nri/data-resources> (last accessed April 2023)

- Note that FEMA does not have NRI risk scores for U.S. Territories. For Puerto Rico and the U.S. Virgin Islands, DOE used Census tract-level risk scores in Palm Beach County, Florida (weighed by each territory's population share) as proxies for disaster risk. For Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands, DOE used Census tract-level risk scores in Maui County (weighed by each territory's population share) as proxies for disaster risk.

## *Indian Tribes:*

- **Federally Recognized Tribes/Eligible Tribal Bands** - FEMA's National Risk Index Tribal-Tract Relationships Table - <https://hazards.fema.gov/nri/data-resources> (last accessed April 2023). For federally recognized tribal jurisdictions not listed in the Tribal-Tract Relationships table, DOE conducted additional research to approximate the general location and corresponding census tract(s) of the federally recognized tribe.
- **Alaska Native Village Corporations** – ANVC NRI risk scores were estimated by averaging risk scores of the ANVC's associated federally recognized tribe(s), since ANVCs are typically in the same region as their associated federally recognized tribe(s). For ANVCs associated with a non-federally recognized tribe or community, DOE conducted additional research to determine the general location and corresponding census tract(s) of the ANVC or associated community to estimate risk scores.
- **Alaska Native Regional Corporations** – ANRC NRI risk scores were estimated by overlaying the NRI map with ANRC conveyed lands to identify which tracts comprise the majority of each ANRC - <https://www.arcgis.com/apps/mapviewer/index.html?layers=40f5e01e1c53401f8b8cebede55462f7> (last accessed October 2023)