

2018 Transmission and Substation Report

Year in Review and Short Term Outlook

March 2019

Overview

This report has been assembled using data from the Energy Acuity Grid Database, which includes a combination of state regulatory, independent system operator, news, and public solicitation data. It highlights 2018 transmission and substation development and how it compares to forecasted expansion between 2019-2020, and in some cases 2021.

2018 saw a notable decrease in the number of transmission line projects that went operating compared to 2017; however, 2018 project investment and project size were up year-over-year, but lower than all years between 2013 through 2016. Of the transmission projects that went operating in 2018, most consisted of either new lines or line rebuild projects with voltages ranging between 69 and 230 kV. Top developers were investor-owned utilities in the southern states and California. AEP's portfolio of companies has the largest pipeline of planned transmission projects.

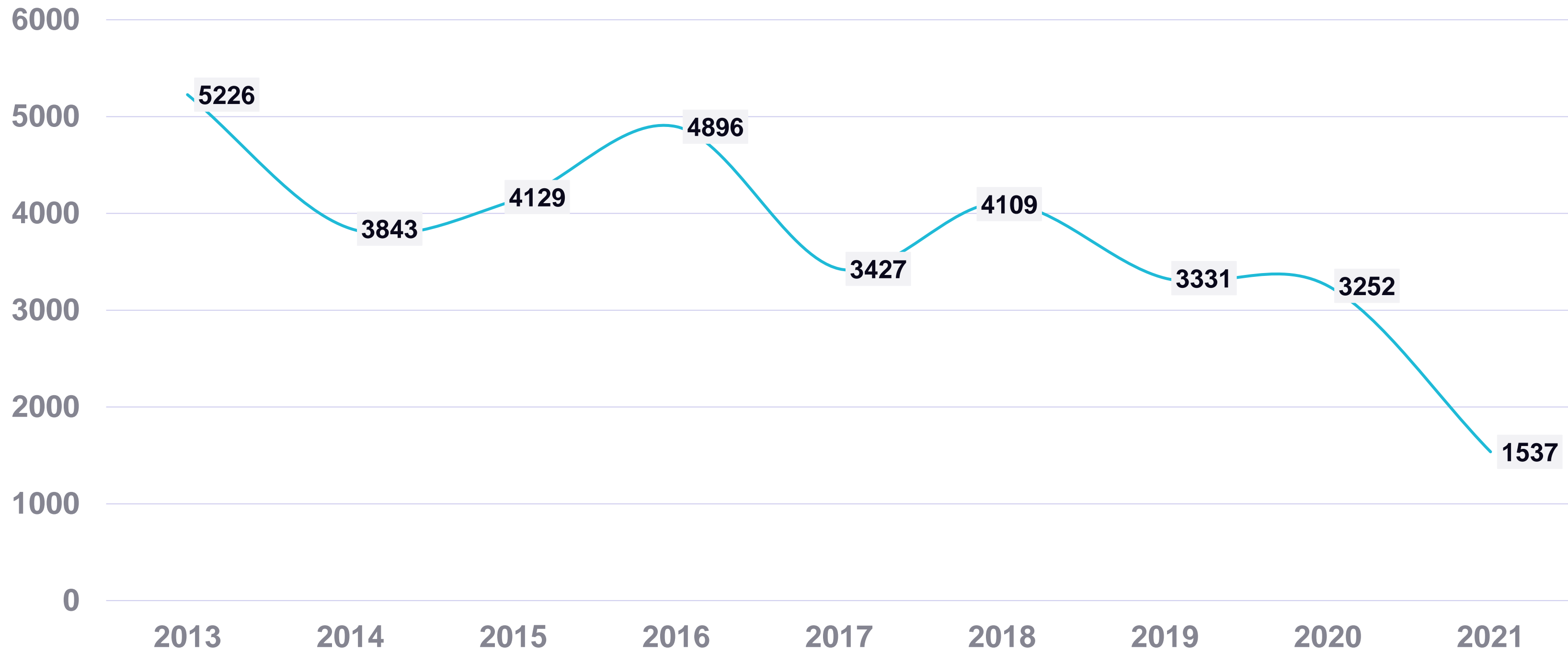
RFP activity was steady throughout the year for both Transmission and Substation projects, with the months September and October seeing an identical number of bids issued for both technology types. Summer months saw the highest volume of newly issued RFPs.

Texas, Nebraska, and California saw the most activity in substation upgrades and new project development. Between the years 2019 and 2020, there is a larger portion of new substations in the 230-344 kV range with significant project pipelines from AEP, Xcel and Entergy. Georgia Power, Pacific Gas & Electric and Oncor have the largest numbers of operating substation assets.

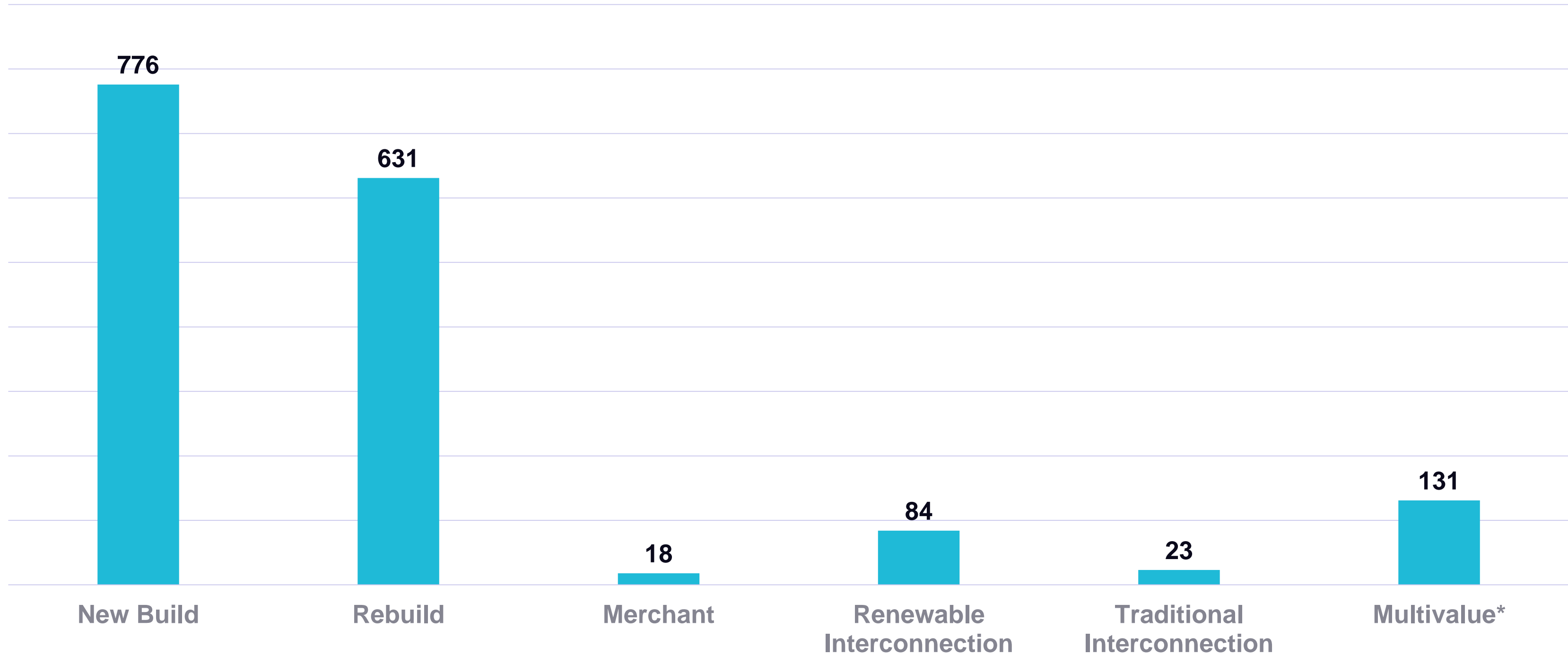
Transmission Projects Operating and Investment by Year



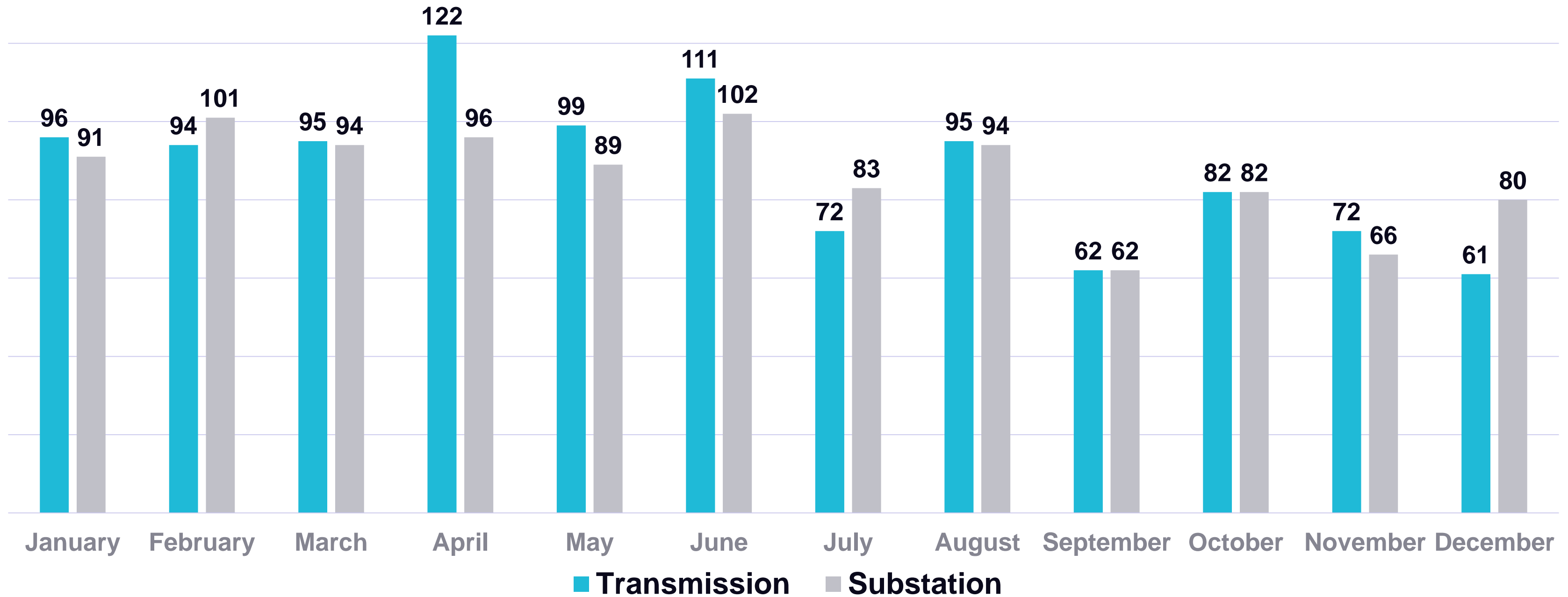
2013-2021 Operating Transmission Projects by Mileage



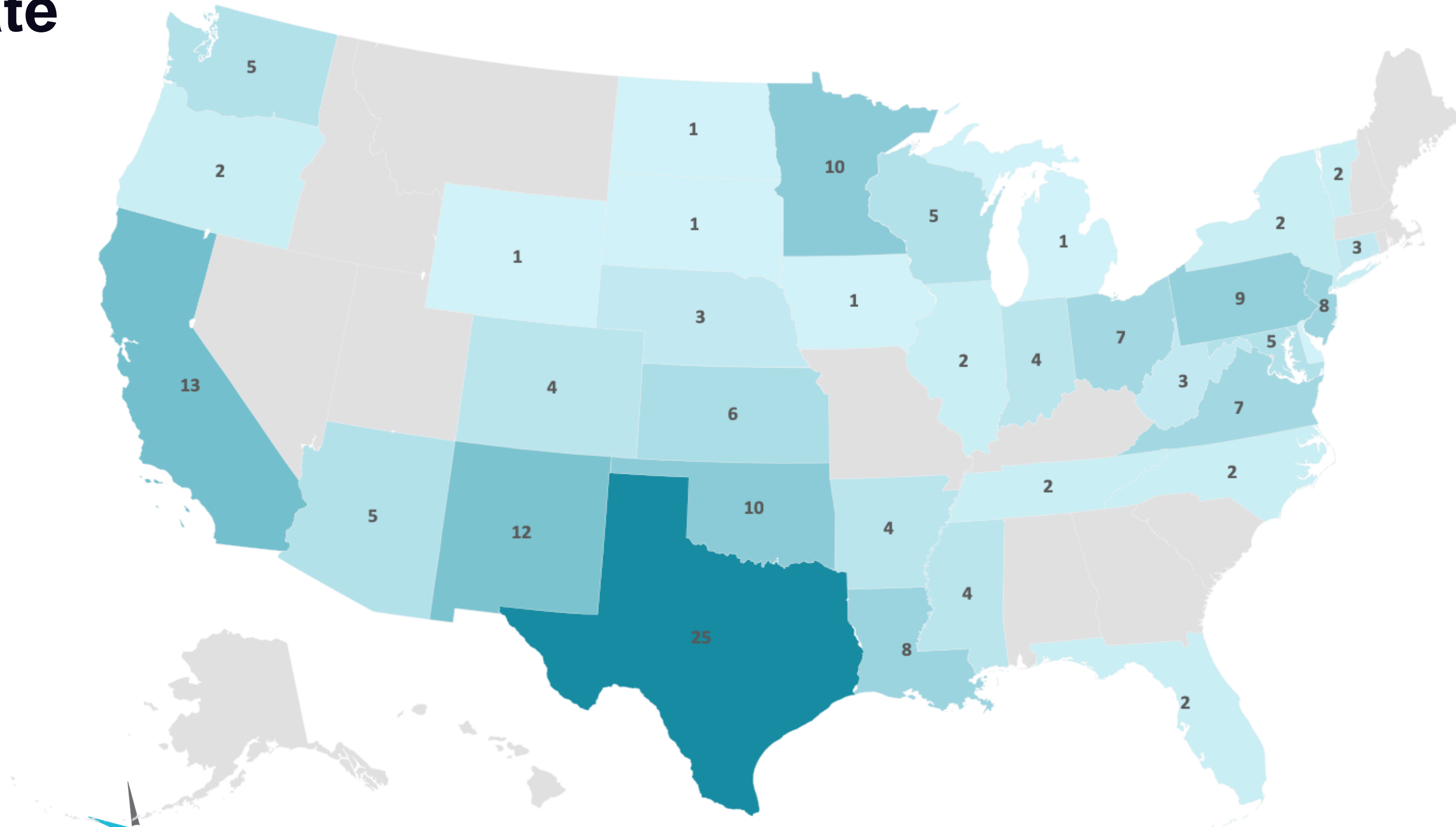
2013-2021 Operating Transmission Project Types



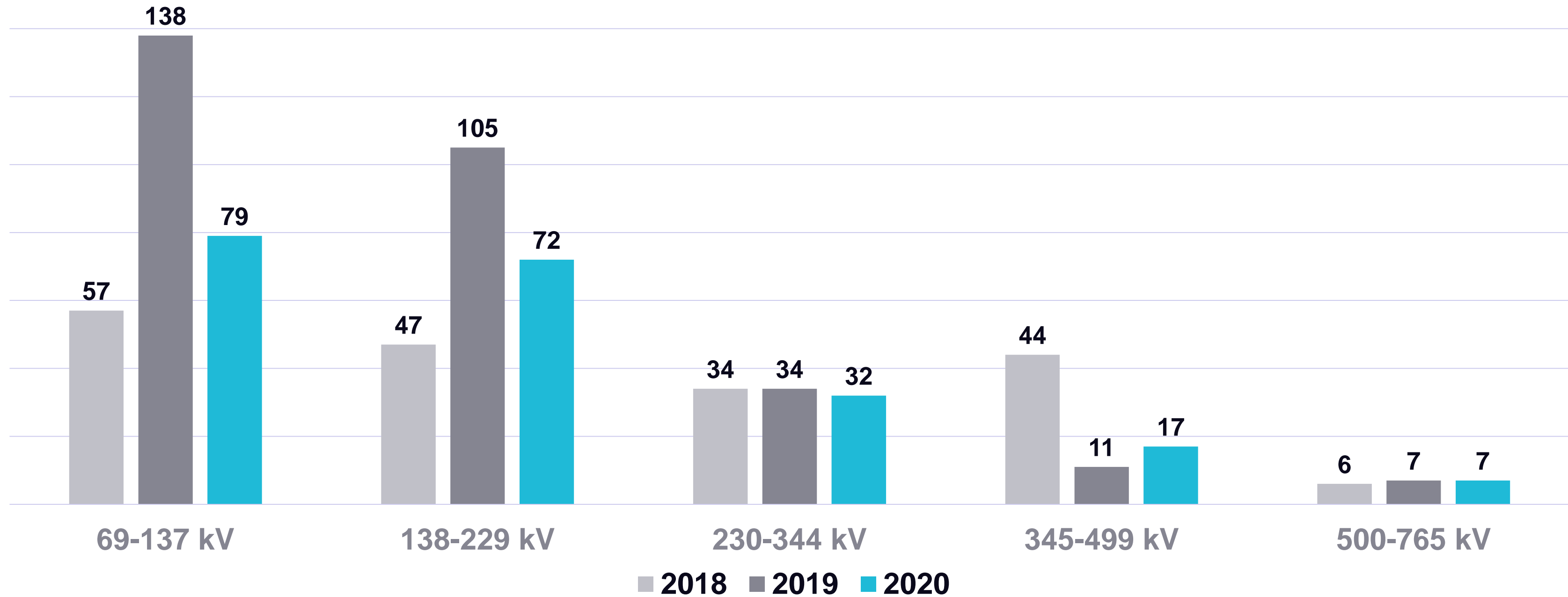
2018 Transmission and Substations RFPs by Month



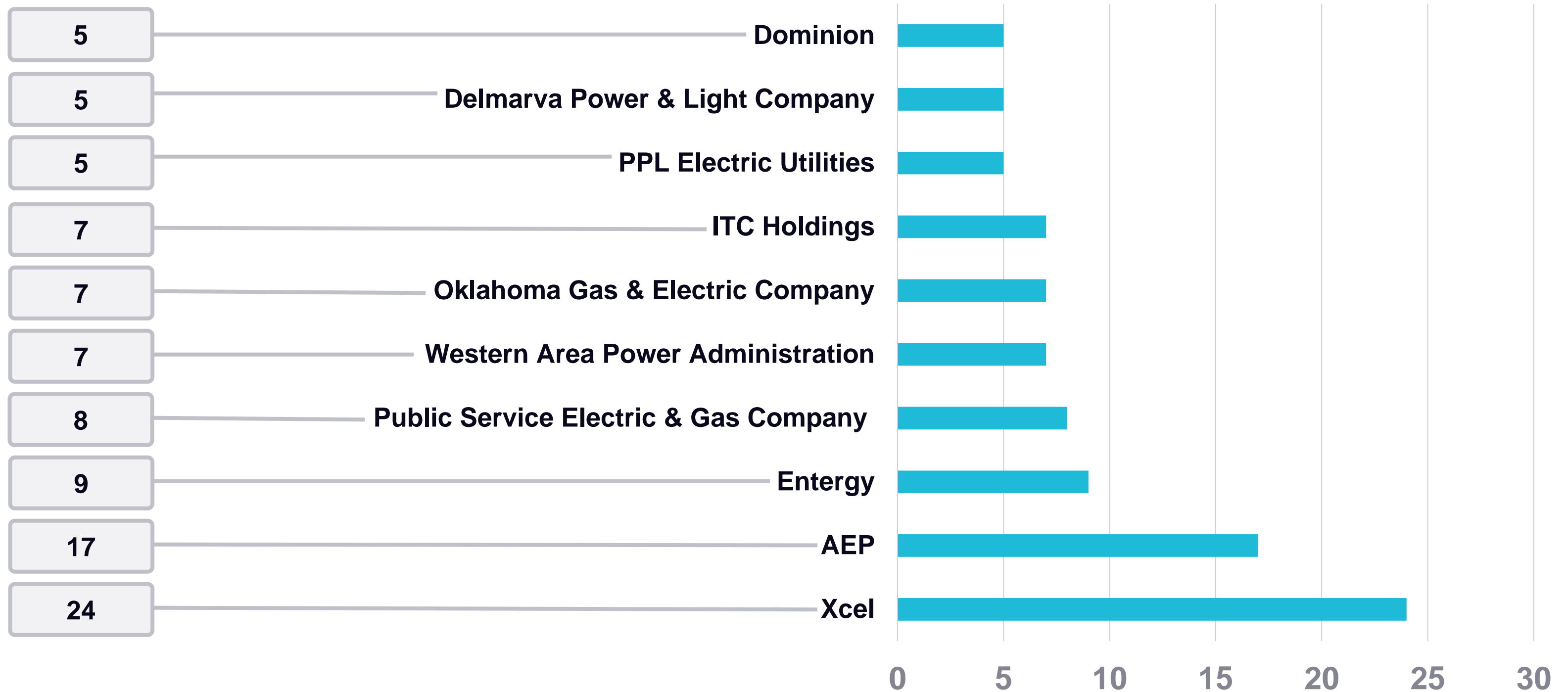
2018 Operating Transmission Projects by State



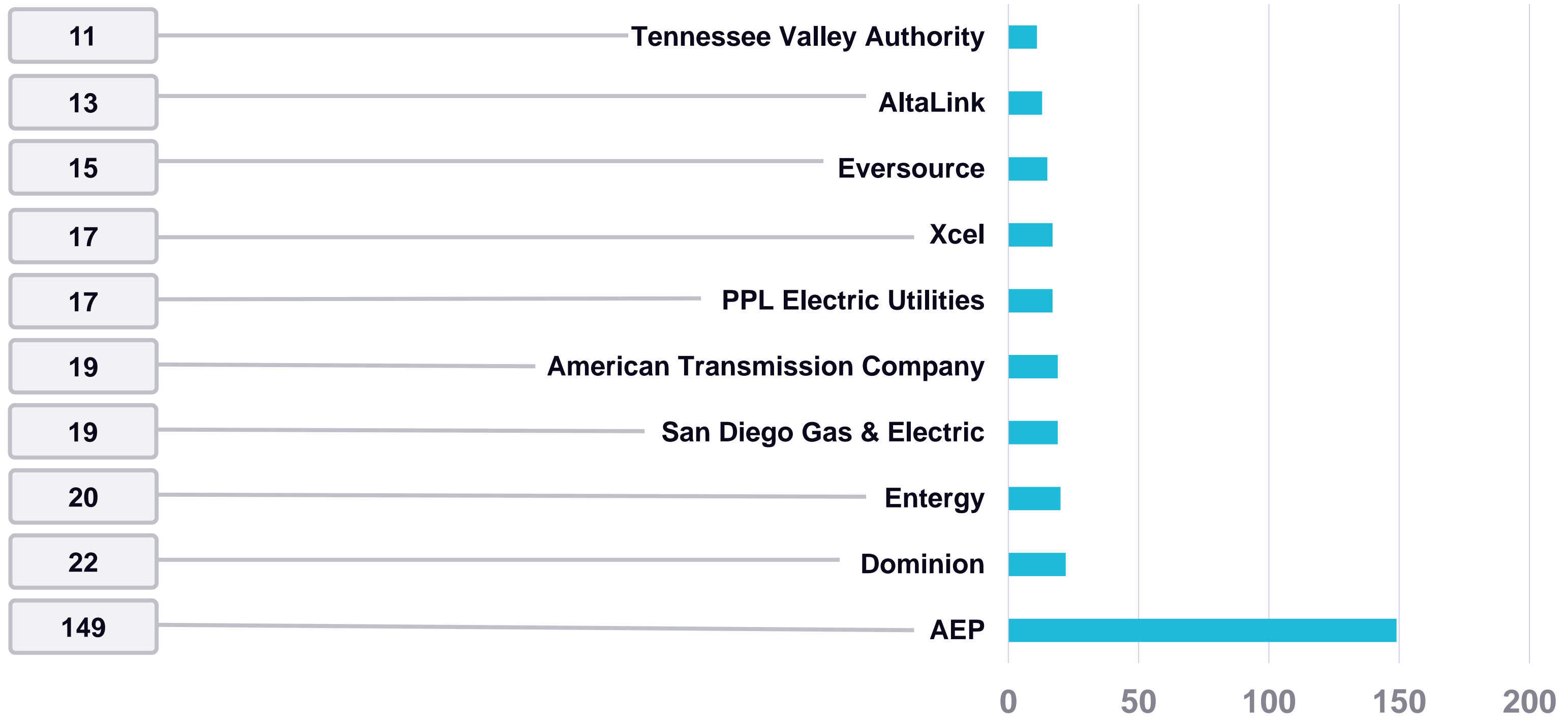
2018-2020 Operating Transmission Projects by Size



2018 Top Transmission Developers by Operating Projects



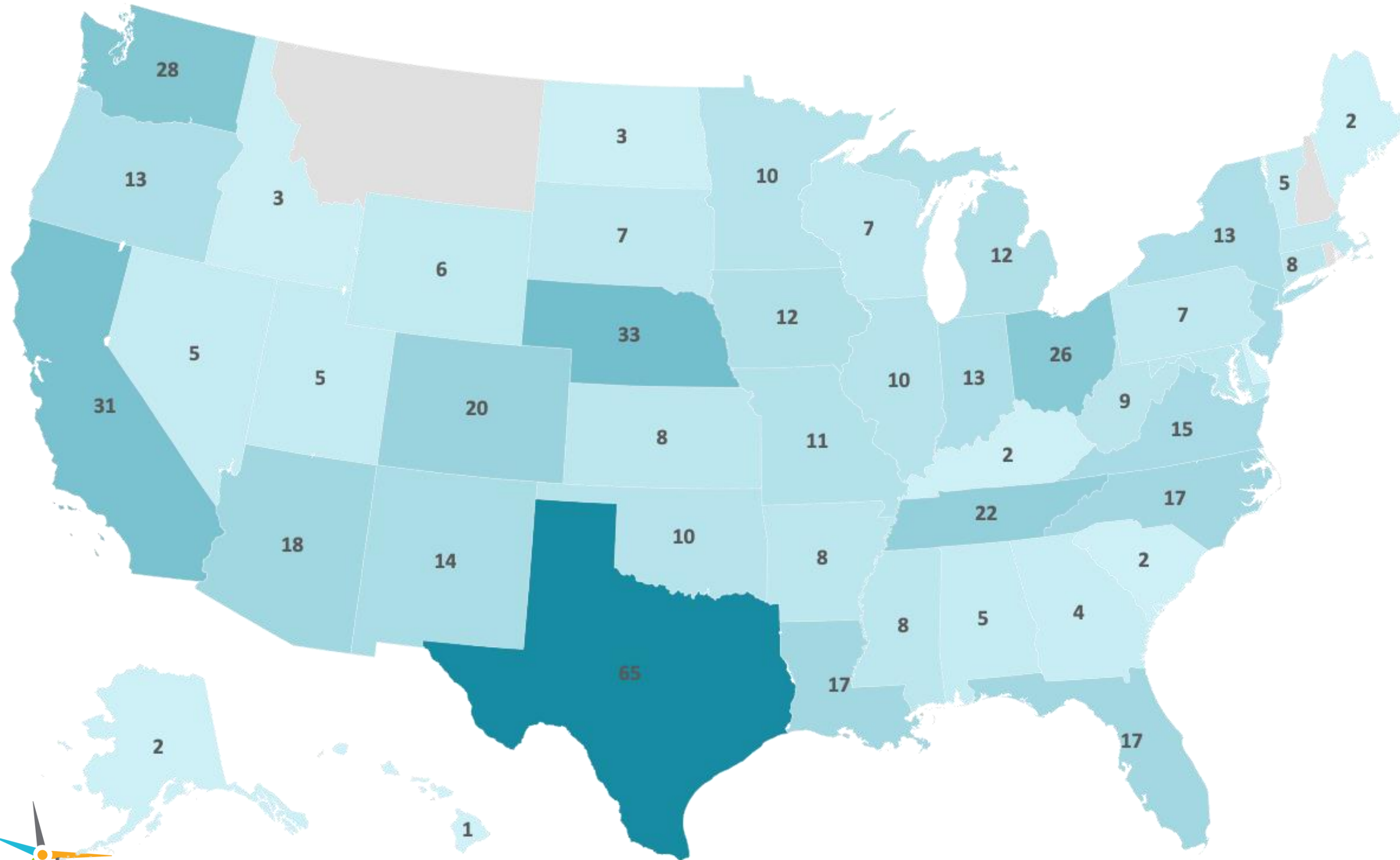
2019-2020 Top Transmission Developers by Operating Projects



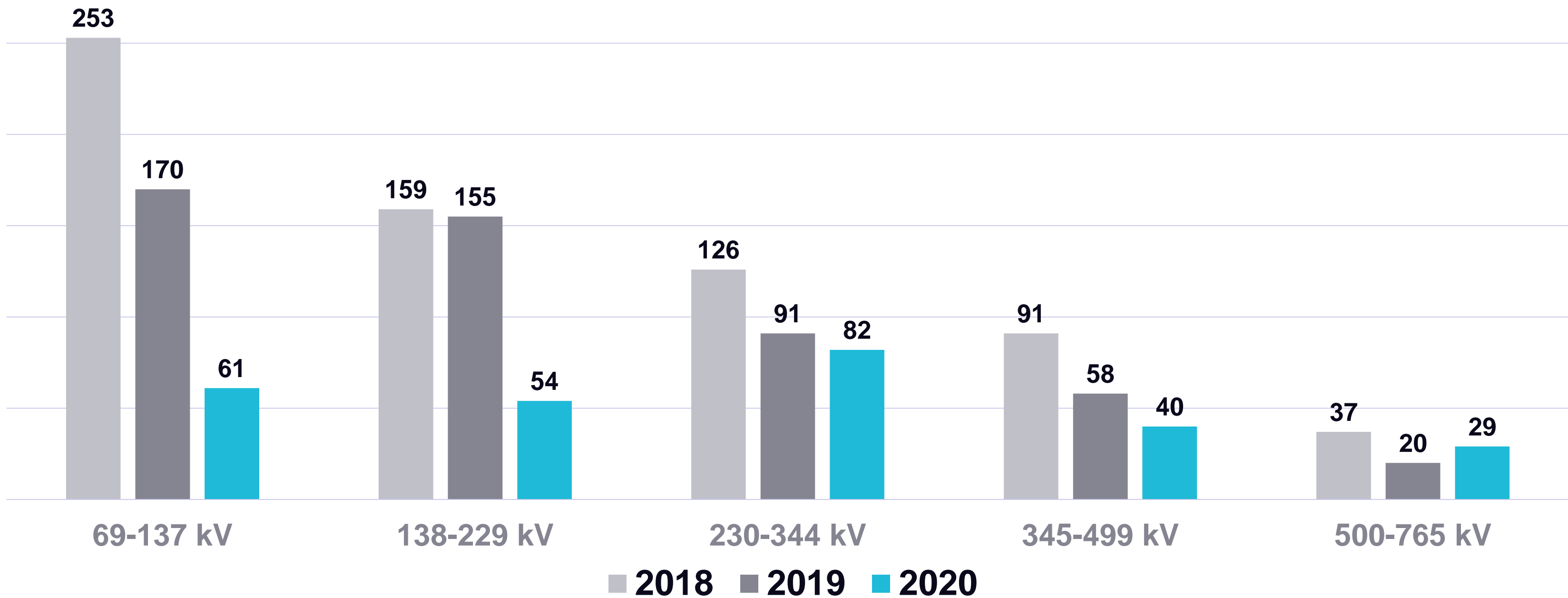
Operating Substations by Owner



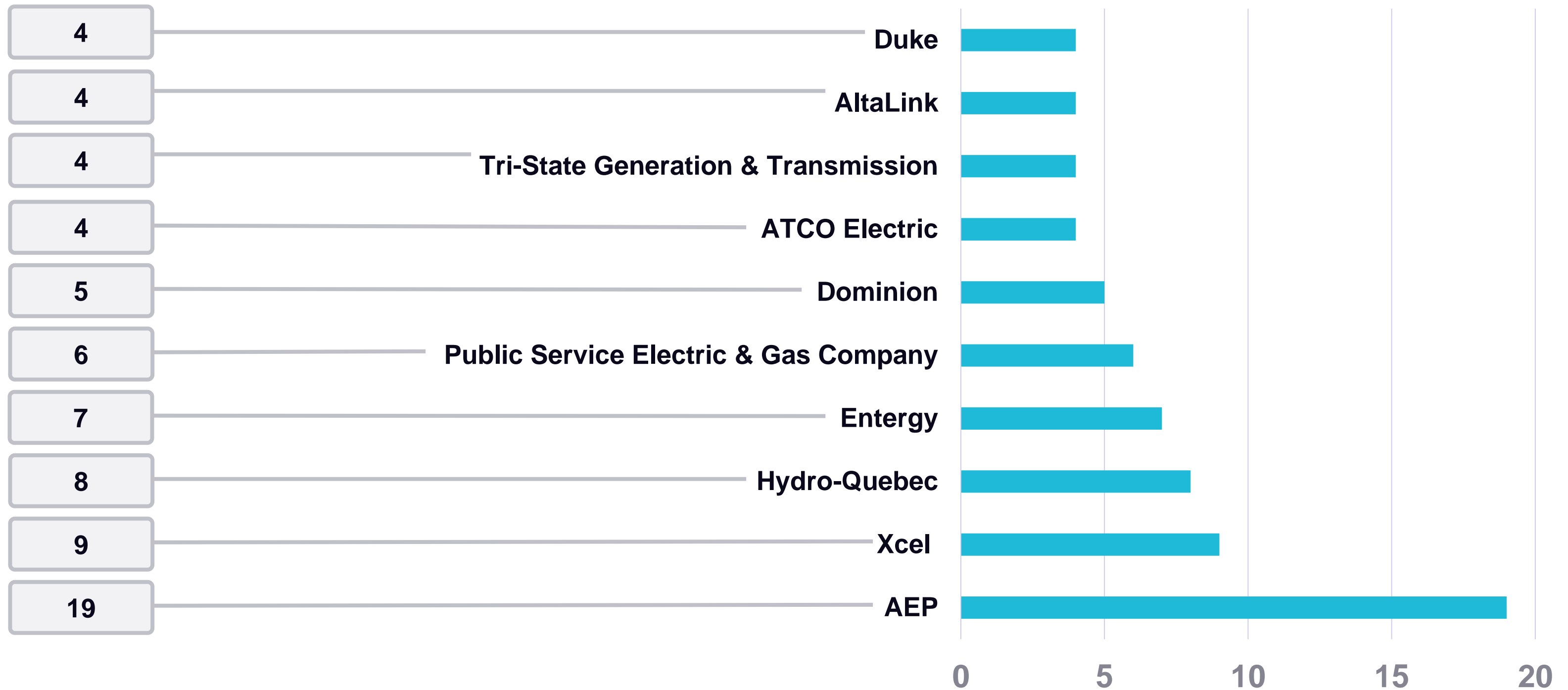
2018 Operating Substation Projects by State



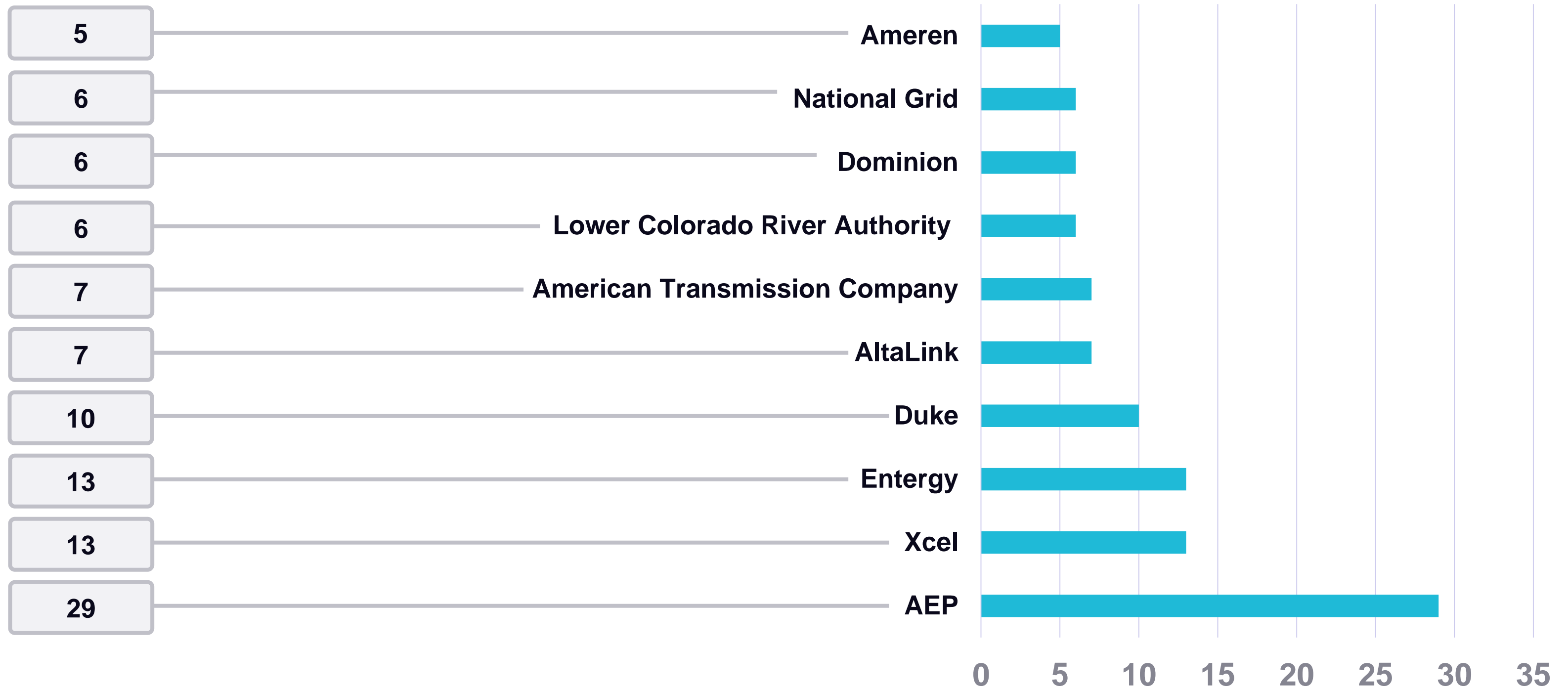
2018-2020 Operating Substation Projects by Size



2018 Top Substations Developers by Operating Projects



2019-2020 Top Substation Developers by Operating Projects



Contacts



address

1623 Blake St.
Denver, CO, 80202
Phone: 720.235.1296

online

www.energyacuity.com
crmteam@energyacuity.com