**KPI of Electric Distribution Events**

**Recommendation analysis required:**

1. **Are there any trends in power outages over time?**
2. **Which event types are the most significant?**
3. **Are there any special events that skew the data?**
4. **What is the most common downtime for a power outage?**

**Analysis of Power Outages Over Time**

1. **KPI: Year-over-year (YoY) increase or decrease in power outages.**

**Impact of Outages on Communities**

1. **KPI: Average number of people affected per outage.**
2. **KPI: Total demand loss (in MW) during outages.**

### ****Event Type Significance****

1. **KPI: Outages by event type.**
2. **KPI: Percentage of outages with downtime exceeding a threshold.**
3. **Note: normalize event type to take into consideration the outliers that may skew data.**

**Downtime and Duration Analysis**

1. **KPI: Average downtime per outage.**
2. **KPI: Calculate the mode for downtime and normalize the event type into groups.**

**The most impact on states**

1. **KPI: most and fewer states have been affected by an outage of power.**