

Strategic Investments for Long-Term Reliability

Sustainability, City Light, Arts & Culture Committee

December 5, 2025



Seattle City Light

WE POWER SEATTLE

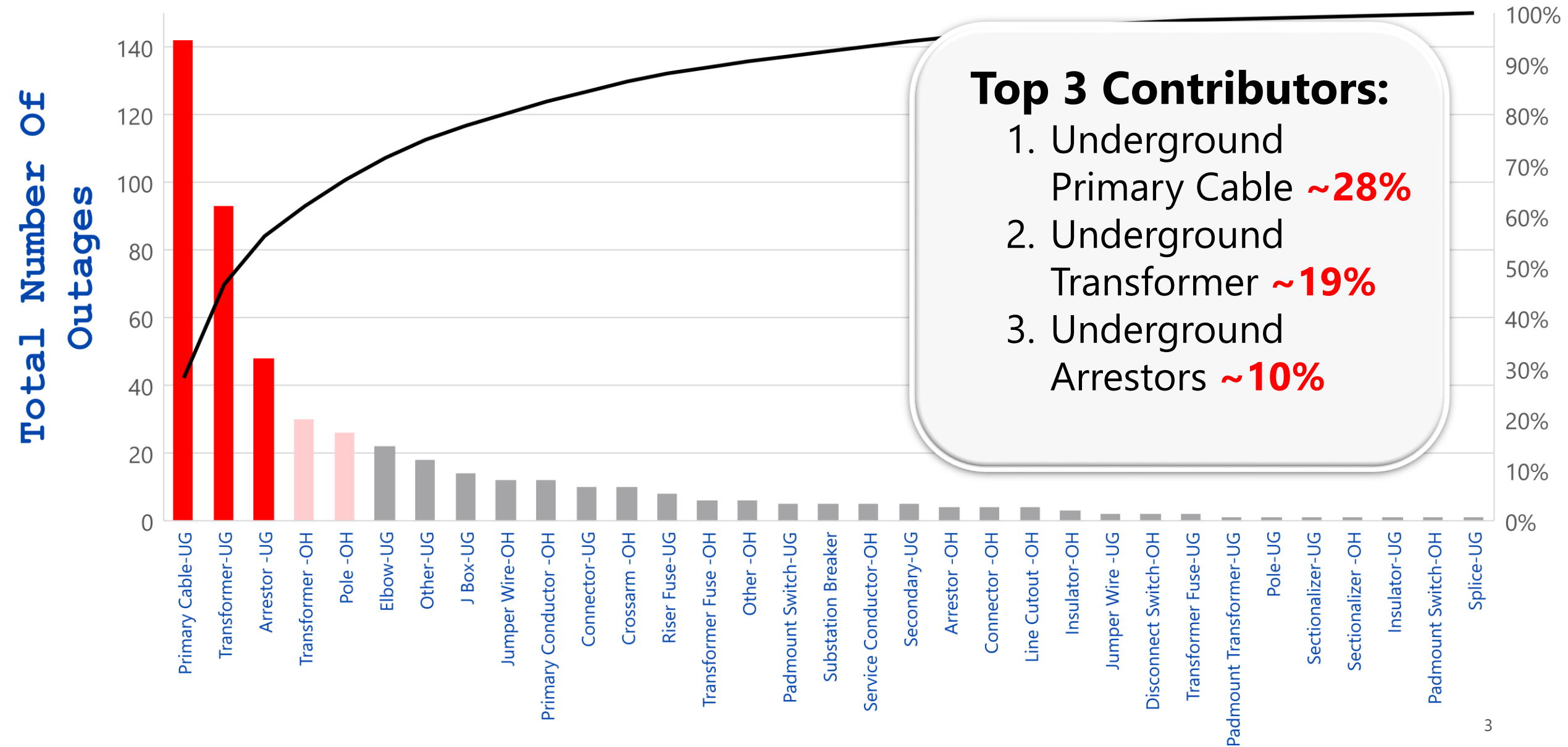
A CONVENTIONAL POWER SYSTEM

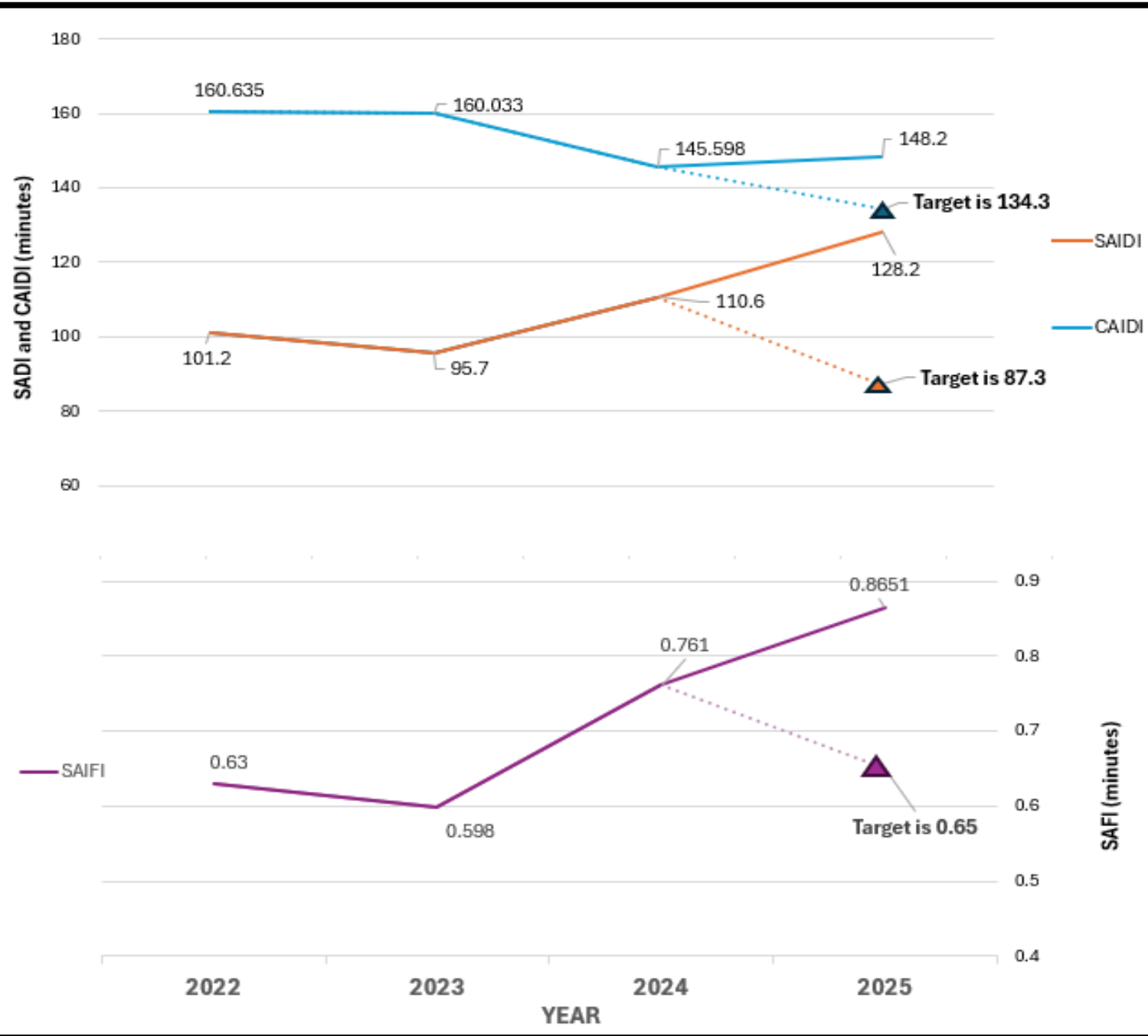


- ① Power is generated from dam/powerhouse /nuclear/solar
- ② Substation transformer steps up voltage for transmission
- ③ Transmission lines carry electricity long distances
- ④ Neighborhood substation transformer steps down voltage

- ⑤ Distribution lines carry electricity to residents
- ⑥ Transformers on poles step down electricity before entering residence
- ⑦ Service line for resident

Outage Causing Failed Equipment March 2024 - February 2025

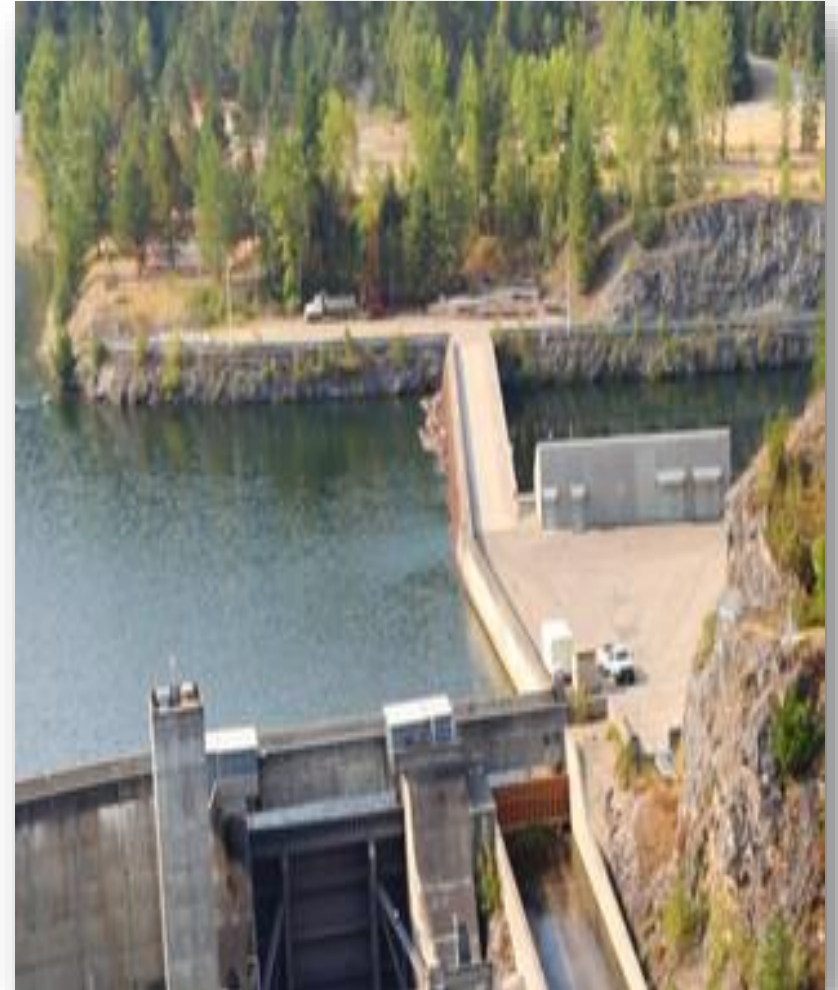




SEATTLE CITY LIGHT RELIABILITY METRICS 2022-2025

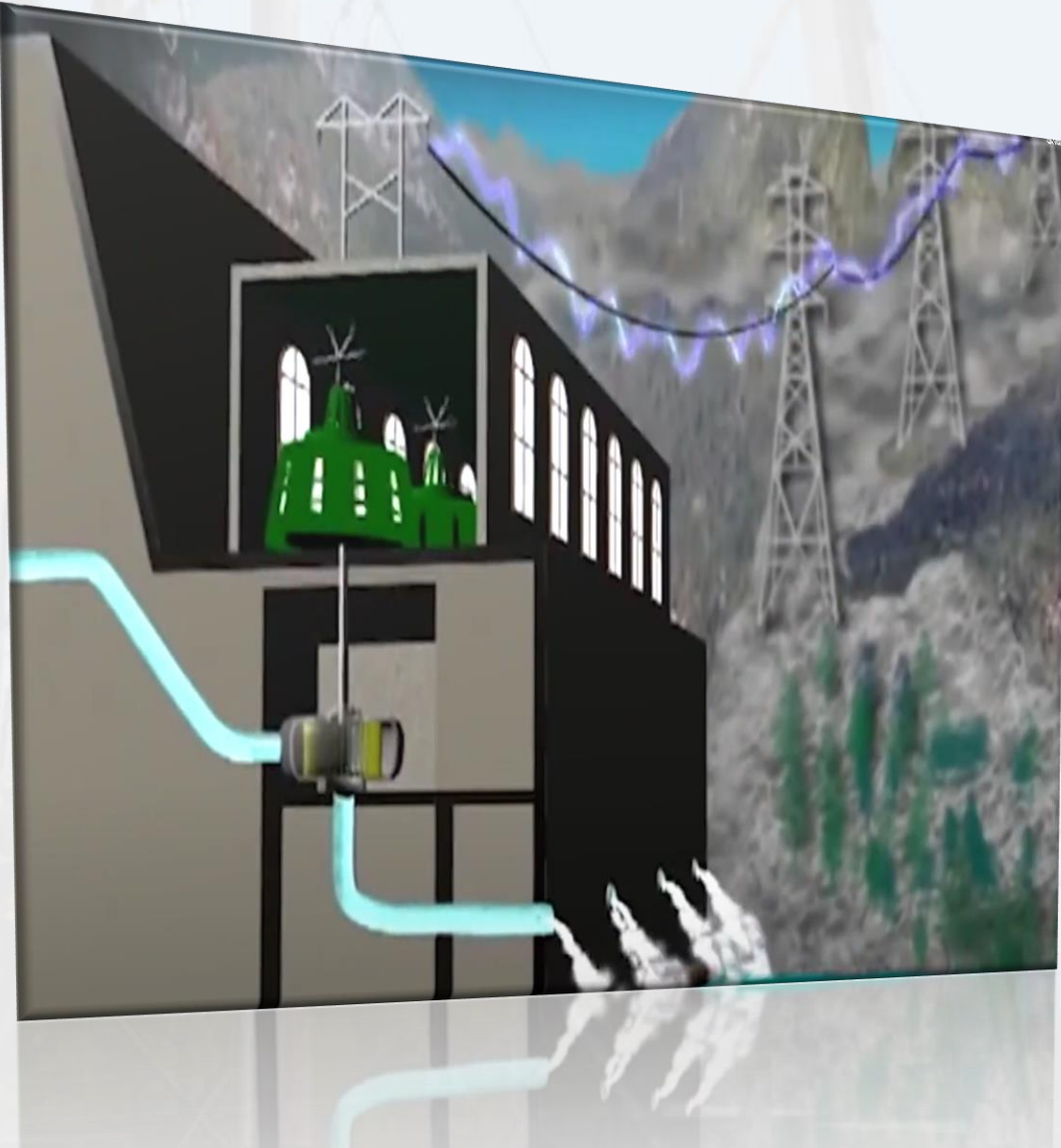
GENERATION INVESTMENTS

- Skagit Relicensing Requirements
- Boundary Forebay Bridge Replacement
- Gorge Dam Superstructure
- Gorge Powerhouse Hydroelectric Unit Rebuilds
- Cedar Falls Hydro System Rebuild
- Other



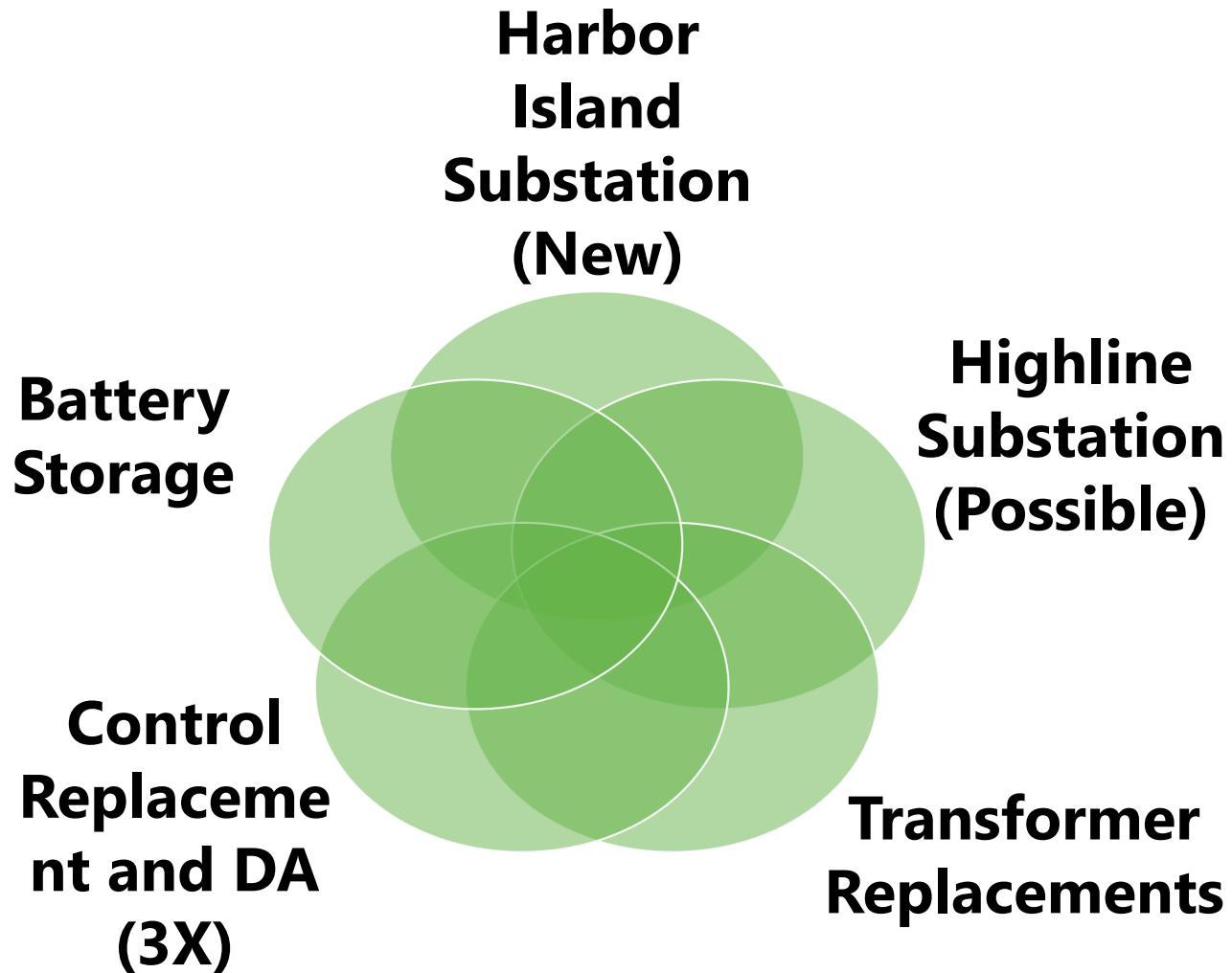
Boundary Forebay Bridge

TRANSMISSION INVESTMENTS REQUIRED



- Wildfire Mitigation
- Aging Infrastructure
- Capacity Upgrades
- Direct-to-Customer Large Loads (Centrio, Data Centers, UW)

SUBSTATION INVESTMENTS



DISTRIBUTION INVESTMENTS

**Increasing Load in
Neighborhoods and
Commercial Districts
Alike**



Direct-Buried
Underground Cable
Replacement

**Underground
Transformers &
Overloaded
Transformers**



Pole Replacement
Program

**Building Performance
Standards**

Battery Storage
Program to Help at
Peak Times/Outages

STRATEGIC INVESTMENTS BALANCING ACT

External Projects

- Data Centers
- Sound Transit/WSDOT/ Port of Seattle
- King County Metro Bus Electrification
- Centrio / UW

Internal Impacts

- Resources
- Cost Escalations
- Material Timelines



THANK YOU



Seattle City Light