

Cleveland Public Power

INVESTING IN THE FUTURE OF CLEVELAND

OCTOBER 24, 2024



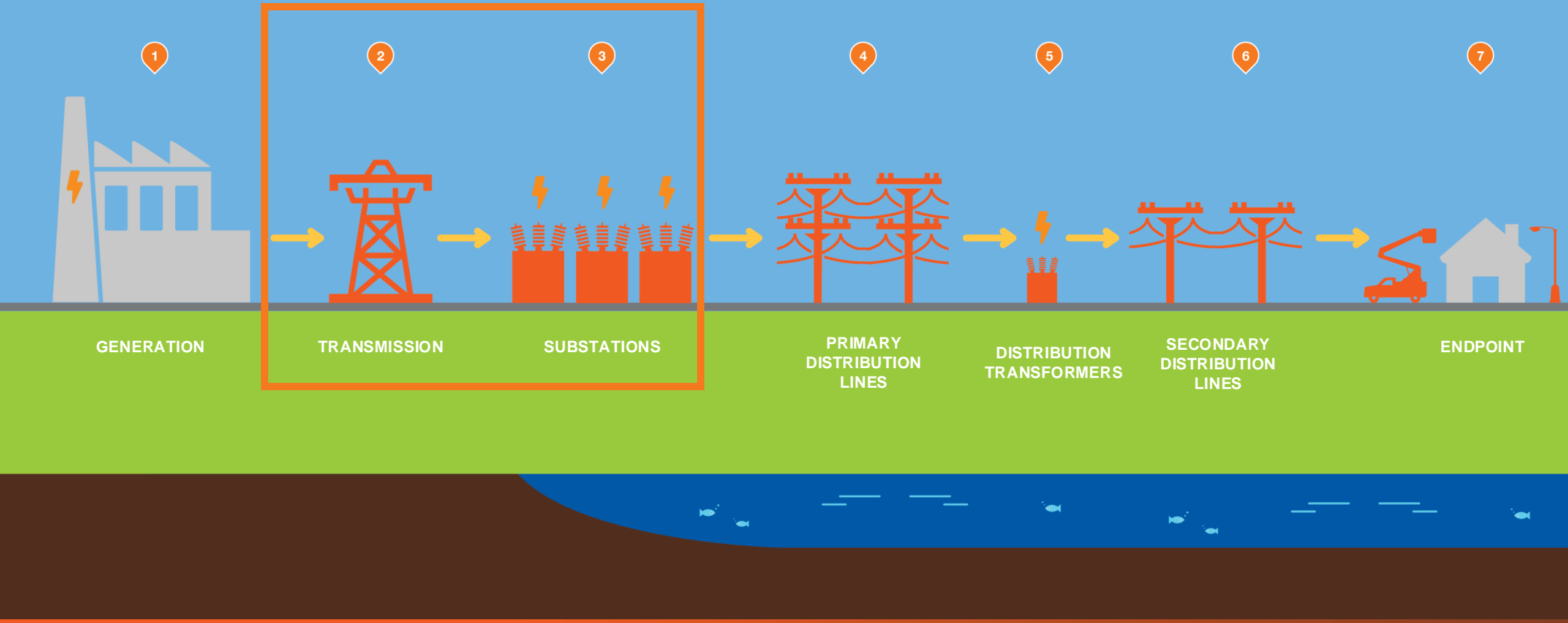
Cleveland**Public**Power
Count on it



AGENDA

- Capital Projects 2020 – 2024
 - Transmission and Substation
 - Distribution
 - Endpoint Delivery
- System Wide Improvements
- Future Investments
- Customer Growth

DIAGRAM OF POWER DELIVERY



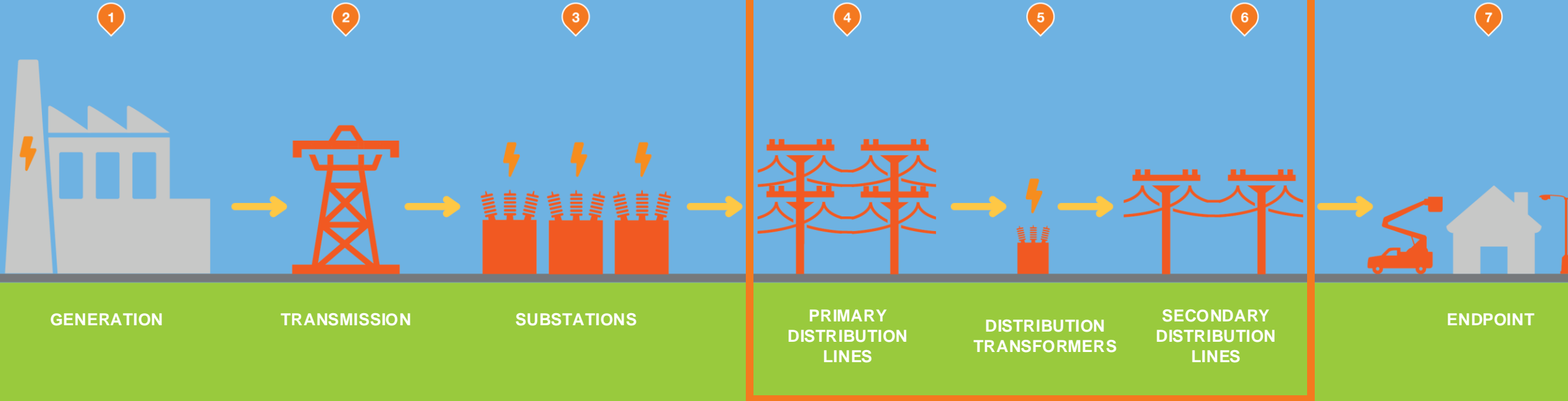
TRANSMISSION AND SUBSTATION

\$10.8M

- **Hayden Substation**
 - Neighborhood substation transformer replacement and site improvements following weather damage
- **West 41st Transformer**
 - Installation of new 138kV autotransformer at a key transmission substation, improving redundancy and reliability
- **Other Improvements**
 - Substation Remote Terminal Units (RTUs) and Communications: replace and upgrade hardware and communications paths at transmission substations
 - General maintenance



DIAGRAM OF POWER DELIVERY



DISTRIBUTION

\$38.6M

- **Overhead**

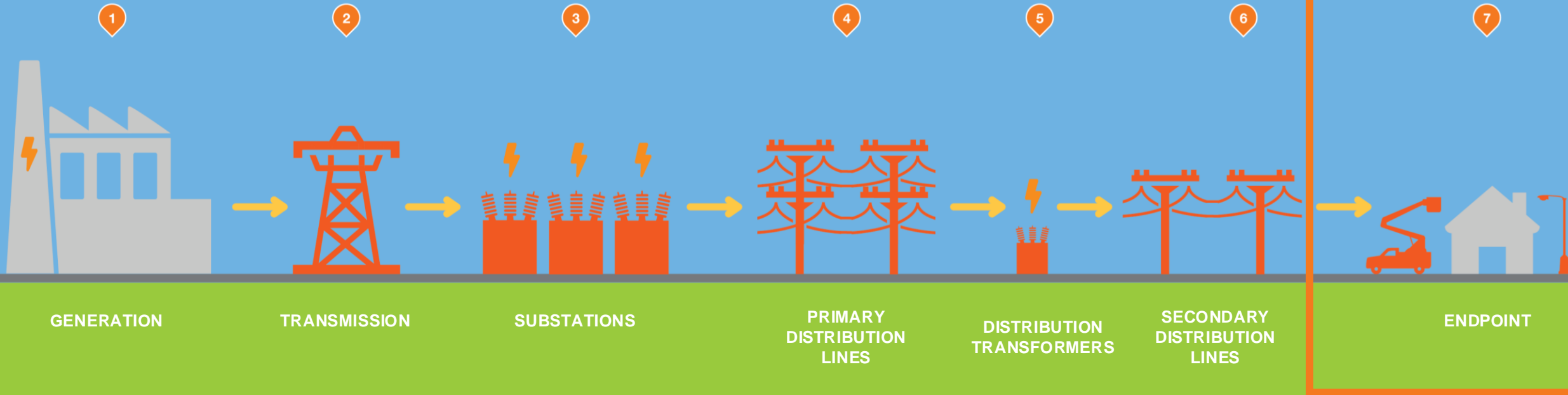
- Wires
- Poles
- Transformers

- **Underground**

- Cable
- Transformers
- Manholes & Vaults



DIAGRAM OF POWER DELIVERY



ENDPOINT DELIVERY

\$11.1M

- **LED Streetlights**
 - More than 60,000 streetlights replaced, nearly 5,000 pending replacement following redesign and vendor construction
- **Meters**
 - Annual meter system upgrades
- **Vehicles & Mobile Equipment**
 - Annual vehicle refresh and replacements, including line trucks, digger derricks, dump trucks, cable carts, etc.

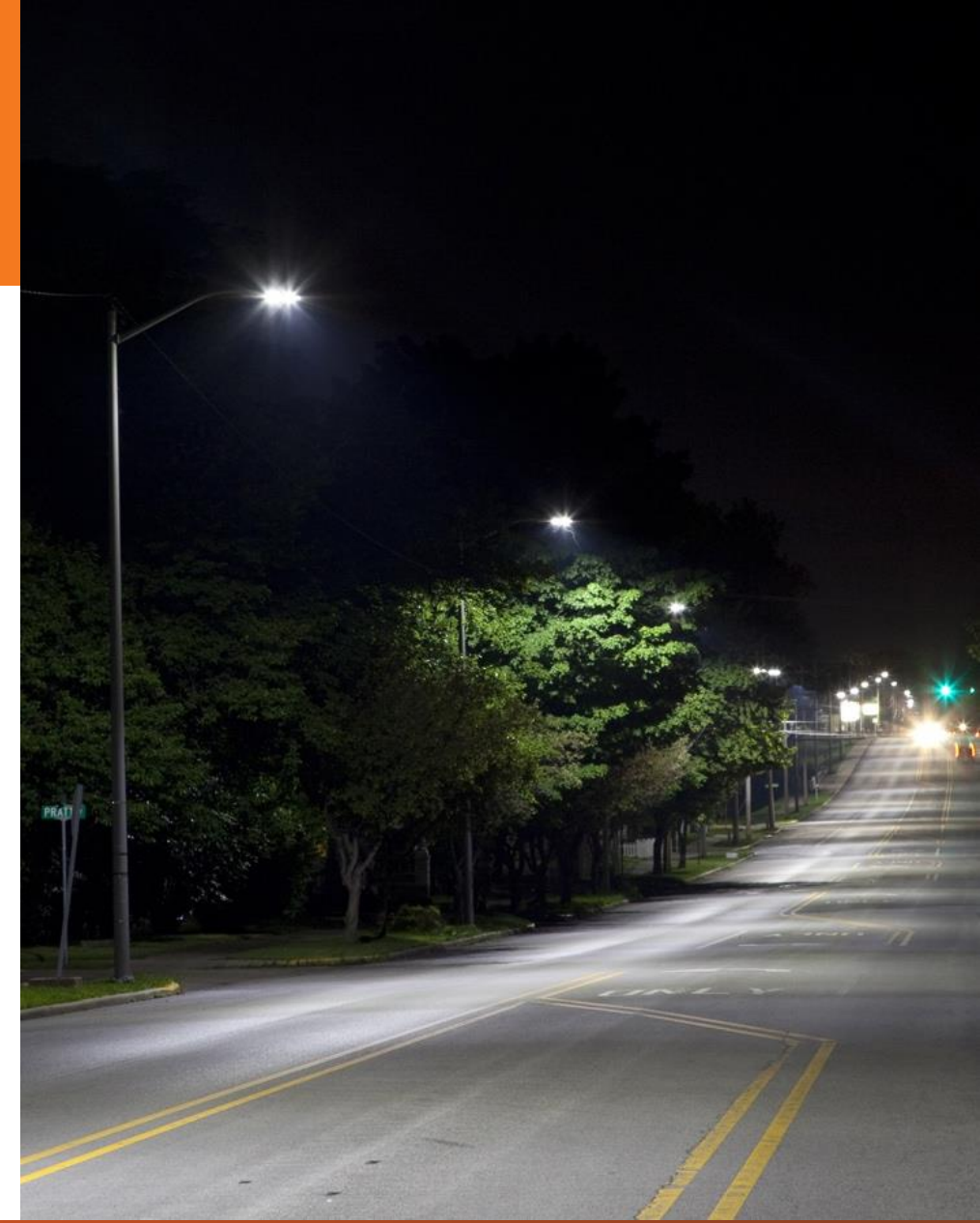
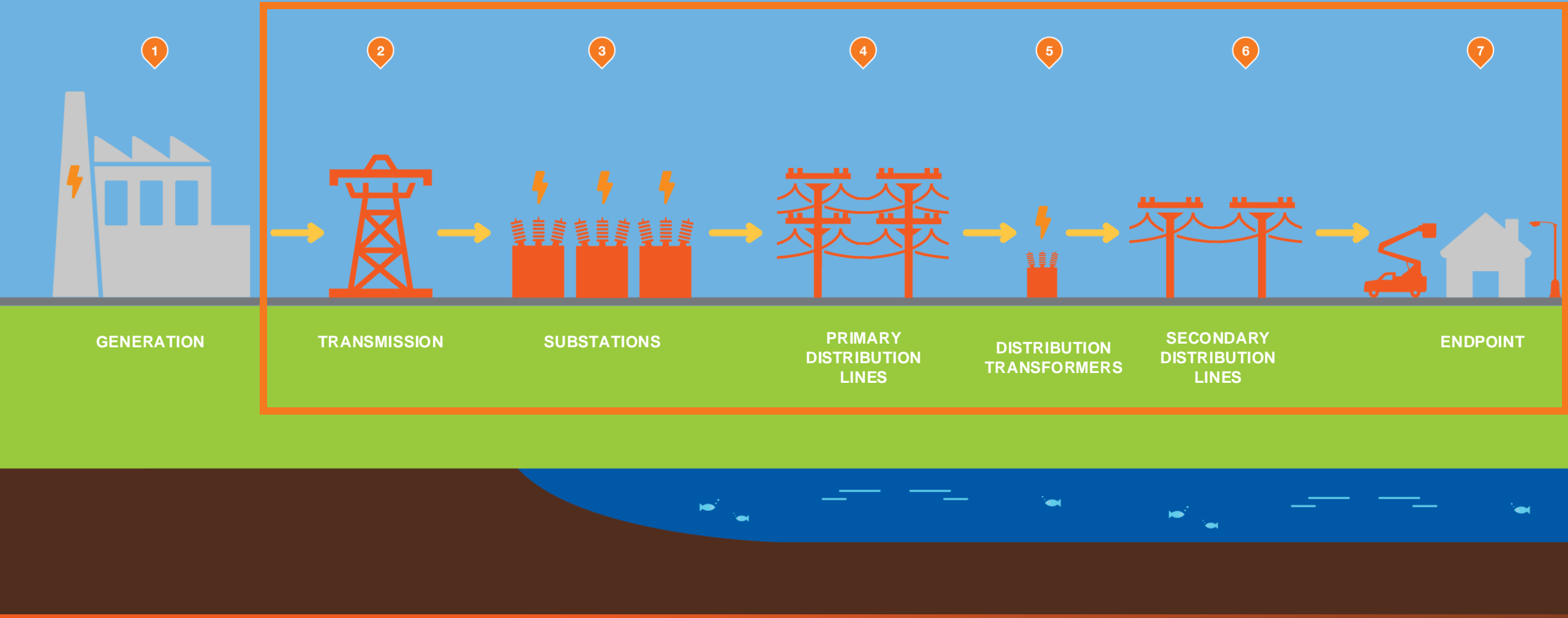


DIAGRAM OF POWER DELIVERY



SYSTEM WIDE IMPROVEMENTS

\$3.5M

- **Geographic Information System (GIS)**
 - Upgrade and integrate software to track, analyze, and display location specific data for CPP electric infrastructure
- **Cityworks**
 - GIS based asset and work order and maintenance management system
- **Transmission Supervisory Control And Data Acquisition (SCADA)**
 - Central system to remotely collect, analyze, and respond to status and events on the electric system. Incorporates substation Remote Terminal Units (RTUs) and communications paths.



FUTURE INVESTMENTS

- **Distribution Supervisory Control and Data Acquisition (SCADA)**
 - Central system to remotely collect, analyze, and respond to status and events on the distribution electric system, including reclosers and switches
- **Electric Distribution System Sectionalizing**
 - Increased deployment of reclosers, switches, and grid networking that is coordinated through SCADA
- **Advanced Meter Infrastructure**
 - Next gen meters providing live status and reads, including for power interruptions and restoration. Enables improved outage management and communication.
- **Substation Renewal**
 - Preventive maintenance and upgrades to ensure system reliability
- **Solar Generation Grants**
 - Local community owned generation to reduce power supply costs and deliver clean energy



CUSTOMER GROWTH

- **Economic Development Partnership**
 - Collaborating on new opportunities and current needs
- **Sales Outreach**
 - Residents, businesses
 - Building relationships with Local Developers
- **Solar Generation Grants**
 - New distribution infrastructure, reduce costs, expand renewable portfolio
- **Reliability Improvements**
 - Essential for retention and recruitment





SUMMARY

- CPP provides safe, reliable, and affordable electricity as the trusted energy supply partner to the City of Cleveland.
- CPP has strategically completed projects to improve the customer experience through increased system redundancy and reliability.
- Future improvements will continue to improve customer reliability and encourage growth in existing service areas, while also positioning CPP for future expansion.