

# **EV Charging Station Fees and Usage Restrictions**

Motion of the City of Winter Park  
Utilities Advisory Board (UAB)

August 28, 2024



# **Agenda**

WP Public Facing EV  
Charging Stations  
Fees and Usage  
Restrictions

- Overview
- Background
- Analysis
- Results
- Recommendation
- Questions



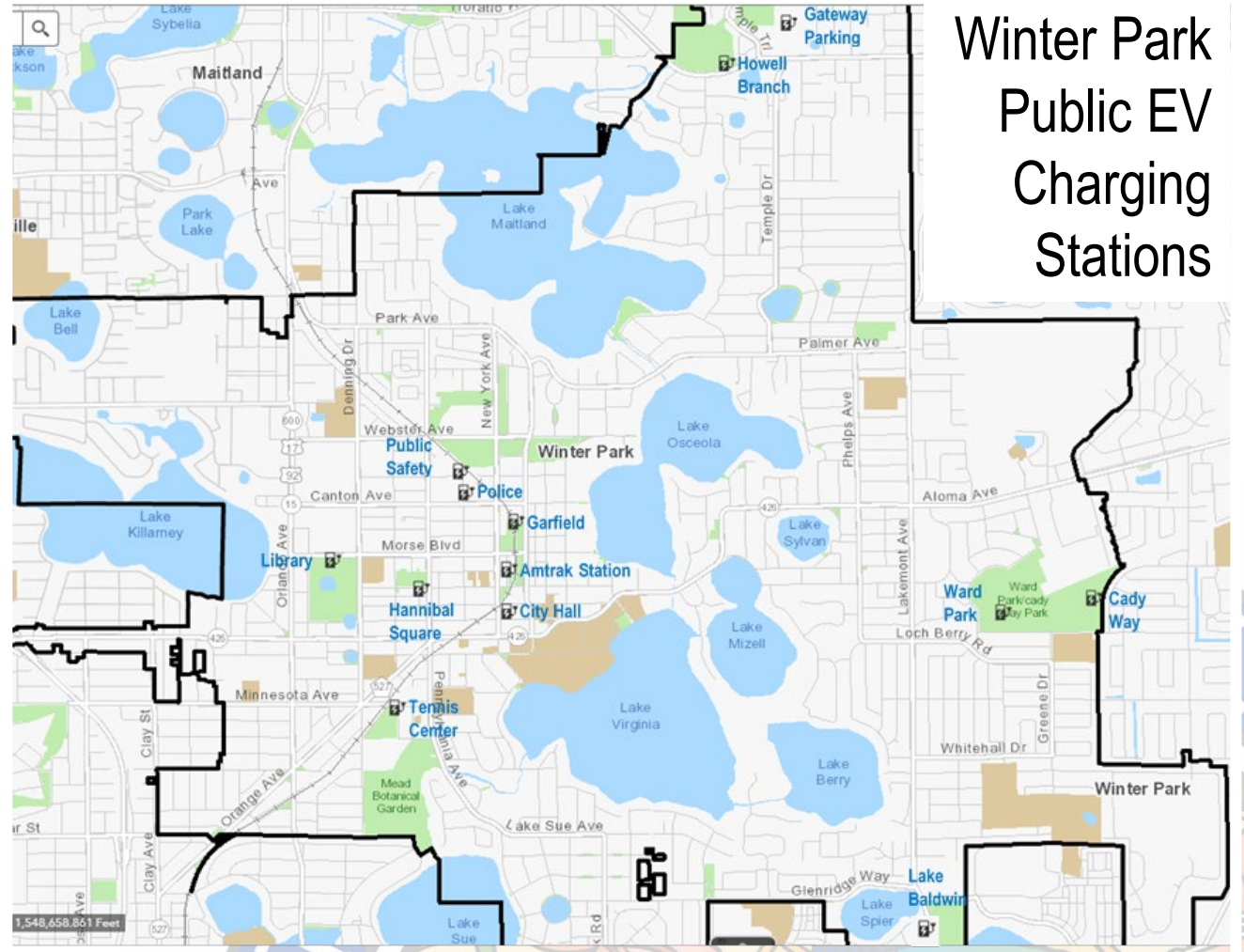
# Overview

- City of Winter Park Public-Facing Electric Vehicle (EV) Charging Stations are Free
  - No Charging Fee
  - No Parking Fee
- Source of Escalating Complaints
- Utilities Advisory Board (UAB) Motion Addresses Issues through Station Fees and Usage Restrictions



# Background

- Keep Winter Park Beautiful & Sustainable (KWPBS) Initiative
  - Six Installed in 2011
  - Currently 13 Total
  - 2023 Usage: 152 MWh
- Lack of Fees Resulting in Over Use
- Response
  - KWPBS Recommended Fees
  - UAB Tasked with Investigation



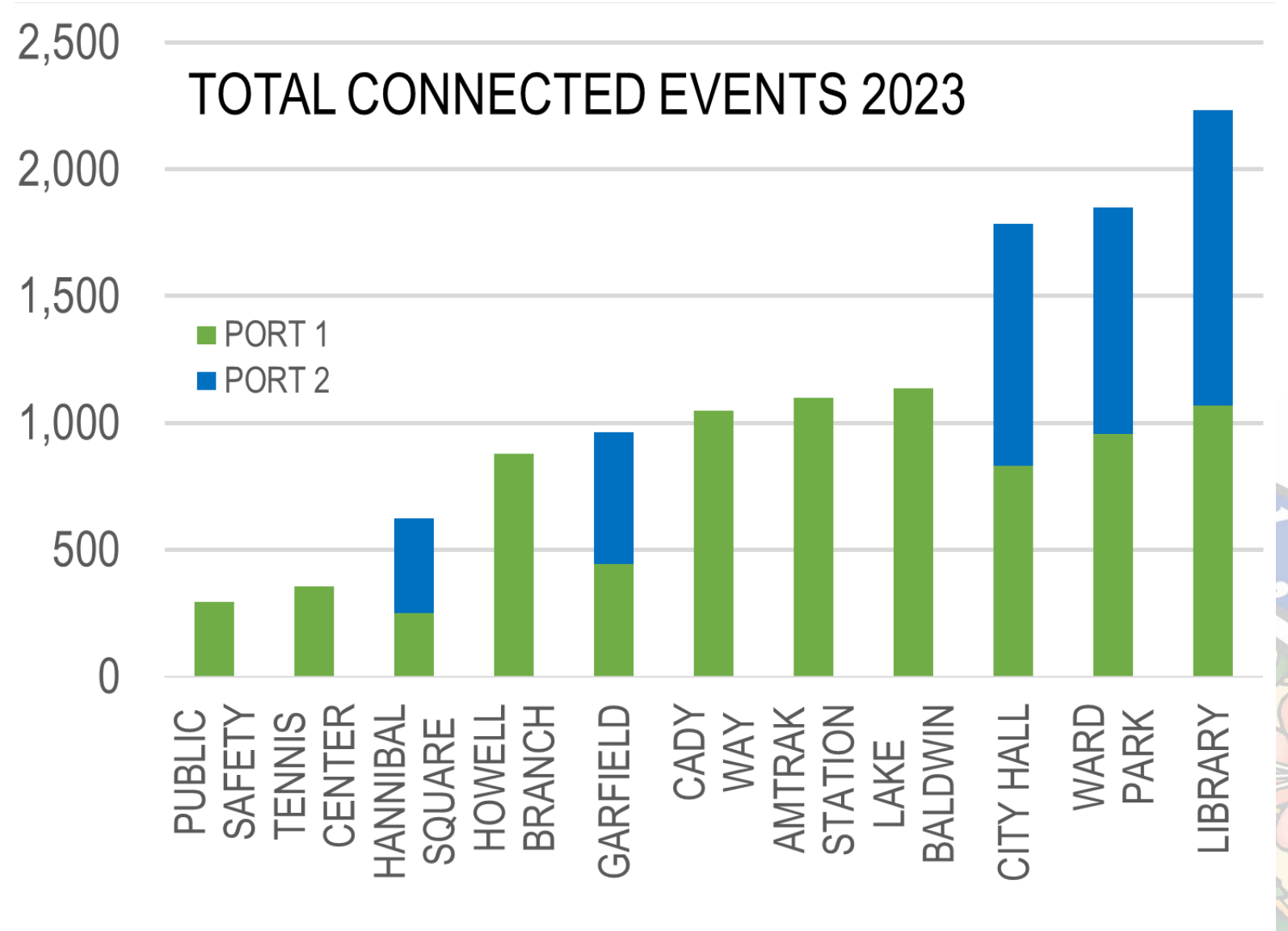
# Investigation

- UAB Directed Electric Department Staff to Recommend EV Charging Rate
- Two-part Analysis
  - Perception v. Reality
    - Is the Problem Real?
    - Is the Problem Quantifiable?
  - Develop a Recommended Solution
- Approach
  - Analyzed Chargepoint Data for Calendar Year 2023
  - Coordinated w/ Other City Departments



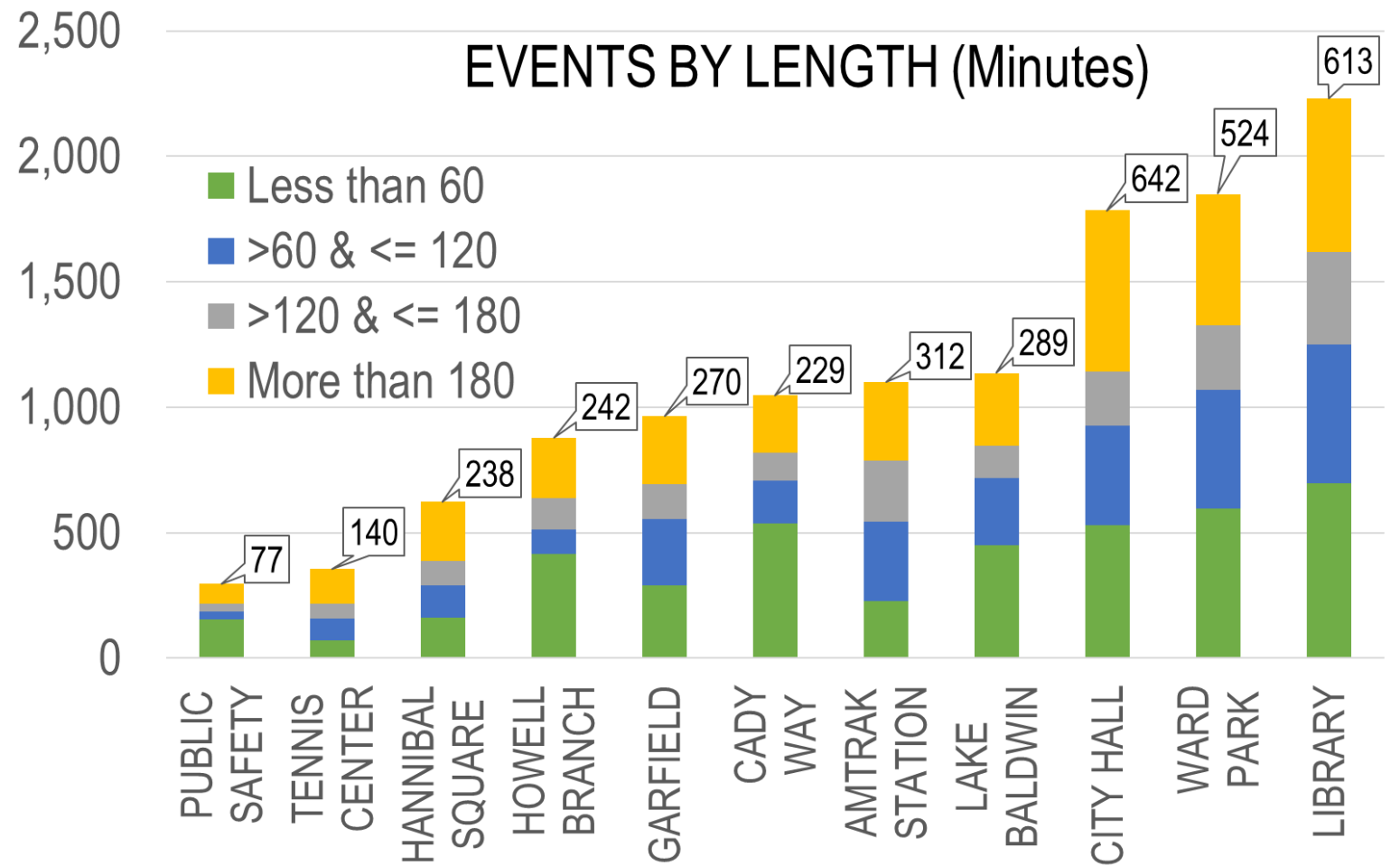
# Station Activity

- 12,265 Total Connected Events
- 145,000 kWh Consumed
- 1,724 Unique Users



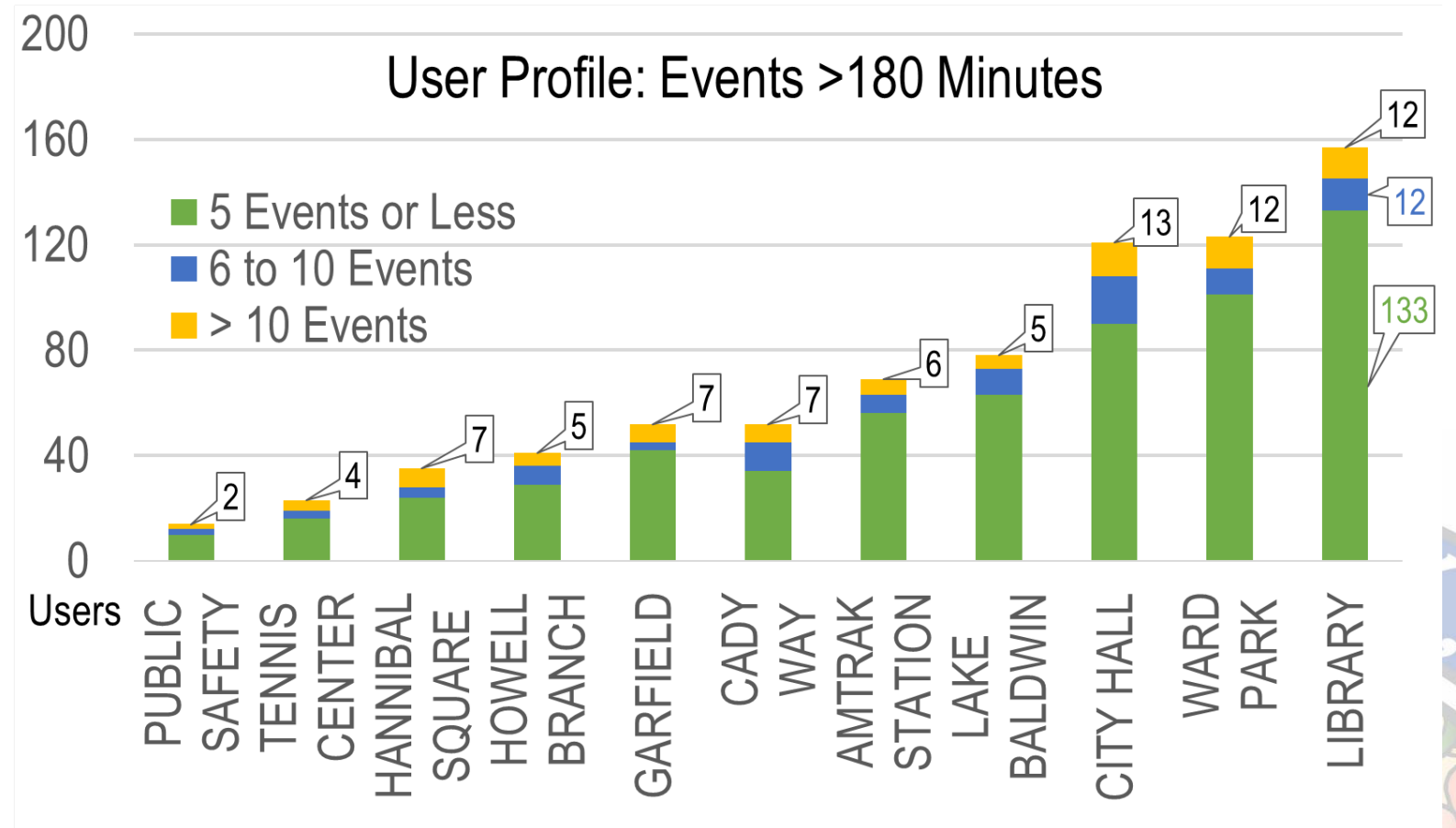
# Duration

- 12,265 Connected Events
- 29% or 3,600 Lasted More than 3 Hours



# Frequency

- 3,600 Events Greater than 3 Hours
- “Super Users”
  - More than 10 Connected Events of More than 3 Hours
  - 3% of Users

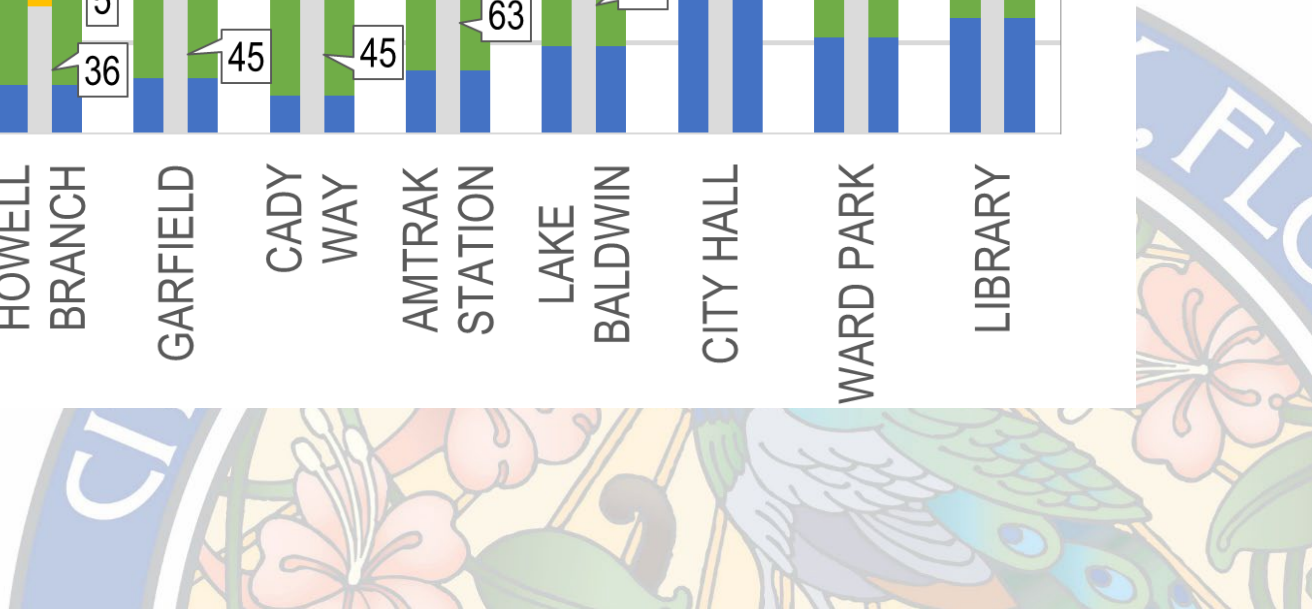
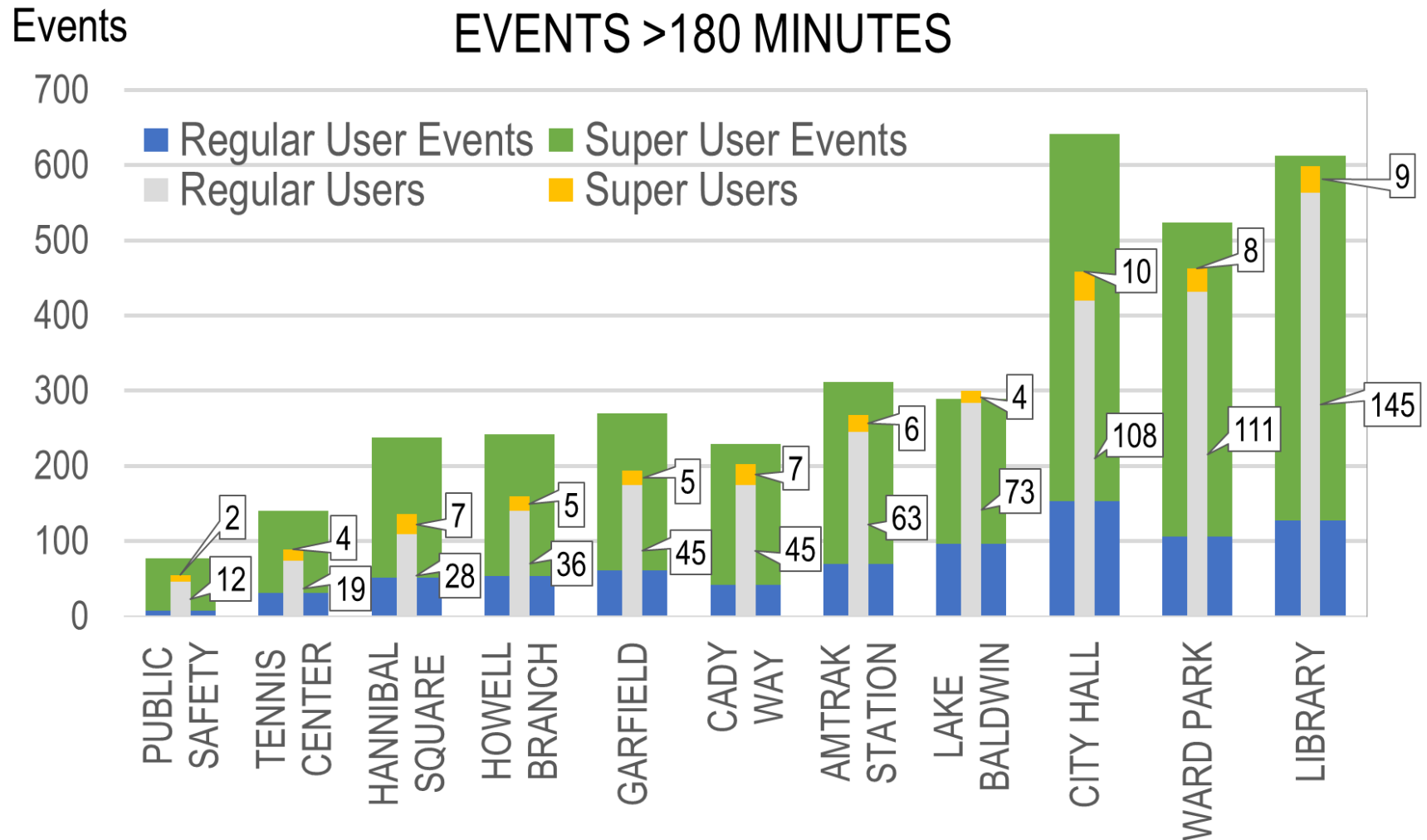




# Super v. Regular Users

In Three-plus-hour Events, Super Users Comprise:

- 9% of Users
- 78% of Events

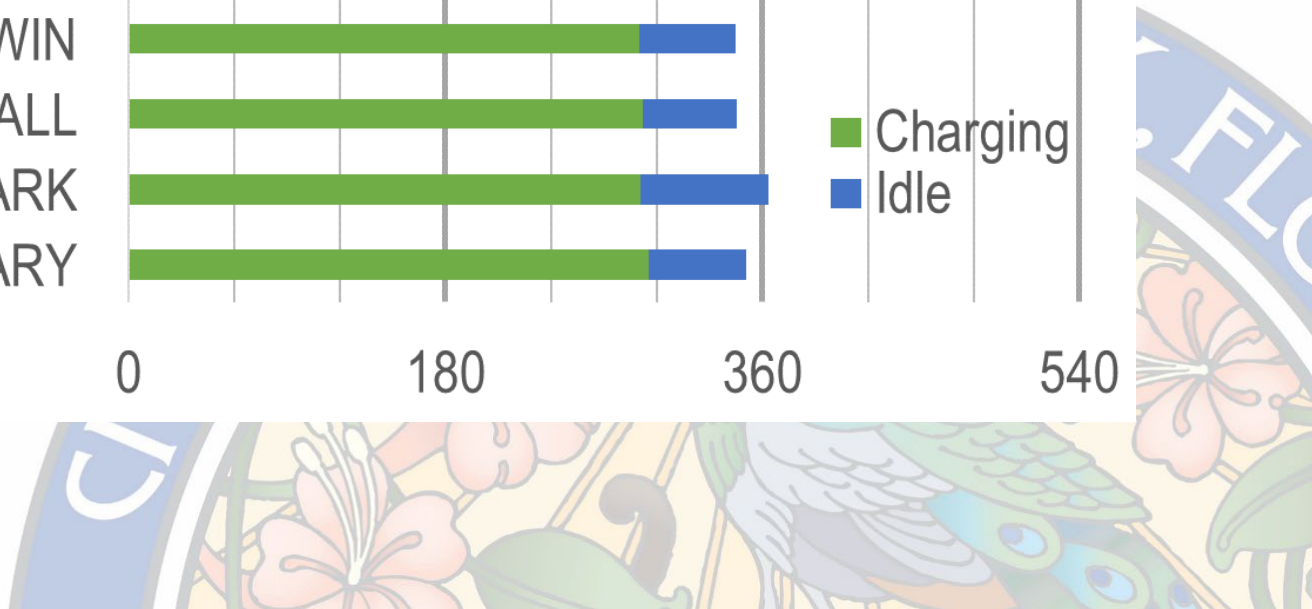
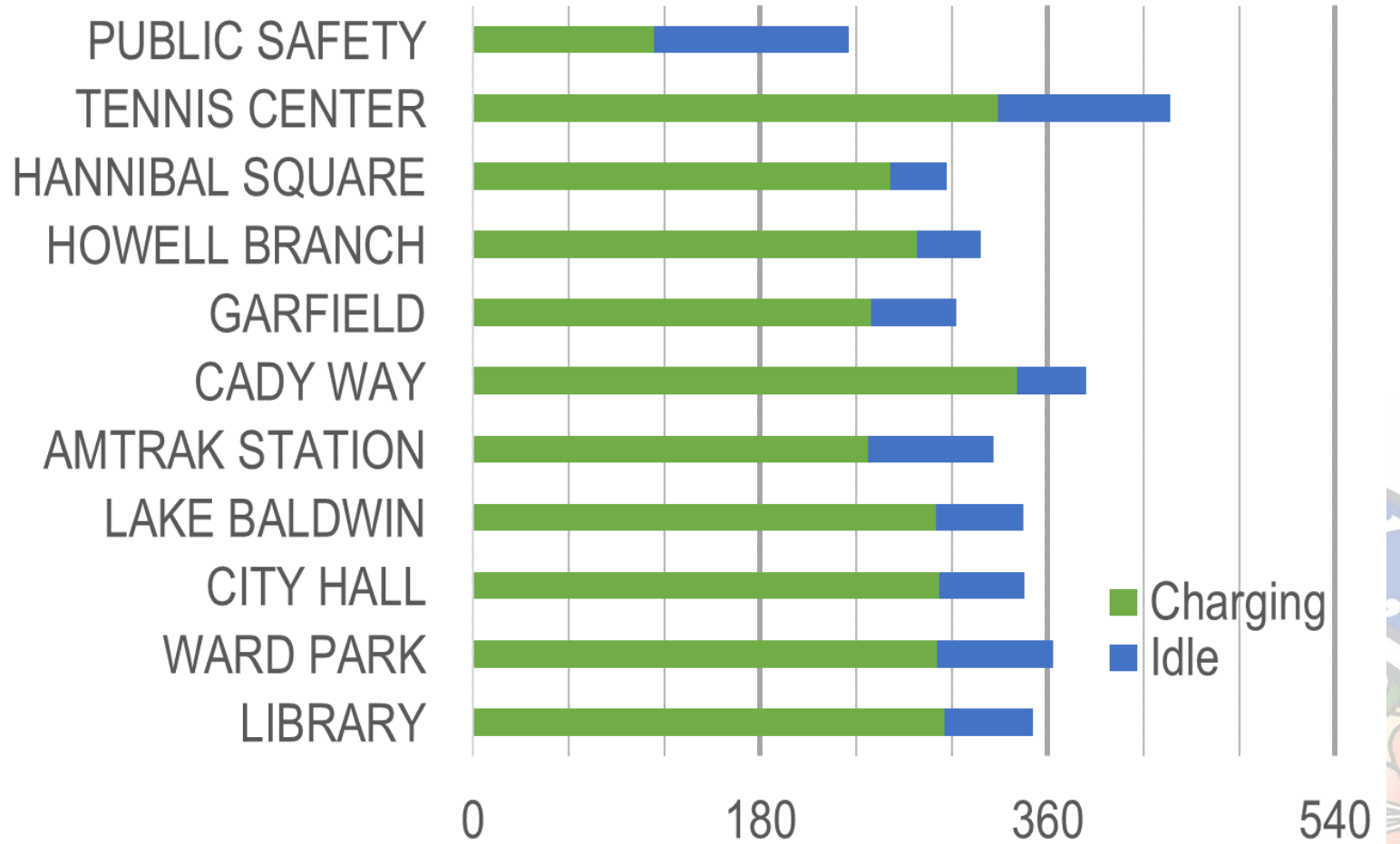


# Upshot

Over Use is Occurring

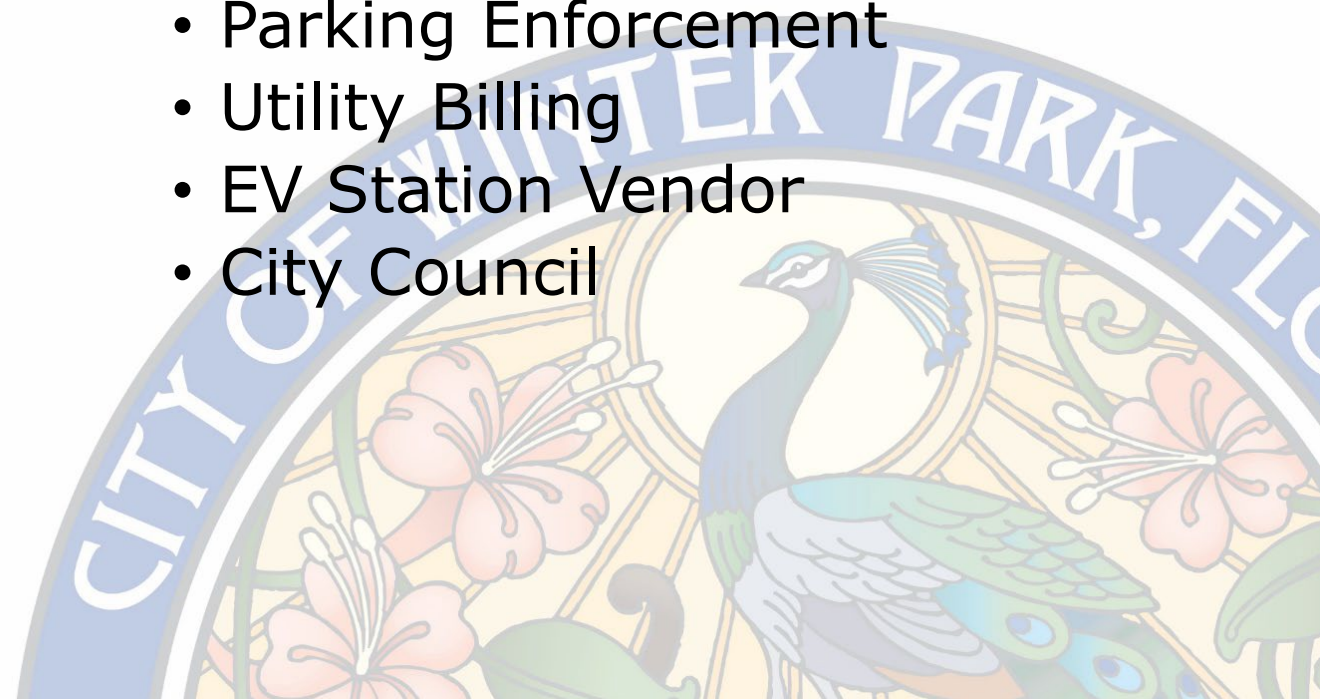
- Most Three-plus-hour Events Last Nearly Five Hours
- Fees Should Impact Behavior

## Activity for Events > 180 Minutes



# Additional Considerations

- EV Charging Stations Provide Two Services
  - Charging
  - Parking
- Investigation Uncovered Behaviors that Usage Fees Would not Address
  - Non EVs Parked at Station
  - Disconnected EVs Parked at Station
- Multiple Stakeholders Needed for Solution
  - Electric Department
  - Sustainability
  - Parking Enforcement
  - Utility Billing
  - EV Station Vendor
  - City Council



# Proposed Solution

Utilities Advisory Board Motion  
Adopted March 26, 2024

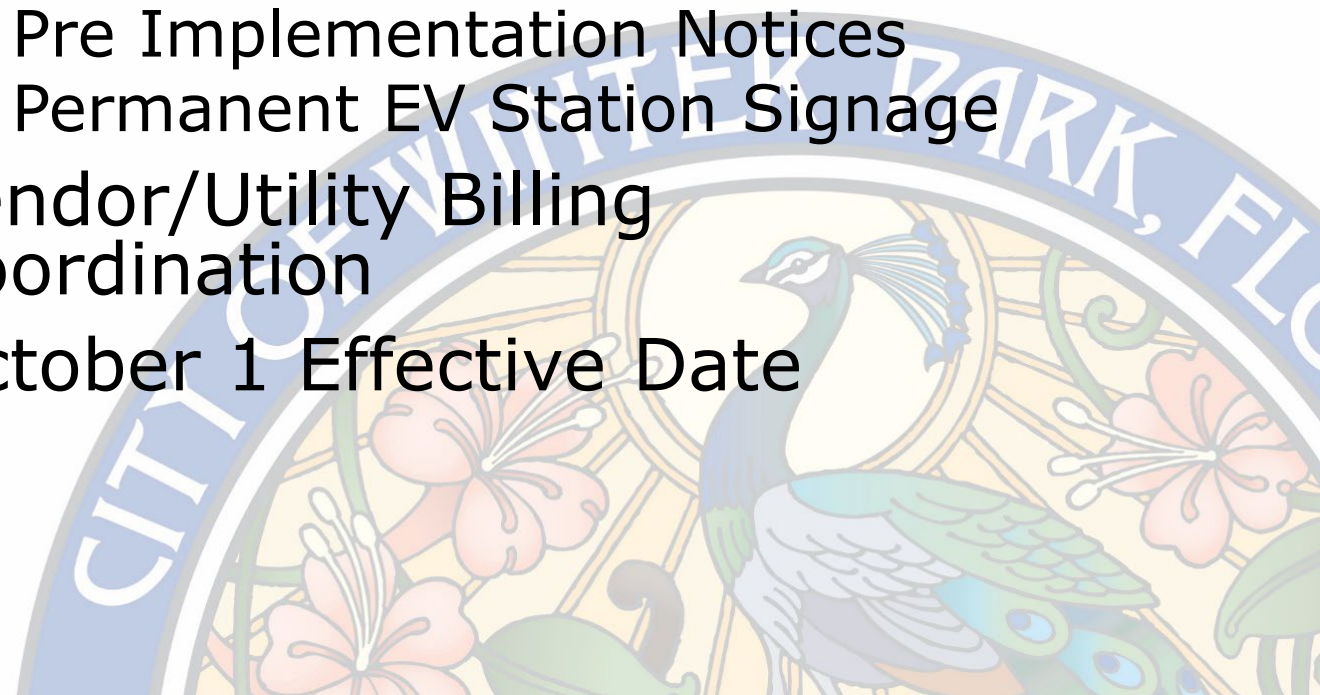
- Public-facing EV Charging Station Connection Rate
  - \$1.00 per 20 Minutes Connected Time
  - Additional \$10.00 per Hour After 3 Hours Connected Time
- Parking Restrictions
  - 3-Hour Maximum Limit
  - No Un-connected Parking
  - No Overnight Parking



# Next Steps

## Implementation Plan Upon Adoption

- Education & Outreach Effort
  - Internal & External
  - Coordinated Campaign
    - Website
    - Utility Bills
    - Board & Committee Presentations
    - City Staff Sessions
- Signage
  - Pre Implementation Notices
  - Permanent EV Station Signage
- Vendor/Utility Billing Coordination
- October 1 Effective Date



# Options

City Council Action

- Adopt UAB Motion
- Revise UAB Motion
- Maintain Status Quo



# Questions

EV Charging Station Fees and Usage Restrictions

