



E-Bike Incident & Personal Electric Vehicles (PEVs) on TTC

Board Presentation

January 25, 2024



Synopsis



Date: December 31, 2023, at 2:56 p.m.

Events:

- Smoke emits from E-Bike battery before bursting into flames.
- Train doors open six seconds later, and patrons evacuate.
- Bike components catch fire, filling train with thick smoke.
- TFS responds to incident 4 minutes after receiving the 9-1-1 call.
- TPS transports three people to hospital: two patrons and the TTC operator
- The train is removed from service to Davisville Yard for investigation.

Actions Taken



- ✓ Safety Incident Snapshot sent internally
- ✓ TTC Board and Union notified
- ✓ TTC shared the onboard video of the incident with TFS
- ✓ Joint Labour Management Committee Meeting held
- ✓ Preliminary Jurisdictional Review by TTC
- ✓ TFS hosted meetings with stakeholders for information sharing
- ✓ TFS investigation remains in progress

Micro-Mobility & TTC

E-Scooter



E-Cargo Pedal Assisted Bikes



40-110kg

E-Bikes



>40kg

- Banned for use and storage in CoT (Municipal Codes 950, 896, 608)

- No regulation
- Prohibited during peak hours Mon-Fri (TTC Bylaw #1)
- Not permitted on bus bike rack due to weight

Preliminary Jurisdictional Review



E-Bikes Allowed

- Bike and large object policies extend to e-bikes or;
- Agencies follow local jurisdictions

E-Bikes Allowed

Restrictions on:

- Charging
- Use on Property
- Peak Hours
- Battery Compliance

E-Bikes Banned

- Reviewed policies and practices related to PEVs in 22 transit agencies worldwide and additional Transit Associations (UITP, CUTA, APTA, CoMET).
- No consistent approach to E-Bike rules and conveyance amongst international partners.

Next Steps

1

Regulation Reinforcement

- Bike/E-Bike Policy Communications
- Information Campaign
- Joint advocacy with TFS for regulation of Lithium-ion Batteries
- Policy and Bylaw #1 update

2

Exploring Li/Ion Technology

- Prevention
- Response

3

Best Practices and Policy Review

- Outreach to transit agencies
- Industry experts and response personnel
- CoT Interdivisional Working Group on Micromobility & Lithium/Ion Battery Working Group

