



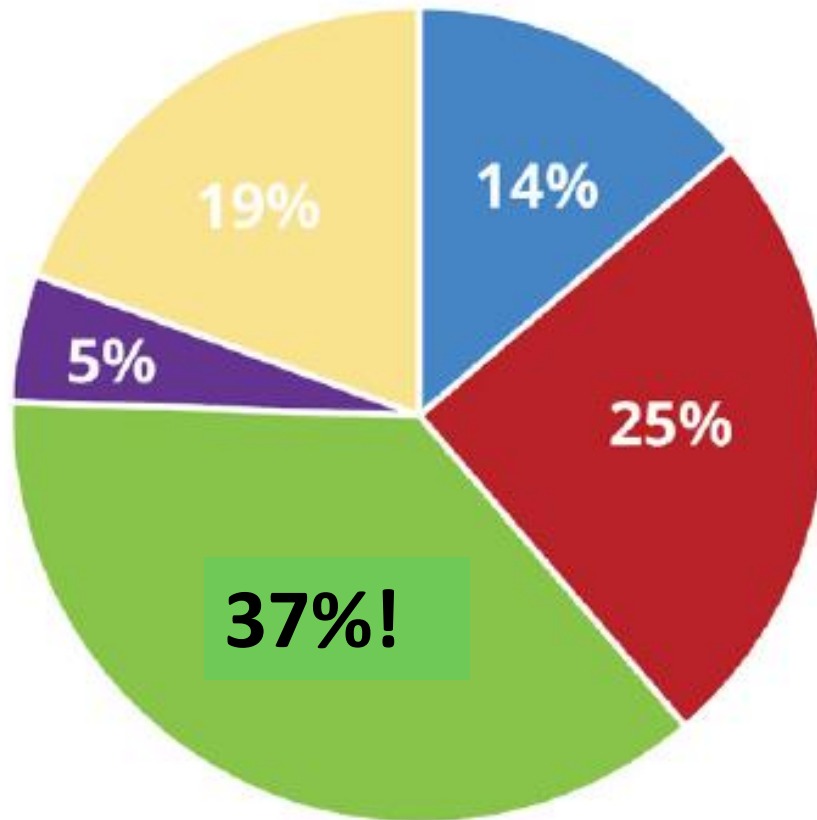
Kingston's Public EV Charging Network:

July 2020 Update

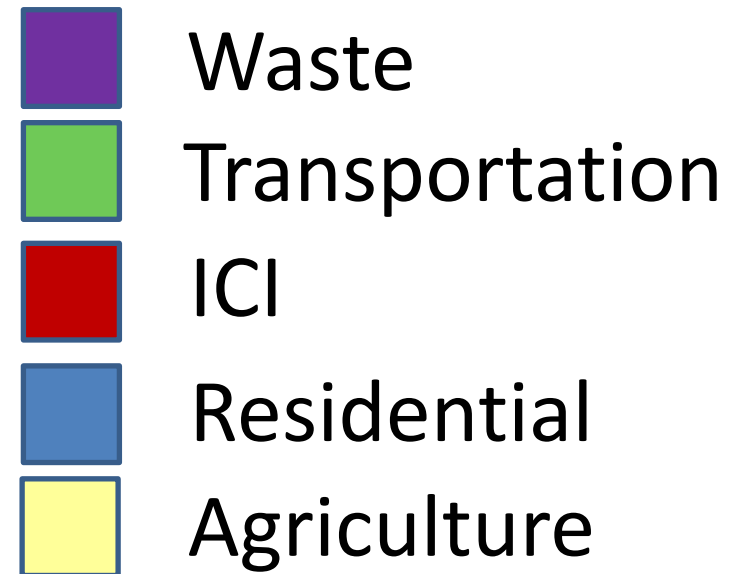


2017 Community Footprint

1.1 million tCO₂e



Sector



2018 EV Strategy

Municipal Operations:

- **Replace light duty vehicles & equipment with EV**
- **Install fleet EV charging infrastructure**
- **Procure 2 BEV transit buses (2021)**

Community:

- **EV information**
- **Public EV charging network**
- **No cost access for first 2 years**

Public EV Charging Network

46 Level 2
Stations at 21
Locations (Parks,
Arenas, Facilities,
On-Street)



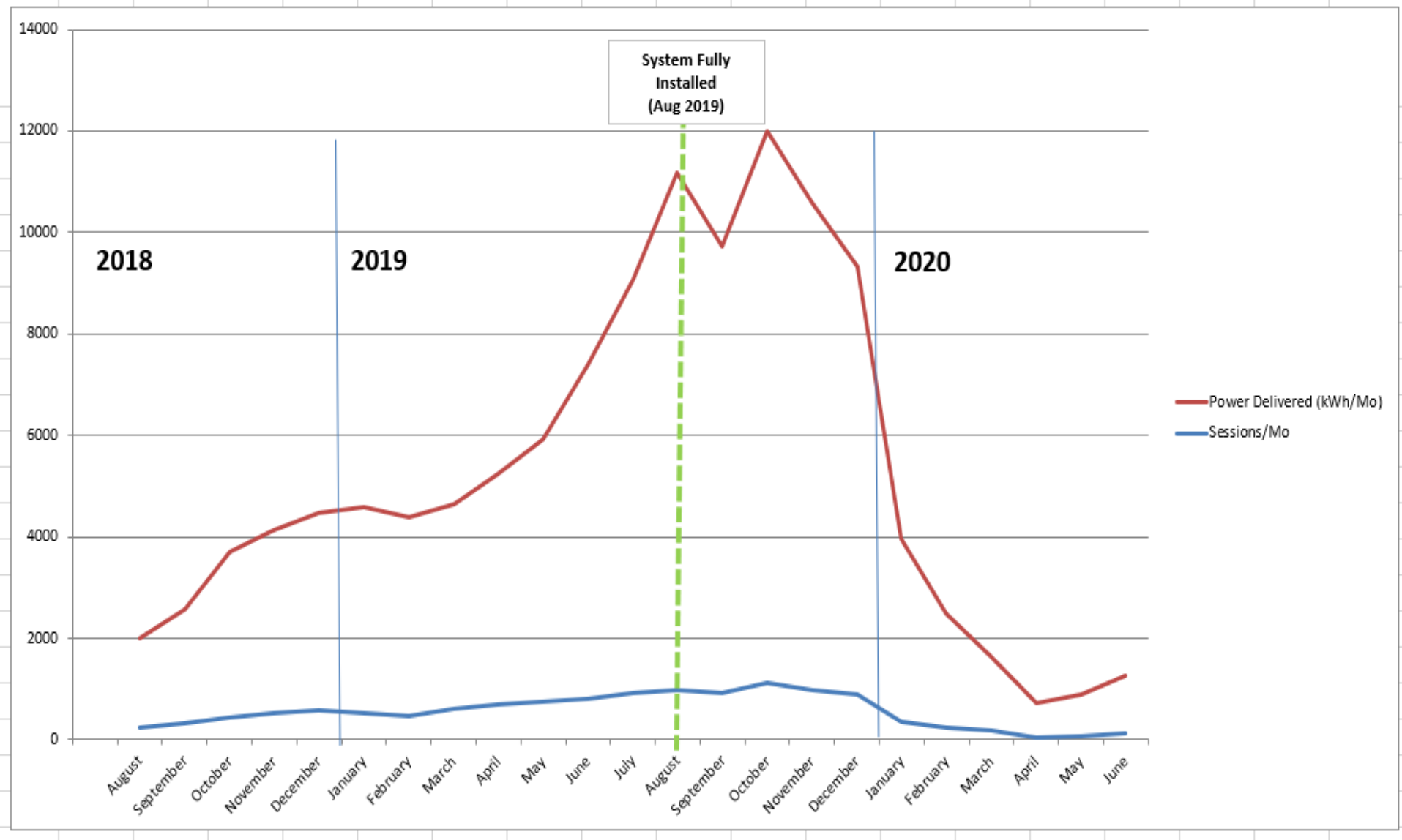
Public EV Charging Network

2 Level 3 Fast Chargers at Downtown Frontenac Parking Lot



Program Milestones

- 2017: City Council approves EV Strategy and \$796,000 program budget
- 2018:
 - 345 EV registrations to Kingston addresses
 - 80% of Level 2 EV Chargers operational
 - First year of no-fee Level 2 access pilot
 - Cancellation of Ontario's EV rebate
 - Top complaints/comments:
 - No-fee access is subsidizing those who don't need it
 - ICE'ing
- 2019:
 - 426 EV registrations to Kingston addresses
 - \$100K NRCan grant received for Level 3 chargers
 - 100% of Level 2 and Level 3 chargers operational
 - Second year of no-fee Level 2 access pilot
 - Top complaints/comments:
 - ICE'ing
 - No-fee access is subsidy to those who don't need it
 - No chargers for those without driveways
- 2020:
 - XXX EV registrations to Kingston addresses
 - January; No-fee access ends: Now \$1.50/hr for L2 and \$17/hr for L3
 - COVID19
 - Top complaints:
 - ICE'ing
 - City not doing enough to subsidize transition to EVs/cost to charger is too high



Financial Aspects

- Total capital cost to City net of grants = \$460,000
- 15% of gross revenues are retained by Flo in exchange for network operation, customer service and payment collection.
- Net revenues dispensed back to City quarterly.
- For each kWh dispensed by L2/L3:
 - Gross revenue of ~\$0.250 / \$0.420
 - Electricity cost = ~ \$0.140 / \$0.140
 - Flo network fees = ~\$0.038 / \$0.063
 - Net revenue = ~\$0.072 / \$0.22

Financial Aspects

January 2020 (worst case outside of COVID impacts):

- L2 stations:
 - 3,300 kWhrs dispensed
 - Approx. \$558 in net revenue
 - Simple payback of L2 capex = ~ 50 yrs
- L3 stations:
 - 700 kWhrs dispensed
 - \$234 in net revenue
 - Simple payback of L3 capex = ~ 35 yrs