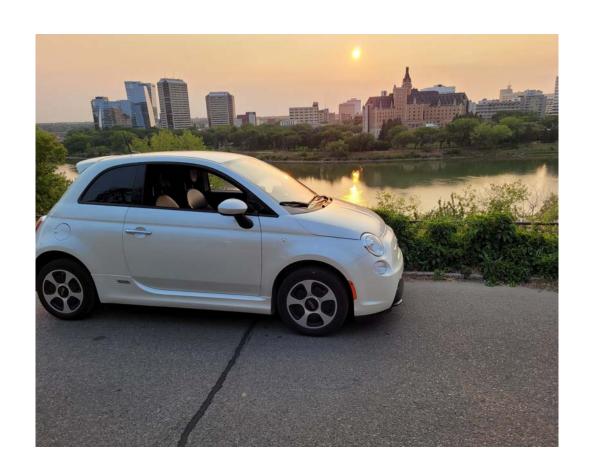




Accelerating EV Adoption in Saskatchewan

Agenda

- Where this came from
- My first EV
- Low carbon economy
- Your Next EV
- Factors affecting range
- EV battery life
- Charging stations
- GHG emissions
- EV costs

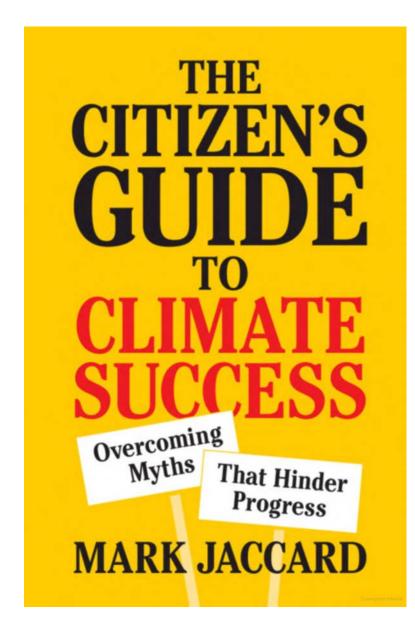






Pathways to a Low Carbon Economy

- Decarbonization of the grid
- Electrification of transportation



Your Next EV Sales Ltd.





Factors Affecting Range

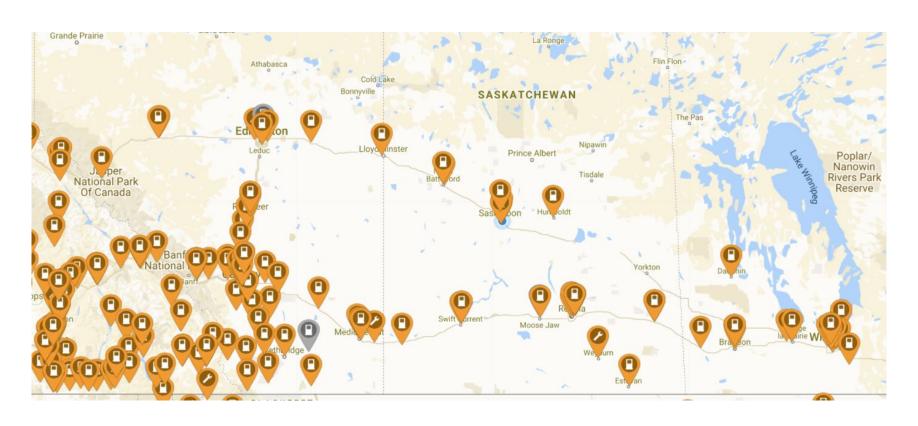
- Temperature
- Speed
- Headwind
- Heating and cooling
- Payload
- Rolling resistance



Factors Affecting EV Battery Life

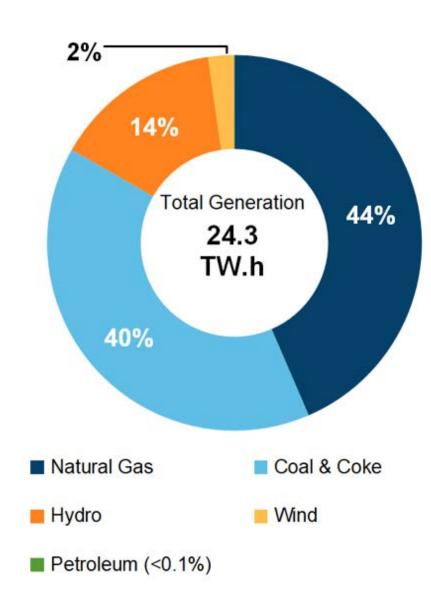


Where Are the DCFCs?



GHG Emissions in SK

- 2019 Nissan Leaf S
 - EPA 243 km/40 kWh
 - SaskPower grid intensity 0.641 kg/kWh*
 - 0.12 kg CO2/km
- 2011 Nissan Murano
 - EPA (combined) 10.3 l/100km
 - Gasoline 2.246 kg CO2/l
 - 0.23 kg CO2/km
- Result
 - Leaf produces 52% of Murano GHG emissions



^{*} SaskPower generation mix 2018

2022 Chevrolet Bolt LT Cost in SK

MSRP \$38,198

Freight 1,800

A/C <u>100</u>

Net Price \$40,098

Fed rebate <u>-4,504</u>

Price pretax \$35,594

https://ev.plugndrive.ca/vehicles



SK Diesel Prices

Base \$/I \$1.465

Federal tax 0.04

Prov fuel tax 0.15

Fed fuel charge 0.1341

GST <u>0.089</u>

Total price/l \$1.879*



^{*} April 4, 2022 Saskatoon

SK Gas Prices

Base \$/I \$1.248

Federal tax 0.10

Prov fuel tax 0.15

Fed fuel charge 0.1105

GST <u>0.08</u>

Total price/l \$1.689*



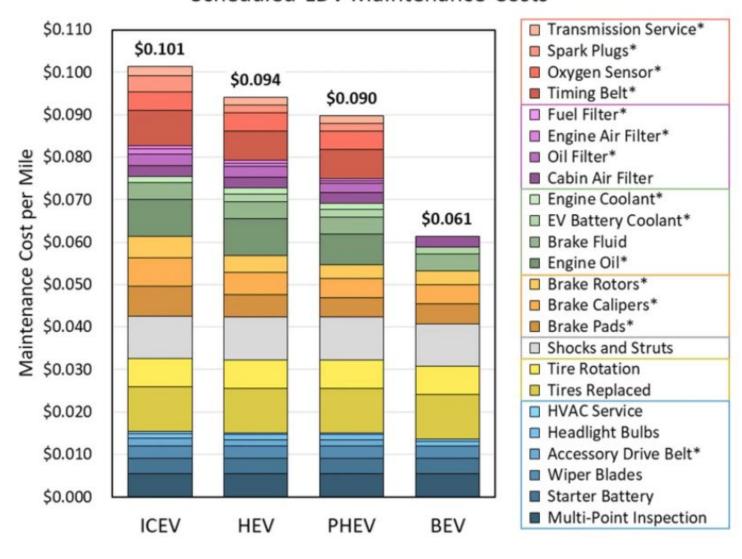
^{*} April 4, 2022 Saskatoon

Fuel Costs

- 2019 Nissan Leaf S
 - EPA 243 km/40 kWh
 - SL&P cost \$0.1717/kWh
 - \$0.033/km
- 2011 Nissan Murano
 - EPA (combined) 10.3 l/100km
 - Gasoline \$1.689/I
 - \$0.174/km
- Result
 - Leaf fuel costs 20% that of Murano



Scheduled LDV Maintenance Costs

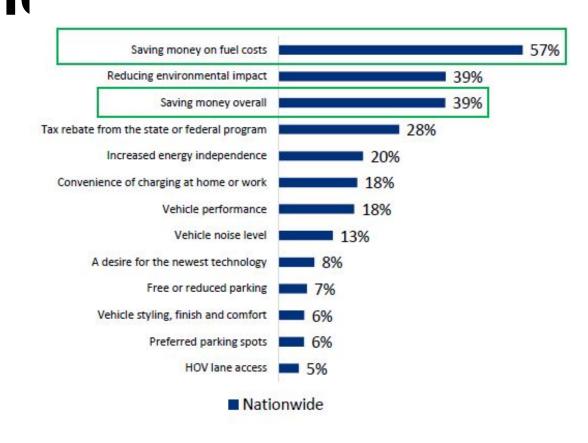


Why Drive an EV? (they do work

- Fuel savings
- Reduced GHG emissions
- Lower cost to operate
- Rebates
- Energy independence
- Charging at home
- Vehicle performance

But ...

- They cost more
- Range is a consideration



What Are Next Steps?

- Talk to a friend with an EV
- Join SaskEV, SEVA
- Test drive
- Shop for a car (new SK availability, longer range, rebate eligible)
 - Chevy Bolt EV, EUV
 - Hyundai Kona Electric
 - Hyundai Ioniq 5
 - Kia Soul EV (Regina)
 - Kia Niro EV (Regina)
 - Kia EV6
 - Nissan Leaf Plus (Prince Albert)

Discussion

