

What Do New Electric Trucks Mean for Maine and New Hampshire?

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Meet the Panelists:



Carine Dumit
Director, Market Development
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EVgo



Chris Rauscher
Senior Director, Market
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Sunrun



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Director of Electric Vehicle
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Revision Energy



Panel Moderator



David Littell
Shareholder & Chair of Climate
Change Practice Group
Bernstein Shur



EV Pickup Mileage Cost Estimates

Assumptions based on data released or advertised on:

F-150 gasoline engine, F-150 Lightning, Chevy Silverado EV, Tesla Cybertruck



Electric Pickup Versus Gas Pickup - 3 Season Mileage Cost

2021 Ford F-150 on gas

- 20 mpg on gas & 15 mpg E-15 (advertised)
- Take 20 mpg that is 5 gallons per 100 miles
- Bangor gas price at \$3/gallon = \$15 per 100 hundred miles
- 15 cents per mile for gas fuel
- 20 cents per mile for E15 fuel

2022 F-150 Lightening, 2023 Chevy Silverado, Cybertruck

- Range is 400 to 500 (advertised)
- ~3.5% Level 2 charging loss
- Cost to charge = \$39.33*
- 450 range midpoint on full battery
- battery @ 180-200 kWhr,
- Electricity cost to charge @ 19 ¢/kWhr (Maine's highest standard residential rate)
- 8.75 cents per mile for electricity (\$39.33/450 mile range = 8.75¢/mile)

***Cost to charge:** 200 kWhrs x 0.19 ¢/kWhrs x 1.035 losses = \$39.33

Electric Pickup Versus Gas Pickup – *Winter Mileage Cost*

2021 Ford F-150 on gas

- 20 mpg on gas & 15 mpg E-15 (advertised)
- Take 20 mpg that is 5 gallons per 100 miles
- Bangor gas price at \$3/gallon = \$15 per 100 hundred miles
- 15 cents per mile for gas fuel
- 20 cents per mile for E15 fuel

2022 F-150 Lightning, 2023 Chevy Silverado, Cybertruck

- Range is 270 miles (-40% heating)
- .35% Level 2 charging loss
- Cost to charge = \$39.33*
- 270 range on full battery
- battery @ 180-200 kWhr,
- Electricity cost to charge @ 19 ¢/kWhr (Maine's highest standard residential rate)
- 14.57 cents per mile for electricity (\$39.33/270 mile range = 14.57¢/mile)

***Cost to charge:** 200 kWhrs x 0.19 ¢/kWhrs x 1.035 losses = \$39.33

Electric Pickup Versus Gas Pickup – *Absolute Worse Winter Mileage*

2021 Ford F-150 on gas

- 20 mpg on gas & 15 mpg E-15 (advertised)
- Take 20 mpg that is 5 gallons per 100 miles
- Bangor gas price at \$3/gallon = \$15 per 100 hundred miles
- 15 cents per mile for gas fuel
- 20 cents per mile for E15 fuel

2022 F-150 Lightning, 2023 Chevy Silverado, Cybertruck

- Range is **225 miles (-50% heating)**
- .35% Level 2 charging loss
- Cost to charge = \$39.33*
- 270 range on full battery
- battery @ 180-200 kWhr,
- Electricity cost to charge @ 19 ¢/kWhr (Maine's highest standard residential rate)
- **17.5 cents per mile** for electricity (\$39.33/270 mile range = **17.5¢/mile**)

***Cost to charge:** 200 kWhrs x 0.19 ¢/kWhrs x 1.035 losses = \$39.33

Questions?

EVgo
FAST CHARGING

sunrun



BERNSTEIN SHUR

Thank you!