

BEV Registrations Up 28% in 2020

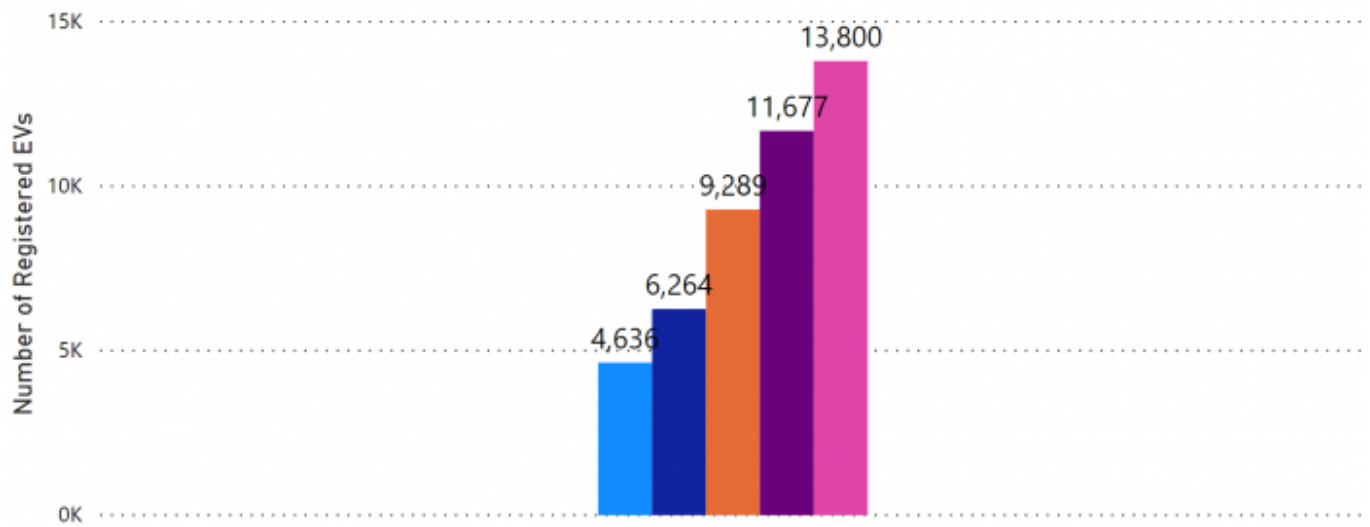
Updated CT EV Registration Files

Post by Barry Kresch

2020 was a difficult year to say the least with overall domestic automobile sales [sliding 15%](#) from 2019. Against that background, EV registrations in CT (a related, but different, metric) edged up 18.2% to 13,800 EVs of all stripes. EVs are defined the way they are by the state as battery electric vehicles (BEV), plug-in hybrids (PHEV), battery electric motorcycles (BEMC), and fuel cell electric vehicles (FCEV). The growth rate was slower than in the prior two years, which were 25.7% and 47.8% respectively. It is roughly that last rate of growth from 2 years ago that is needed on a consistent basis if the state is to hit the goal in the Zero Emission Vehicle Memorandum of Understanding. At this rate, CT falls further behind every year.

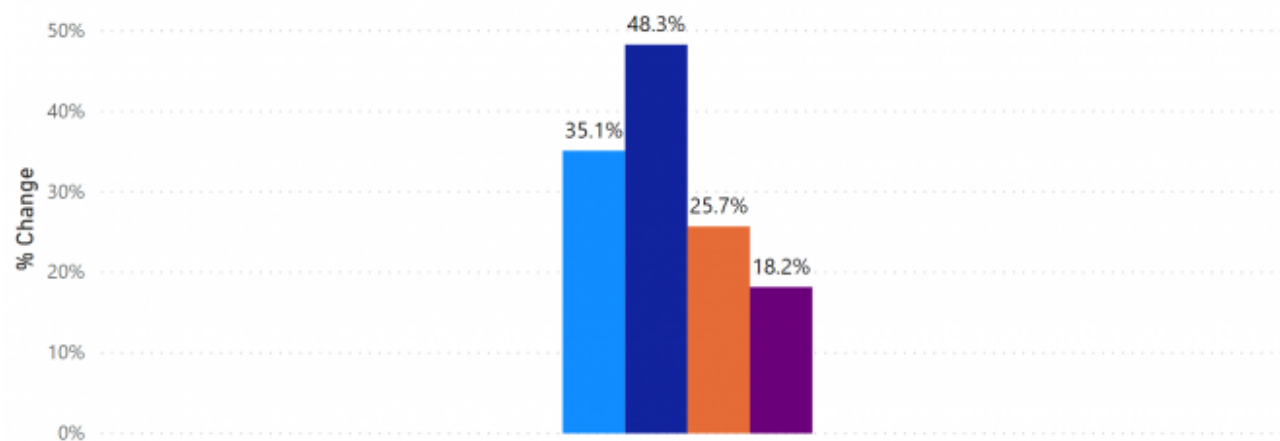
Trend of Registered EVs in CT 2017 - 2021

● 2017 EVs ● 2018 EVs ● Jan 2019 EVs ● Jan 2020 EVs ● Jan 2021 EVs



% Change by Period

● % Chg 2018/2017 ● % Chg 2019/2018 ● % Chg 2020/2019 ● % Chg 2021/2020

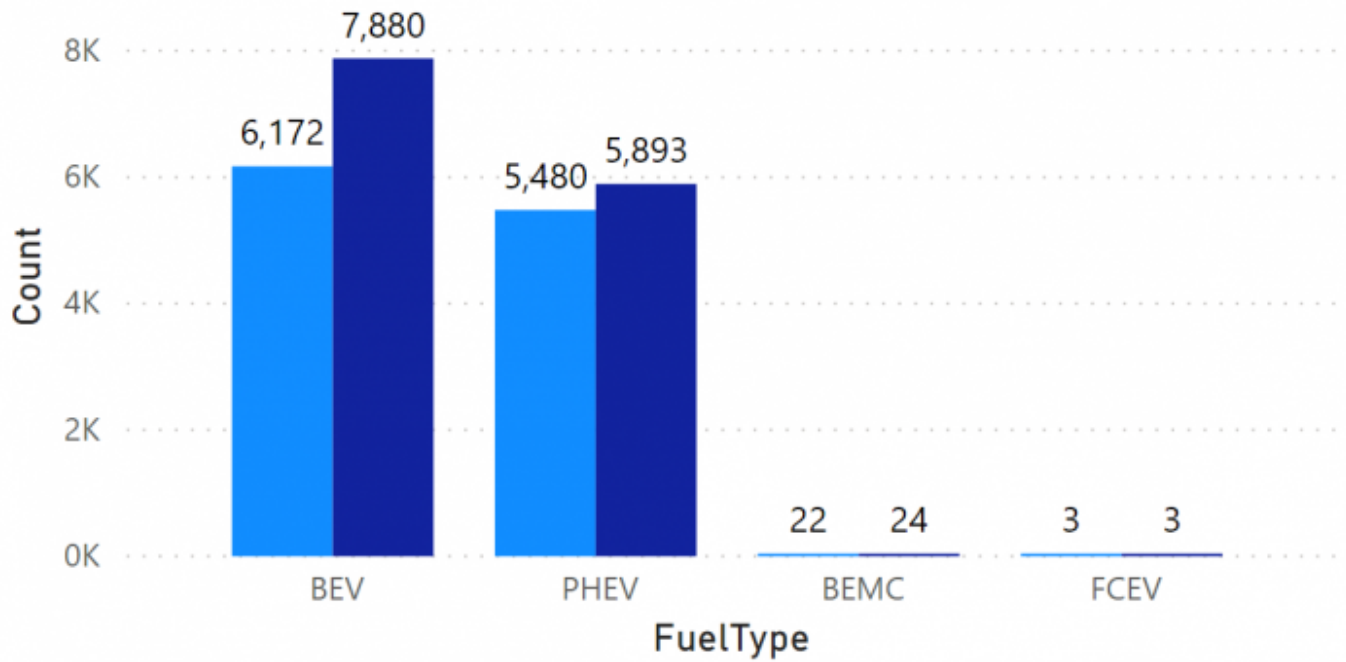


BEVs Lead the Way

BEVs led the way with a 28% increase, followed by PHEVs up 7.5%. There are only 24 BEMCs and 3 FCEVs, the latter of which are not currently available to buy or lease in the state.

Jan 2020 EVs and Jan 2021 EVs by Fuel Type

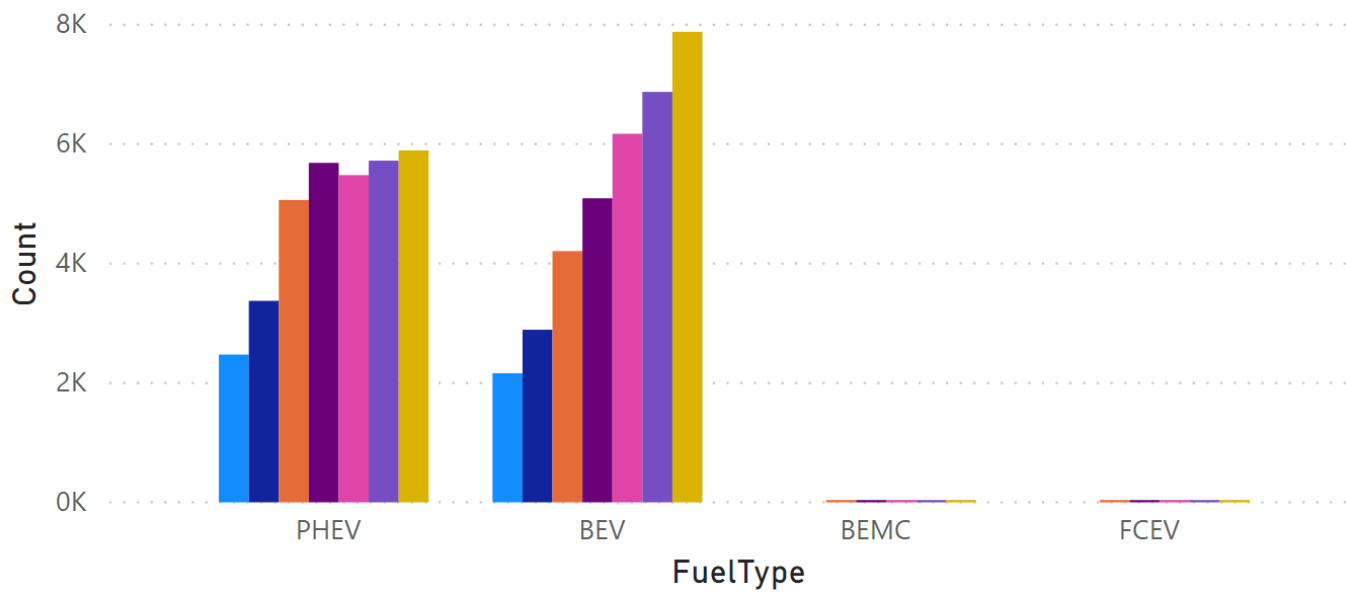
● Jan 2020 EVs ● Jan 2021 EVs



PHEV growth has flattened since 2019.

Fuel Type Trend

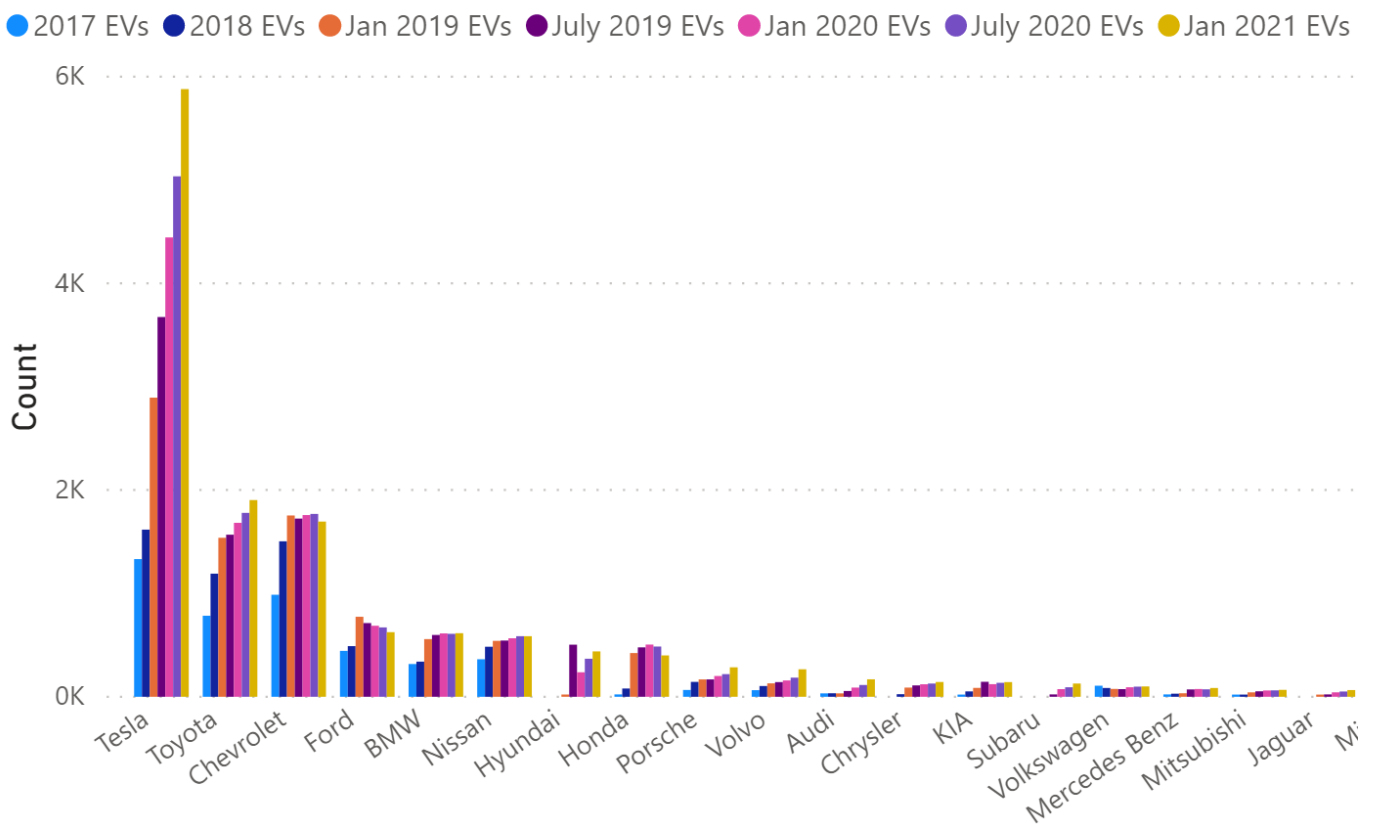
● 2017 EVs ● 2018 EVs ● Jan 2019 EVs ● July 2019 ... ● Jan 2020 ... ● July 2020 ... ● Jan 2021 ...



Tesla Again Leads By a Wide Margin

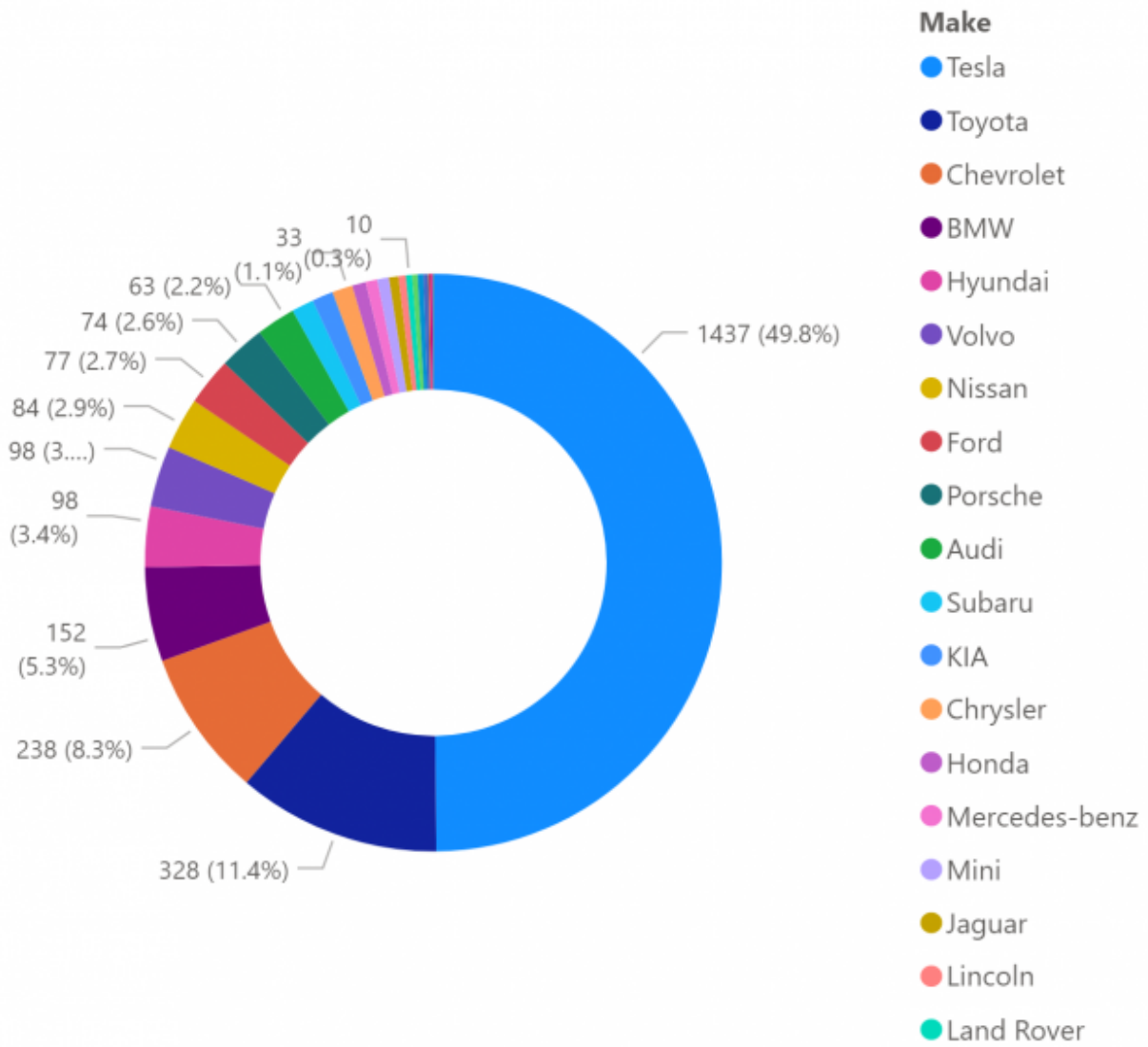
The chart below is an excerpt of the makes with the largest number of registered vehicles. Tesla continues robust growth (and they're not allowed to open stores here, why???). Astonishingly, there is no other manufacturer with a strong increase. There are some that modestly increased (Toyota, Volvo, Audi, Subaru, Nissan), others that are basically flat (most), and a few major players that posted declines (Chevrolet, Ford, Honda). This is a decline in net registrations. It is a function of how many cars they sold versus the turnover in the existing base. Chevy is seeing older Volts exit the file. Honda has stopped trying to sell the Clarity in CT. There could be a change next year for Ford depending on deliveries of the Mustang Mach-E.

Trend of EVs by Make



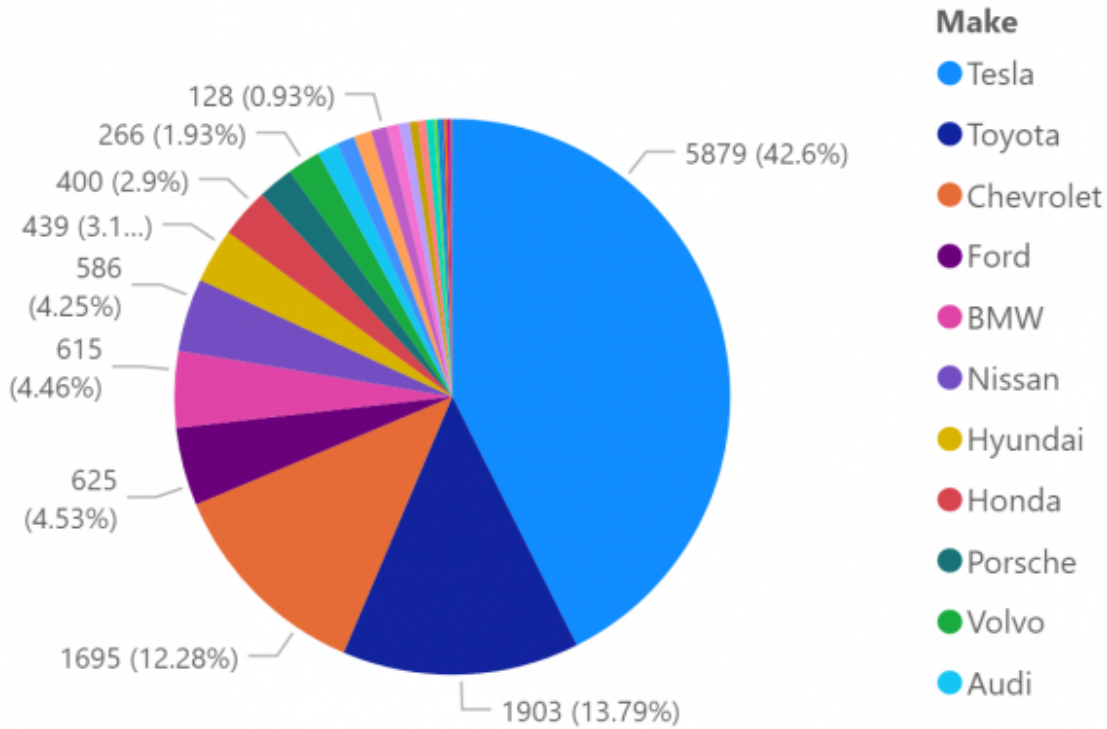
Tesla was responsible for 47% of the vehicles entering the file.

Newly Registered EVs by Make Jan 2021



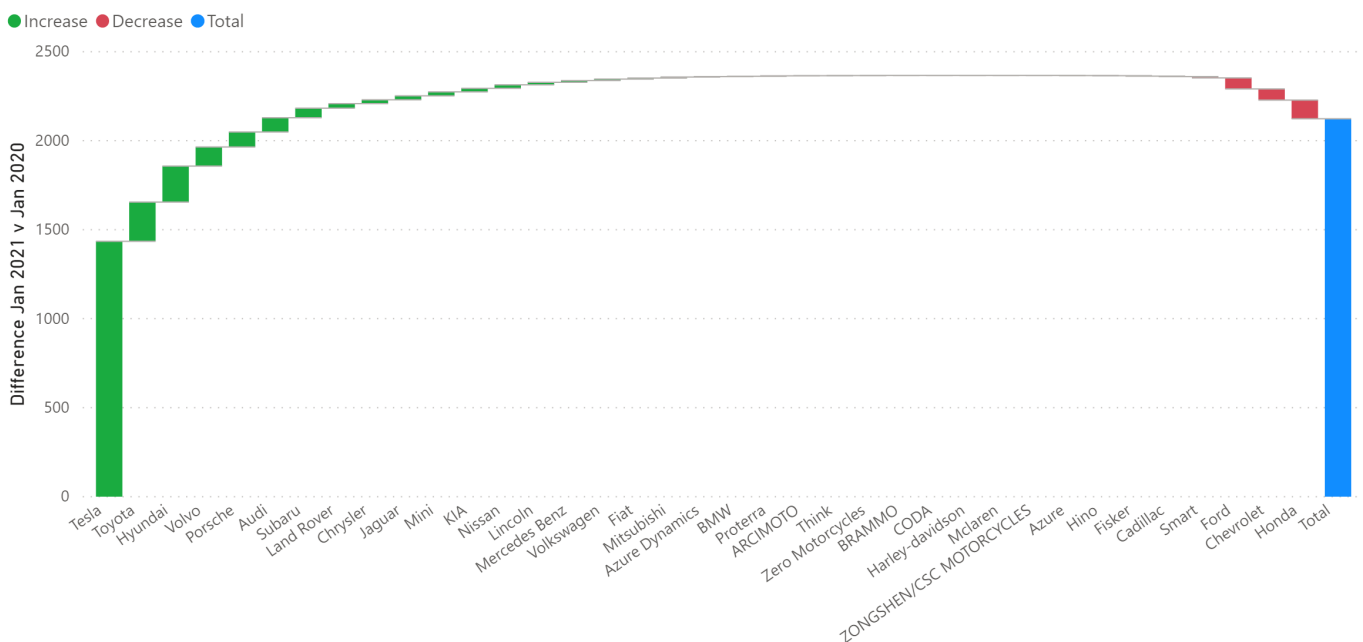
This brought its net share to 43%, up from 40% in July.

EVs by Make Jan 2021



This trend is most dramatically illustrated in this growth contribution waterfall chart, which takes the YOY difference in registrations by make and divides it by total net new registrations. This reflects both positive and negative contributions.

Growth Contribution Jan 2020 to Jan 2021



Watch this space. More to come....