2019 Greater Auto Show

FEB 7-10, 2019
SEAGATE CONVENTION CENTRE

ENTER TO WIN

FCA RIDE & DRIVE EXPERIENCE

Come take a spin in one of our award-winning vehicles from Chrysler, Dodge, Jeep, RAM and Fiat! The FCA Ride & Drive Experience* will be open all four days of the show. For hours and more details please visit TOLEDOAUTOSHOW.ORG

*Drivers must be 18 years or older with a valid driver’s license.

ADMISSION
General Admission ............... $8
Seniors (Age 65+) ............... $6
Students (with valid ID) ........ $6

HOURS
Thursday, Feb. 7 ...... 3pm – 9pm
Friday, Feb. 8 ......... 12pm – 9pm
Saturday, Feb. 9 .... 10am – 9pm
Sunday, Feb. 10 ...... 10am – 5pm

SEAGATE CONVENTION CENTRE
401 Jefferson Ave • Toledo, OH 43604

PARKING
• Port Lawrence Parking Garage—FREE Saturday & Sunday ONLY!
• Seagate Garage—located below the Seagate Centre
• Seagate Surface Lots

2-YEAR LEASE 2019 TOYOTA COROLLA HATCHBACK!
Enter to win a 2-year lease on the 2019 Toyota Corolla Hatchback at any of the NW Ohio Toyota Dealers until Tuesday, February 5 or stop by the Seagate Convention Centre starting on Thursday, February 7 at 3pm to enter in person. No purchase necessary; rules can be found at TOLEDOAUTOSHOW.ORG

SPONSORED BY
NORTHWEST OHIO TOYOTA DEALERS

SAVE MONEY!
GET YOUR TICKETS ONLINE FOR ONLY $6

Sponsored by
THE BLADE
2019 GREATER TOLEDO AUTO SHOW
SeaGate Convention Centre
Here's Your Map to the Show!

FOR MORE INFORMATION VISIT
TOLEDOAUTOSHOW.ORG

SCHEDULE OF EVENTS

THURSDAY
FEB 7
- FCA Ride & Drive Experience 3pm to 8pm
- Toyota Corolla Hatchback 2-Year Lease Giveaway
- Photo Scavenger Hunt & Selfie Contest

FRIDAY
FEB 8
- FCA Ride & Drive Experience 12pm to 8pm
- Toyota Corolla Hatchback 2-Year Lease Giveaway
- Photo Scavenger Hunt & Selfie Contest

SATURDAY
FEB 9
- FCA Ride & Drive Experience 10am to 8pm
- Balloon Artist 11am to 3pm
- Face Painting Artist 11am to 3pm
- Toledo Mud Hens Mascots: 1pm to 3pm
- Toyota Corolla Hatchback 2-Year Lease Giveaway
- Photo Scavenger Hunt & Selfie Contest

SUNDAY
FEB 10
- FCA Ride & Drive Experience 10am to 5pm
- Toledo Mud Hens Mascots: 1pm to 3pm
- Toyota Corolla Hatchback 2-Year Lease Giveaway
- Photo Scavenger Hunt & Selfie Contest

FOR MORE INFORMATION VISIT TOLEDOAUTOSHOW.ORG

2019 GREATER TOLEDO AUTO SHOW
SeaGate Convention Centre
Here's Your Map to the Show!
THAYER TOYOTA
1225 North Main St. • Bowling Green
419-352-5751
888-889-0194
thayertoyota.com

VISIT YOUR NORTHWEST OHIO TOYOTA DEALER TODAY!

YARK TOYOTA
1377 Conant St. • Maumee
419-893-5000
844-339-0091
yarktoyota.com

JIM WHITE TOYOTA
6123 West Central Ave. • Toledo
419-841-6681
800-61-WHITE
jimwhitetoyota.com

LaRICH TOYOTA
920 Plaza St. • Findlay
419-423-5656
36 Mos.
$2999
Due at Signing

TOYOTA AUTO SHOW SAVINGS
SAVE BIG ON TOYOTA’S NEWEST STARS!

NOW ARRIVING
All-New 2019 RAV4
Every Day Deserves More Adventure.

THAT’S OVER & ABOVE ALL OTHER INCENTIVES!

NEWEST STARS!

NOW INCLUDES RETIRED MILITARY
(Regardless of Time Since Retirement)
ACTIVE-DUTY & INACTIVE RESERVE
MILITARY PERSONNEL
HONORABLY DISCHARGED VETERANS
Within 2 Years of Service
See dealer for details.

TACOMA
BUILT IN THE USA
any new 2019 TACOMA (Excludes TRD Off-Road)

$1000
Cash Back¹

SIENNA
BUILT IN THE USA
America’s Only AWD Minivan!
any new 2019 SIENNA

$2500
Cash Back¹

TUNDRA
BUILT IN THE USA
any new 2019 TUNDRA (Excludes TRD Off-Road)

$1500
Cash Back¹

4RUNNER
BUILT IN THE USA
any remaining new 2018 4RUNNER (Excludes TRD Off-Road)

$1500
Cash Back¹

HIGHLANDER
BUILT IN THE USA
any new 2019 HIGHLANDER (Excludes Hybrid)

$1250
Cash Back¹

COROLLA
BUILT IN THE USA
any new 2019 COROLLA (Excludes Hatchback)

0% APR Financing 72 Mos.²

$2000
Cash Back²

CAMRY
BUILT IN THE USA
any new 2019 CAMRY (Excludes Hybrid)

$1000
Cash Back¹

2-UPFEP

—ask-about-the

$1000
COLLEGE GRAD
REBATE PROGRAM
THAT’S OVER & ABOVE ALL OTHER INCENTIVES!

Every New Toyota Comes With ToyotaCare. Toyota’s No Cost Maintenance Plan.

1. Qualified military personnel and household members of eligible military personnel are eligible for incentives in addition to all other incentives. Describing on models through Toyota Motor Sales, U.S.A., Inc., unless offered through Toyota Financial Services. Most new CDV model delivery dates from 12/1/2018 to 12/31/2018. Cash Back, $2,500-$2,899, $5,000-$5,999, $7,500-$7,999, $10,000-$10,999 and $12,500-$12,999. Cash Back amount based on MSRP, $5,000-$5,999 to $12,500-$12,999. Cash Back amount varies depending on MSRP. $2,500-$2,899 to $5,000-$5,999. $5,000-$5,999 to $7,500-$7,999. $7,500-$7,999 to $10,000-$10,999. $10,000-$10,999 to $12,500-$12,999. $10,000-$12,000. 12/1/2018 to 12/31/2018. Eligibility confers eligibility to the entire vehicle. See dealer for full details. Cash Back incentive applies to any new, 2019 model Tundra (Excludes TRD Pro). Cash Back incentive applies to any new, 2019 model Camry (Excludes hybrid). Cash Back incentive applies to any new, 2019 model Highlander (Excludes hybrid). Cash Back incentive applies to any new, 2019 model Corolla (Excludes Hatchback). Cash Back incentive applies to any new, 2019 model Tacoma (Excludes TRD Off-Road). Cash Back incentive applies to any new, 2019 model RAV4. Cash Back incentive applies to any new, 2019 model Highlander LE. Cash Back incentive applies to any new, 2019 model Camry LE. Cash Back incentive applies to any new, 2019 model Sienna. Cash Back incentive applies to any new, 2019 model Highlander SE. -or- Lease a new 2019 TACOMA SR 4X4 DOUBLE CAB 6-Speed AT ECT+ 4-Door Pickup Truck Model #7534 $239/mo. 3-Year Low Mileage 10,000-Mile/Year Lease 36 Mos. $2999 Due at Signing

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The Blade/Rebecca Benson

General Manager Jason Perry with the Mercedes Benz GLC300 4Matic at Vin Devers Autohaus of Sylvania in Sylvania.

CARS AND STARS

The Toledo Automobile Show is a Toledo and Camp Catch-A-Stars event, sponsored by The Blade at the Sea-Gate Convention Center, will feature more than 20 dealers and nearly 200 models. Attendees can take a tour of the cars out on the road. But Chrysler Automobiles is offering a chance to win money to a 2019 Toyota Corolla Hatchback. There are events, like face painting and balloon art, a photo scavenger hunt, and selfie contest.

The time of year we do this is great because there’s not a lot to do,” said Tim Koshman of Lenox of Toledo. “It gives people a chance to get close and personal with the products.” In downtown Toledo so everything is 15 minutes away. It’s easy to park and get in.

Hours for the Toledo Auto Show are: Feb. 7, 3 to 9 a.m.; Friday, Feb. 8, noon to 9 p.m.; Saturday, Feb. 9, 10 a.m. to 9 p.m.; Sunday, Feb. 10, 10 a.m. to 5 p.m. Tickets for adults are $11 at the box office and online (children under 9 are free). Tickets for the charity preview gala are $250 and may be offering a raffle around downtown toledo.org. The Sea Gate Center is at 401 Jefferson Ave.

The Blade/Mark Keglowitsch

It’s not just a no-pressure environment,” said Perry of this year’s other beneficiary, the Catholic Club, a non-profit, educational center that provides a variety of services to children and families, including counseling, tutoring, and enrichment opportunities.

“The Children’s Rights Collaborative of Northwest Ohio, which provides a safe and supportive environment for victims and exchanges between parents and children.

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9

2019 Toyota Highlander Hybrid.

Based on EPA estimates of 15,000 miles driven annually by Auto Dealers United of Northwest Ohio, which will display Audi and Mercedes models at the Toledo and Camp Catch-A-Stars event, the following month has cars you could drive home — just not from the show. "The car show is important for the Toledo market because we’re offering something the Detroit show can’t in a family-friendly environment,” said the major’s son, Jason Perry, general manager of Vin Devers Autohaus of Sylvania, which will display Audi and Mercedes models at the Toledo and Camp Catch-A-Stars event.

“The Detroit show is missing the family, the kids can be here, they can see if the car fits your lifestyle and not feel like you’re waiting in line for a ride,” said Perry. “Here, you can see all the vehicles you’re interested in line for a ride.”

Spencer said. “A program that makes it easier for families at the Storer Camps facility in Jackson, Mich. to find new cars, at the Storer Camps facility in Jackson, Mich. To find new cars, ‘How can we leverage that?’ Andrea Dunn-Blaschke of Dunn Chevrolet Buick is this year’s committee chairman. It’s shared by the2019 Explorer Hybrid and 2018 Ford Explorer.

The police version 2019 Explorer Hybrid can be the hear the eyes roll from here. You hate the styling, I get it, but slashing doors and wide spaces make the minivan the most practical family car around. Pacifica gets 29 mpg combined, too, without factor-including a range of 24 to 26 mpg. That would suffice the vast majority of family needs, we expect, so there would be no gas charge annually except for fill-ups. Car is simple to drive, you money saved on gas! But it’s not a crossover. Now I’m one for rolling my eyes. At $52,800 and 26 mpg combined, the excellent Accent, MKS Sport Hybrid is the near-

In 2019, Northwest Ohio Toyota dealers are offering the chance to win a two-year lease on a 2019 Toyota Corolla Hatchback. That impact is certainly felt at Camp Catch-A-Haino, said Becky Snyder, vice president of Camp Catch-A-Haino for Greater Toledo. The program serves campers who are treated for cancer or who are in treatment at St. Vincent Charity Hospital facility in Jackson, Mich.

“The families are pretty stretched financially,” said Snyder. “I program like this being offered for free makes a big difference.”

This year’s other beneficiaries are: The Catholic Church, a non-profit, educational center that provides a variety of services to children and families, including counseling, tutoring, and enrichment opportunities.

• The Children’s Rights Collaborative of Northwest Ohio, which provides a safe and supportive environment for victims and exchanges between parents and children.

• Safe Kids Greater Toledo, a community coalition led by Pedallo’s Children’s Hospital and aimed at keeping children safe from accidental injuries. Each year sees a different Safe Kids Greater Toledo, a community coalition led by Pedallo’s Children’s Hospital and aimed at keeping children safe from accidental injuries.

CARS AND STARS

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Jeep pulls industry along with sales up 17.5 percent in 2018

BY JON CHAVEZ
Blade/Jetta Fraser

Jeeps have a reputation for being able to tow heavy loads, but that's not why they could pull the U.S. auto industry through a slowdown.

While nearly every other major automaker struggled in 2018, Fiat Chrysler Automobile's Jeep brand sold well enough to keep the slumping domestic industry's head above water.

For the year, total U.S. car and light-truck sales totaled 17.5 million, a 4.6 percent increase or about 96,000 more vehicles sold in 2018 than in 2017.

Sales of Jeeps, the No. 6 auto brand, were 1.6 million vehicles, up 145,000 vehicles, or 10.1 percent, last year, or 145,000 vehicles.

Leading the way was the Toledo-made Jeep Wrangler, which saw sales increase by 145,000 vehicles over 2017. Jeep Compass sales increased by 145,000 vehicles over 2017.

"Jeep was huge," Michelle Krebs, an analyst with Auto-Trade.com, said. "It was one of the few winners."

"Fiat Chrysler, in general, was a winner as a result. I think they gained a full percentage point in market share, which may not sound like a lot but is a huge deal," she said. "And it was mostly on the back of Jeep and the Wrangler obviously was a lot of that."

Driven by Jeep sales, sales by FCA as a whole jumped 8.4 percent, for the month and marked the 26th straight month that truck and light-truck sales — which includes Jeep — topped 5.36 million.

Conversely, sales of U.S. light trucks — which includes pickups, SUVs, and crossovers — rose by 8 percent, or about 800,000 vehicles, while sales of cars fell by 14 percent, or about 1.2 million vehicles.

General Motors declined 1.6 percent, Ford Motor Co. 3.5 percent, and Honda 2.2 percent, while Toyota Motor N.A. 0.3 percent, and Volkswagen, which rose 4.9 percent.

"I think the Jeep Gladiator was one of the hits of the (Detroit) auto show. It was a big attention grabber. It was so unique. And we are seeing a lot more competition in the SUV segment. They were all over the (Detroit) auto show. Everybody had them," she said.

"Lately they're discounting them more and inventories are rising.

Light trucks accounted for 68 percent of industry sales in the first several weeks of August, which was a record level for the month and marked the 26th straight month that truck volume had topped 60 percent of the overall market, according to J.D. Power and Associates.

"Cars, they're falling. Chryslers are the big thing and Jeeps are the big thing," she said. "And they're falling. Chrysler made a smart decision a few years ago to drop out of very few years ago to drop out of the traditional car market, " Ms. Krebs said.

"They were all over the (Detroit) auto show but it was a darling this month at the North American International Auto Show in Detroit.

"I think the Jeep Gladiator was one of the hits of the (Detroit) auto show. It was a big attention grabber. It was so unique. Nothing like it and nothing like it," Ms. Krebs said.

But how long Jeep can continue its hot streak and continue to buoy the industry as a whole is anyone's guess, she added.

SUVs and crossovers are hot now but will that continue when autonomous vehicles start becoming more prevalent? "I remember when minivans were the big thing and that faded," Ms. Krebs said.

"And we are seeing a lot more competition in the SUV segment. They were all over the (Detroit) auto show. Everybody had them," she said.

"Lately they're discounting them more and inventories are rising.

The Wrap
The Blade/Lori King
For years, Tesla Chief Executive Elon Musk has been promising science-fiction-sounding remote control software for Tesla cars. He’s promised a mobile app to signal a car to drive itself around a parking lot, find a spot and park, checking signs to make sure the spot is legal.

In 2016, he told reporters that “within two years, you’ll be able to summon your car from across the country” — alerting a car parked in New York to drive itself and meet the owner in Los Angeles.

None of this has happened yet.

But Mr. Musk recently promised an “advanced summon” feature is “almost ready to roll out.”

A basic summon option already lets Model S and X Teslas park themselves remotely on a driver’s command. With the new advanced summon, to be available in any Model S, X and 3 manufactured over the last two years, a person with a smartphone can tell a Tesla to “drive to your phone location & follow you like a pet,” Mr. Musk wrote on Twitter in October.

“You’ll be able to drive it from our phone remotely like a big [remote control] car if in line of sight,”

Mr. Musk said “regulators just approved” the feature, though he didn’t say which regulators.

Such software does not require regulatory approval by the U.S. government under current federal law. He may have been talking about Europe, China, or a U.S. state.

Tesla did not return emails and phone calls requesting clarification.
A group of Edmunds editors made such a journey in December, in just seven days. Along the way, they encountered amazing vistas, dark and lonely roads, and plenty of rain, subfreezing temperatures and snow. Here are four takeaways that stood out above the rest.

**TORQUE-VECTORED ALL-WHEEL DRIVE EXCELS IN SNOW**

Four-wheel drive (4WD) and all-wheel drive (AWD) are not interchangeable terms. The AWD systems found on most pickups and four-wheelers employ a center differential, which allows for smooth engagement of the drive axle. But there's still a lot of variation. Some MTs (mountain) states had 80 mph interstate speed limits, so we even found narrow two-lane roads posted at 65 mph or more. These dark rural stretch-es tend to host wildlife — big and small. We also drove through open grazing lands where cattle roam free, usually black-coat-ed herds that blend in with the landscape, the only light snowfall.

**They're often called snow tires, but winter tires is a better name because they also provide added grip on rigid pavement even when there's no snow.**

Winter tires work in two ways: Their specialized tread features numerous fine cuts known as “sipes” that give them myriad biting edges. Winter tires also employ a specialized rubber formulation that remains grippy and pliable in subfreezing conditions.

Winter tires are by far the better choice for those who live with real winter, particularly if hills and winding roads are involved. Our test-drive route included more than 2,500 miles of subfreezing temperatures and numerous high mountain passes, so we fitted a set of winter tires before we reached the Northern Plains and Rocky Mountain states. In the High Rockies, our vehicle remained confident and well-planted where others struggled.

**HEALTHLIGTS REALLY MATTER**

Away from cities, it's still dark out there. We drove many roads that were completely unlit, and we often saw no other cars. Several rural states had 80 mph interstate speed limits, but we even found narrow two-lane roads posted at 65 mph or more. These dark rural stretch-es tend to host wildlife — big and small. We also drove through open grazing lands where cattle roam free, usually black-coat-ed herds that blend in with the landscape. The ability to see far ahead is critical in such conditions. But in these conditions, the only light you have is what your car can provide.

Headlight technology has been evolving rapidly, with LED headlights generally offering the best illumination. But there's still a lot of variation in performance, so the Insurance Institute for Highway Safety recently began testing and rating headlight performance.

**DO NOT WRITE OFF BUILT-IN NAVIGATION**

Apple CarPlay and Android Auto let you operate your smartphone’s navigation app via a vehicle’s touchscreen. But there are limitations. You must own a smartphone with a good-size data plan. You must also be driving in an area where others provide data coverage. Such coverage is not a given in every corner of our country, especially if you use back roads away from the interstate, as we often did.

But it’s more common than that. There are several “no service” areas less than 50 miles from downtown Los Angeles. There are workarounds, such as pre-saving routes or initiating guidance when you have service.

But only a vehicle’s built-in navigation lets you see maps and establish guidance when there’s no data-level cell service.

Even if you don’t drive 10,000 miles in a week, safe travel in conditions and unfamiliar terrain is a lot easier and more enjoyable if you have the right vehicle and equipment to suit the trip.
ASSOCIATED PRESS

LANSING — Google's self-driving spinoff Waymo to put factory in Michigan

Waymo spokesman Alexis Georgeson said the company plans to hire up to 800 people to work at the factory, including engineers, operations experts, and fleet coordinators. She said Waymo is looking for a site and hopes to open the plant in the middle of this year.

A memo from the Michigan Economic Development Corp. says Waymo will create 100 jobs, with the potential to grow to 400, and it chose Michigan despite a "high level of interest" from states in the Midwest, South, and Southwest.

The company integrates its technology with electric and self-driving vehicles in snowy weather, and will deploy the vehicles with human backup drivers. It plans to expand the service to the San Francisco area but has not given a time frame.

Waymo previously announced plans to buy 62,000 Pacificas and 20,000 I-Pace electric SUVs from Jaguar.

Waymo, which has a 20-employee facility in the Detroit suburb of Novi where it tests autonomous vehicles, said the announcement shows that Waymo was spun off from Google and is part of parent company Alphabet Inc., has plans to integrate itself into the existing auto industry.

"You can't reinvent everything. Coming to Michigan in some ways is your complete recognition of that," said Mr. Smith. "Michigan is where you go in the United States to be fully immersed in automotive culture and industry."

He said Waymo will find abundant labor supply at a lower cost than in California, where it is now headquartered.

In this Jan. 8, 2017, file photo a Chrysler Pacifica hybrid outfitted with Waymo's suite of sensors and radar is displayed at the North American International Auto Show in Detroit. Google's self-driving car spinoff Waymo said Tuesday it will bring a factory to Michigan, creating up to 400 jobs at what it describes as the world's first plant "100 percent" dedicated to the mass production of autonomous vehicles. (AP Photo/Paul Sancya, File)

In this March 27, 2018 file photo, the Jaguar I-Pace vehicle outfitted with Waymo's suite of sensors and radar is introduced in New York. Google's self-driving car spinoff Waymo said Tuesday it will bring a factory to Michigan, creating up to 400 jobs at what it describes as the world's first plant "100 percent" dedicated to the mass production of autonomous vehicles. (AP Photo/Mark Lennihan, File)

"This is an announcement about a facility to be, and the cars that will come from that facility one day," Mr. Smith said. "What this is in that Waymo plans to eventually expand. They've been setting that foundation for a couple of years now."

Michigan Economic Development Corp. CEO Jeff Mason said Silicon Valley companies are increasingly interested in relocating to or expanding in the state.

He cited KLA-Tencor's plan to open a $70 million semiconductor-conductor research-and-development center in Ann Arbor and Samsung SDI's plan to build a $60 million-plus electric vehicle battery pack plant in Auburn Hills.

In this Jan. 8, 2017, file photo a Chrysler Pacifica hybrid outfitted with Waymo's suite of sensors and radar is displayed at the North American International Auto Show in Detroit. Google's self-driving car spinoff Waymo said Tuesday it will bring a factory to Michigan, creating up to 400 jobs at what it describes as the world's first plant "100 percent" dedicated to the mass production of autonomous vehicles. (AP Photo/Paul Sancya, File)

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Seeking thrifty ways to cut pollution, Rotterdam links up with hybrid owners

REUTERS

ROTTERDAM, Netherlands — As Daan Hosli’s hybrid BMW glides into downtown Rotterdam, it passes a virtual boundary into the city’s “electric-only zone” and his mobile phone tells him to switch off his combustion engine and drive on battery power.

Mr. Hosli is taking part in Electric City Drive, one in a series of projects planned by the city of Rotterdam and BMW looking to cut greenhouse gas emissions and reduce traffic pollution — without breaking the bank.

“The first results look promising,” said Arno Bonte, the city’s vice mayor, who oversees energy policies. “I hope we can extend this project as soon as possible, also to owners of cars by other brands.”

Participants have a smartphone app, developed by BMW, which monitors their engine usage and reminds them to switch, voluntarily, to electric driving when they hit a geo-fence.

In Rotterdam, it passes a virtual boundary into the city’s “electric-only zone” and his mobile phone tells him to switch off his combustion engine and drive on battery power.

Accounts to the city, Mr. Bonte said, are nil.

Initial results show participants are willing to use battery power exclusively while in the zone about 90 percent of the time.

The Netherlands is an outlier in Europe, with relatively fewer hybrids than electric vehicles, 100,000 versus 40,000 — together still just a small fraction of the 8.1 million vehicles on the country’s roads.

But “if you really want to make a difference now, you have to look at hybrids,” said BMW Netherlands CEO Stefaan Vurst.

That is because, with European cities struggling to meet dual goals of improving air quality and reducing greenhouse gas emissions from cars by 30 percent by 2030, while French plans for a fossil fuel surcharge set off the “yellow vests” street protests.

Even in Norway, which leads the world in electric car adoption, Oslo is introducing fees for charging and looking at ways to avoid expensive grid upgrades.

“Positive stimulation is always better than negative sanctions,” Ms. Vurst said.

She said Rotterdam program participants had responded well to small rewards, such as a discount pass for local attractions, as well as from the simple reminder to switch.

A financial incentive to run hybrids on electricity is theoretically built in, as electricity is cheaper than petrol per kilometer traveled.

Vice Mayor Bonte said Rotterdam views hybrids as a bridge to mass adoption of electric vehicles sometime in the mid 2020s as prices fall and charging infrastructure improves.

The city has granted a charging station concession to Engie, with the French company agreeing to install one public charging pole for each electric or hybrid vehicle owner that requests one — 4,000 so far, in a city of 600,000 people, though there are more in private buildings and parking garages.

But there’s a long way to go.

According to EV-Volumes.com, a data provider which tallies information from national registries, the number of vehicles capable of driving electrically on electric engines across Europe grew by 33 percent in 2018, split between 181,000 plug in hybrid vehicles and 210,000 electric-only vehicles, together making up about 1.5 percent of total new car sales.

In Rotterdam, Mr. Hosli said he enjoys the challenge of trying to find charging stations and using up his electric battery as often as he can.

Statistics on his app show he fills up with gas as little as possible, according to Ms. Vurst.

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The electric pitch from Porsche: This car recharges fast

Porsche is giving away 1,000 free kilowatt hours with ElectriCity America for anyone buying a new E-Tron. General Motors Co.’s Chevy Bolt EV comes with a card for ChargePoint stations, though the driver has to foot the bill. Tesla is also moving toward a pay-for-use model after Teslas will no longer be eligible for federal tax credits.

In addition to the network of 100 highway fast-charging stations that are going to be installed by July 1, another 120 Porsche dealerships will offer fast charging by early 2020. Porsche hasn’t disclosed how much of its after this year, whereas Porsche has a long way to go before worrying about the cap of 200,000 electric vehicles that triggers a phasing down of the incentive.

The company sold 57,202 units.

Still, he said, Porsche has to do it “comfort” potential buyers.

Driven by regulatory mandates and a profound sense of existential anxiety over Tesla’s market capitalization, auto makers are pouring billions into the battery-powered cars. Porsche will spend $6.8 billion by 2022 on electrification and has said more than half of its line-up will have a plug by 2025.

None of the ones I know are Porsche owners or actually interested in electric vehicles, he says. “These people are luxury owners that understand that’s the next wave of tech and that’s something coming, so they’re just getting in line.”

BLOOMBERG NEWS

Dan is part of a pack of luxury car owners that understand that’s the next wave of tech and that’s something coming, so they’re just getting in line.
Fuel efficiency standards to be modified to include electric vehicles, plug-in hybrids

JAPAN NEWS

The government intends to modify the fuel efficiency standards so that electric vehicles and plug-in hybrids will also be subject to tax assessments, the Yomiuri Shimbun has learned.

It hopes that by establishing environmental standards that all models should meet, carmakers will be motivated to develop more EVs and other environmentally-friendly vehicles, sources said.

The move will likely affect how car taxes are calculated. For this reason, automakers are expected to compete fiercely to develop new models that can meet the envisaged criteria.

The government set the current standards against global auto makers to achieve fuel efficiency goals, as part of measures to improve environmental performance, calling for high standards of production rates.

The government plans to set higher fuel efficiency levels for all vehicles to meet the standards. Though many automakers already meet that criteria, the government plans to set higher fuel efficiency levels for all standards by a predetermined fiscal year.

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The fuel efficiency standards are also used in deciding the amount of taxes that owners pay for their cars. They pay less when their cars have better fuel efficiency. This applies to such tax systems as the eco-car tax break, which reduces the automobile weight tax, and the environmental performance tax system, which will be imposed on vehicle purchases from October.

Under the eco-car tax break and environmental performance tax system, all EV and PHV models are exempt from taxes. Under the new standards, such models will be required to meet even higher environmental criteria. EV and PHVs will likely be strictly divided by level of performance when the new standards are applied to determine tax reduction rates.

Meanwhile, it is also possible that the new fuel efficiency standards will be applied to the automobile tax, the rate of which changes depend on the amount of engine displacement. Currently, zero-exhaust EVs are in the same category as models classified as emitting the lowest amount of exhaust.

Associated press

At its and some envelope many of America's roads this spring after discussions with the Environmental Protection Agency, the government set the new fuel efficiency standards for 2020. In fiscal 2016, EVs and PHVs in fiscal 2017 were sold at 60.3 million units, which is double the amount sold in fiscal 2015. The figures such as one calculates the amount of electricity required to drive a distance of 17 miles or so.

Some new 2019 vehicles of this type are on sale now. Just as the new 2019 Toyota Prius PHV during a press conference revealing the Prius PHV plug-in hybrid in Tokyo, Toyota revamped its plug-in hybrid with a longer range and quicker charging, including from a regular home plug.

The fuel efficiency standards to be modified to include electric vehicles, plug-in hybrids

Associated Press

Energy secretary Rick Perdue has been administered the fuel-sipping leader for many of America's roads this spring after discussions with the Environmental Protection Agency, the government set the new fuel efficiency standards for 2020. In fiscal 2016, EVs and PHVs in fiscal 2017 were sold at 60.3 million units, which is double the amount sold in fiscal 2015. The figures such as one calculates the amount of electricity required to drive a distance of 17 miles or so.

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Ford unveils its most powerful Mustang yet

Ford Motor Co. has unveiled the most powerful factory-produced Mustang the company has ever made. The new Shelby GT500 has a supercharged V8 engine that will produce more than 700 horsepower.

More testing and validation needs to be done before an exact horsepower figure can be announced, the company said at the North American International Auto Show in Detroit last month. What we do know is that it will have more power than the $450,000 Ford GT supercar, which has 647 horsepower, and it will be capable of going from zero to 60 miles an hour in a little over three seconds.

Power from the car's 5.2-liter aluminum engine will go through a seven-speed dual-clutch automatic transmission similar to the type used in the Ford GT. Dual-clutch transmissions provide a more direct transfer of power to the wheels than ordinary automatic transmissions and can shift gears much more quickly. There's no manual transmission offered in this car, said Jim Owen, Ford Performance marketing manager, because the automatic can get much more performance from the engine than any human shifting gears could. The transmission was engineered specifically for this car.

The first Shelby GT500 appeared in 1967. That car had half the horsepower of the new Shelby. Shelby Mustangs are considered among the most desirable American performance cars in the world. A 1967 Shelby GT500 Super Snake recently sold at a Mecum classic car auction in Florida for $2.2 million.

The most recent Ford-produced Shelby GT500 before this one, which went out of production in 2015, produced 662 horsepower from a 5.8-liter V8 engine. Ford has a complicated but fruitful relationship with the Las Vegas-based Shelby American company. Shelby Mustangs were originally made by Shelby using Mustangs supplied by Ford as a starting point. Shelby still does these sort of performance conversions. In fact, there are already Shelby Mustangs, such as the Shelby-produced Super Snake, with over 700 horsepower. This one, though, will be the most powerful ever produced by Ford Motor Co. itself.

Nissan gives a glimpse of future electric cars

Nissan makes the best-selling electric car in the world to date. Over 380,000 Nissan Leafs have been sold, and that model is now in its second generation. But the Leaf remains Nissan's only widely available electric car.

Nissan has announced plans for eight new electric models by 2022. The automaker later unveiled the Nissan IMx concept car, which, according to Nissan North American Chairman Dennis Le Vot, offered a look at what Nissan plans beyond 2022. Nissan describes the IMx, which debuted at the North American International Auto Show in Detroit last month, as an "evolved sports sedan." It has plenty of concept car clichés — like structurally challenging center-opening doors, an impractical rectangular steering wheel, and seats that look like office chairs — features that will almost certainly not appear on any production model. While the car gives a sense of what designers and engineers are working toward. As described by Nissan, the IMx has two electric motors producing a total of 481 horsepower and fully autonomous driving capabilities.

It has what Nissan calls 2+1+2 seating. The numerical name plays off of the 2+2 seating! used to describe the interior layout of cars like the Porsche 911 with two adults-sized seats up front and two child-sized seats in the back. The IMx has two full-sized seats up front and another in the center behind them. There are also two slim folding back seats — one on each side — allowing the car to seat five, if needed.

When the IMx is running in "autonomous mode" the steering wheel retracts into the dashboard and the front seats rotate toward one another, allowing the occupants to converse more naturally. Nissan says the concept has a 3D augmented reality system it calls Invisi-Visible. It relies on a system of sensors and cameras to detect things the driver might not be able to see, such as cars around corners or information about traffic up ahead. Drivers can have a human-like 3D avatar give them directions, offer advice, or just talk. The avatar can be made to look like a family member or friend for company.
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Boeing flying car lifts off in race to revolutionize travel, delivery services

SEATTLE—Boeing Co. said its flying car prototype hovered briefly in the air during a recent inaugural test flight, a small but significant step as the world’s largest plane maker prepares to revolutionize urban transportation and parcel delivery services.

Boeing is competing with Airbus and numerous other firms to introduce small self-flying vehicles capable of vertical takeoff and landing. The investments, fueled by leaps in autonomous technology as much as frustration with road congestion, could change the face of the aerospace industry within the next decade.

Boeing’s 30-foot-long vehicle — part helicopter, part drone, and part fixed-wing plane — lifted a few feet off the ground and made a soft landing after less than a minute of being airborne at an airport in Manassas, Va., Boeing said.

Future flights will test forward, wing-borne flight. “This is what revolution looks like, and it’s because of autonomy,” said John Langford, president and chief executive officer of Boeing subsidiary Aurora Flight Sciences. Major hurdles to Boeing’s vision of “low-stress” mobility — as it is called in the company’s marketing materials — include sorting out numerous critical safety and regulatory issues to meld traditional roadway traffic with fleets of flying cars.

Boeing is working with start-up SparkCognition Inc and the U.S. Federal Aviation Administration to develop a traffic-management system for three-dimensional highways, as well as the regulatory framework that will allow waves of autonomous vehicles to zip safely around buildings, the company has said.

With Aurora, Boeing is also working on Uber Technologies’ UberAIR service for flights that are planned to be available for order via smartphones around 2023. Boeing is looking to achieve a range of 50 miles with two flying car variants capable of carrying two and four passengers each. Tests are planned for later this year on a package-hauling version that can lift up to 500 pounds.

Competitors range from Airbus, which says it has already conducted numerous flying vehicle test flights, to Volocopter, which has tested drone taxis that resemble a small helicopter powered by 18 rotors, and Aeromobil, with a stretch- dimension concept that can turn into a fixed-wing aircraft.

Vertical Aerospace, which completed a flight test last year, aims to offer short intra-city flights in the coming years with a piloted aircraft capable of carrying multiple passengers.

“The future of mobility — moving goods, moving cars — moving people — that future is happening now and it’s going to accelerate over the next five years and ramp up even more beyond that,” Dennis Muilenburg, Boeing’s president, chairman and CEO, told a panel at the World Economic Forum in Davos, Switzerland.
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