



Elbilsutvecklingen i Norge och
påverkan på luftkvalitet

Från Think till Tesla



Daniel Molin
Seniorrådgiver transport

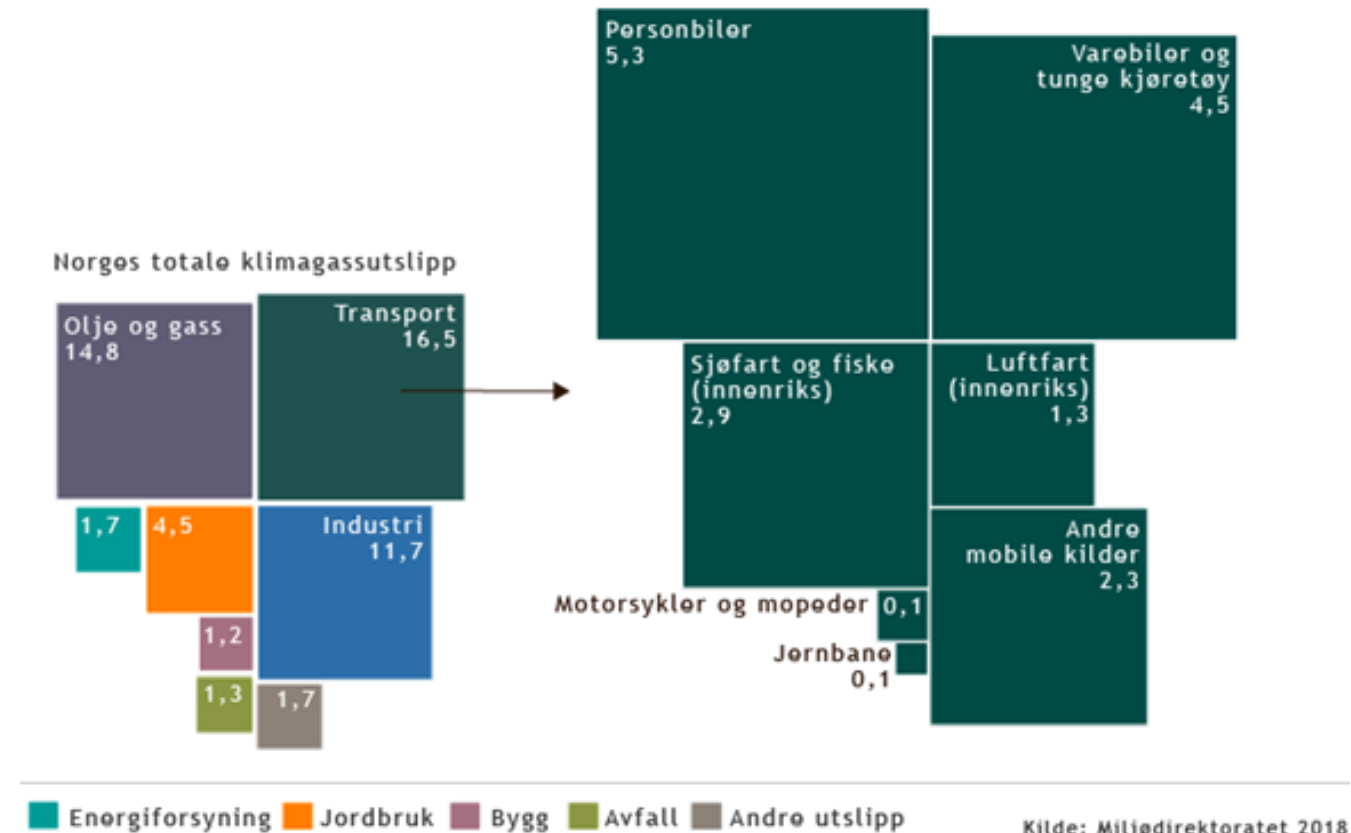


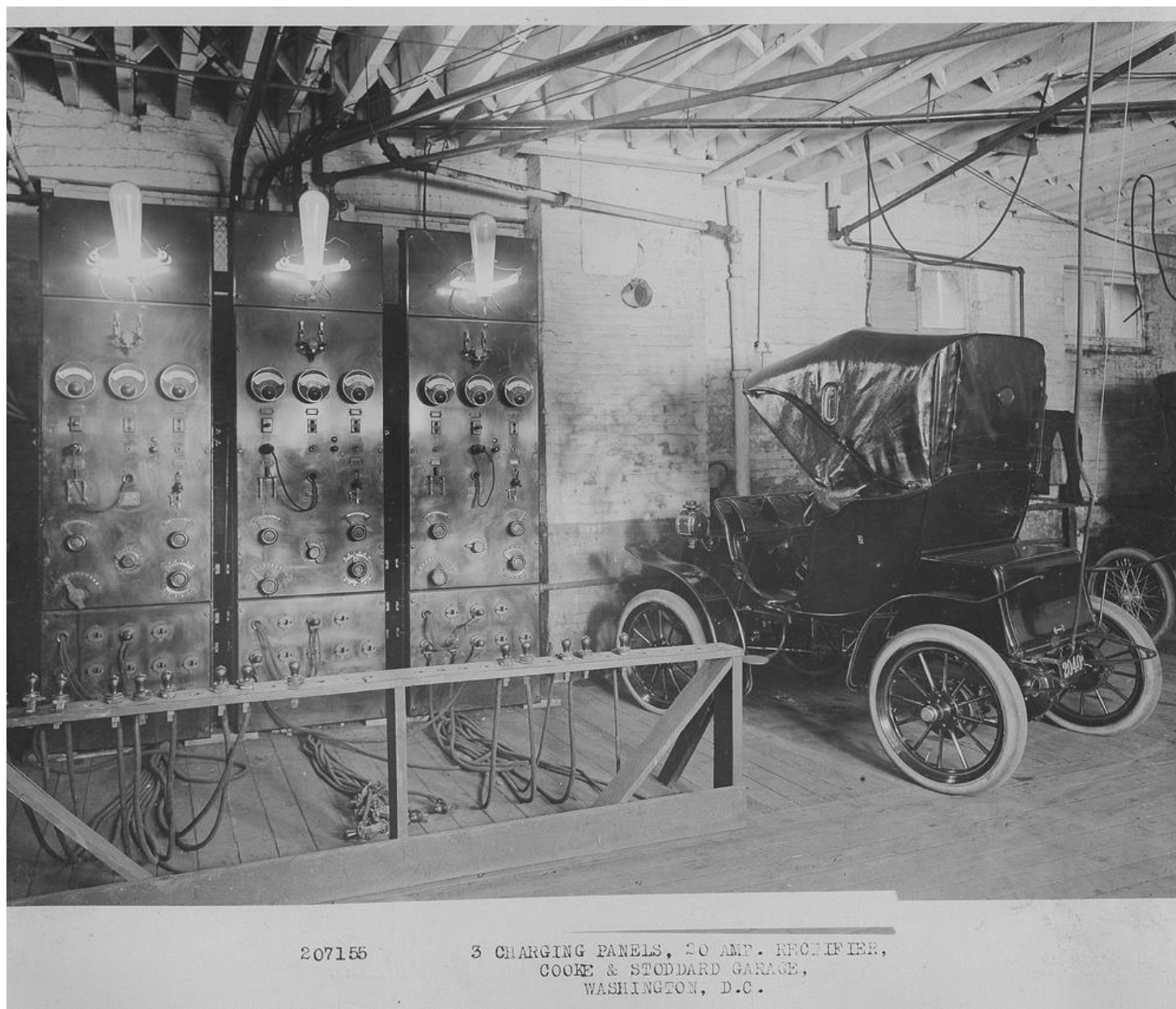
- 1) (El)bilens historia
- 2) Situation och politik i Norge
- 3) Elbil och luftkvalitet
- 4) Alternativa teknologier



Utslipp av klimagasser fra transport i 2016

Utslipp til luft (millioner tonn CO₂-ekvivalenter)





207155

3 CHARGING PANELS, 20 AMP. RECTIFIER,
COOKE & STODDARD GARAGE,
WASHINGTON, D.C.

<http://www.flickr.com/photos/gereports/4993249779/sizes/l/in/photostream/>





<https://www.newyorker.com/magazine/2009/11/16/hosed>











VOLVO MULTI-FUEL

BIOGAS
NATURAL GAS
HYDROGEN
ETHANOL
PETROL





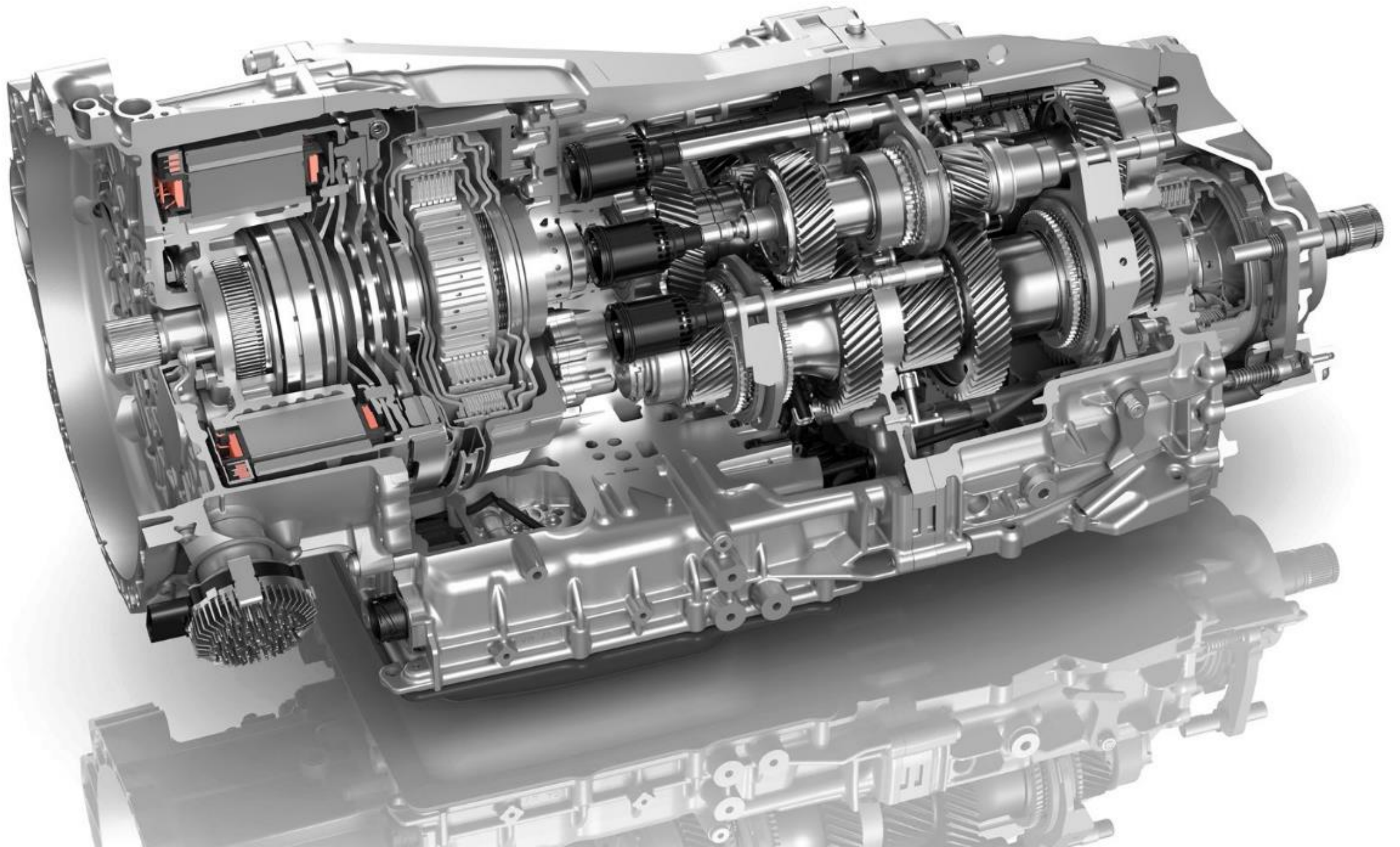
FITH OBSERVATORY

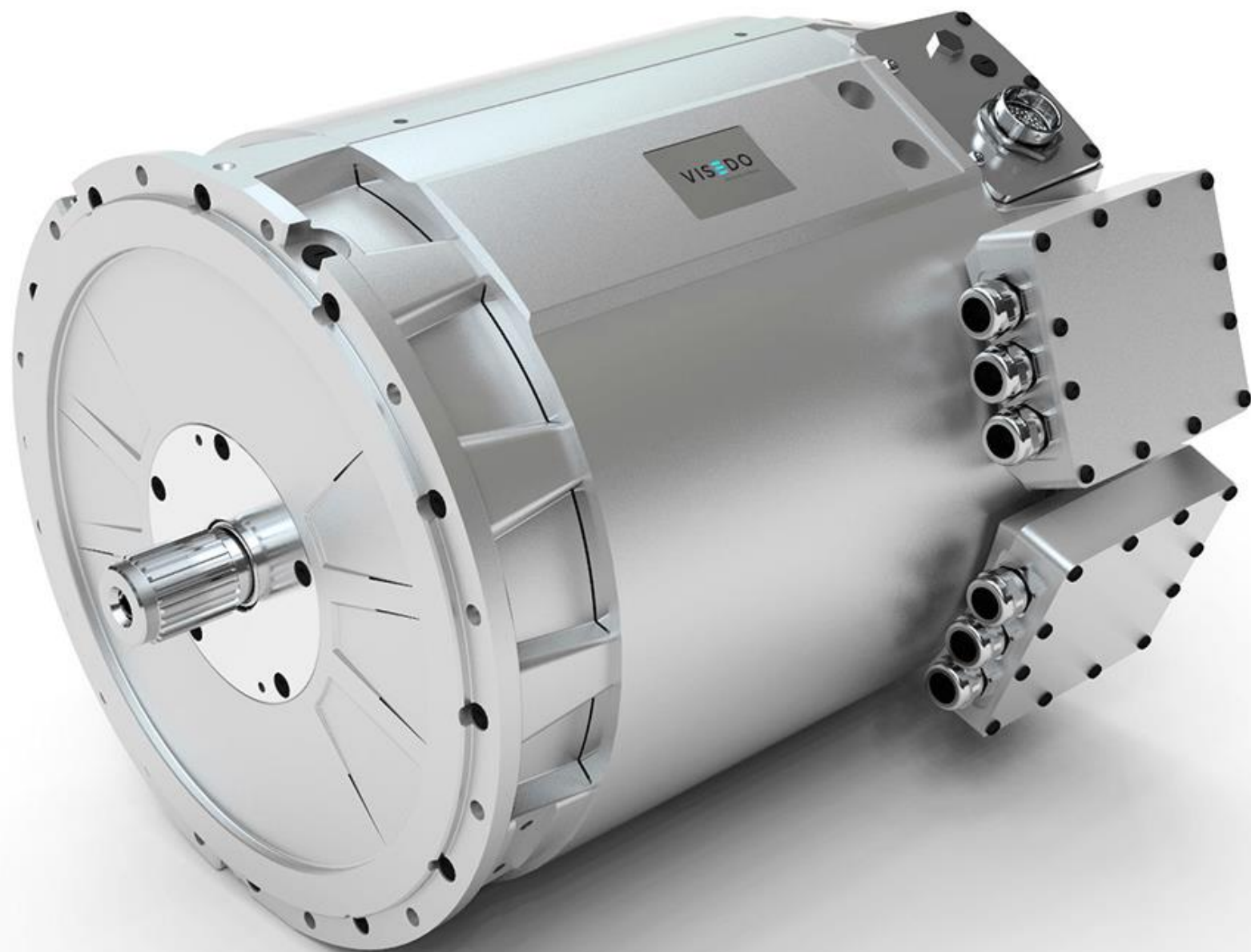
MITSUBISHI MOTORS

i-MiEV
MITSUBISHI INNOVATIVE ELECTRIC VEHICLE







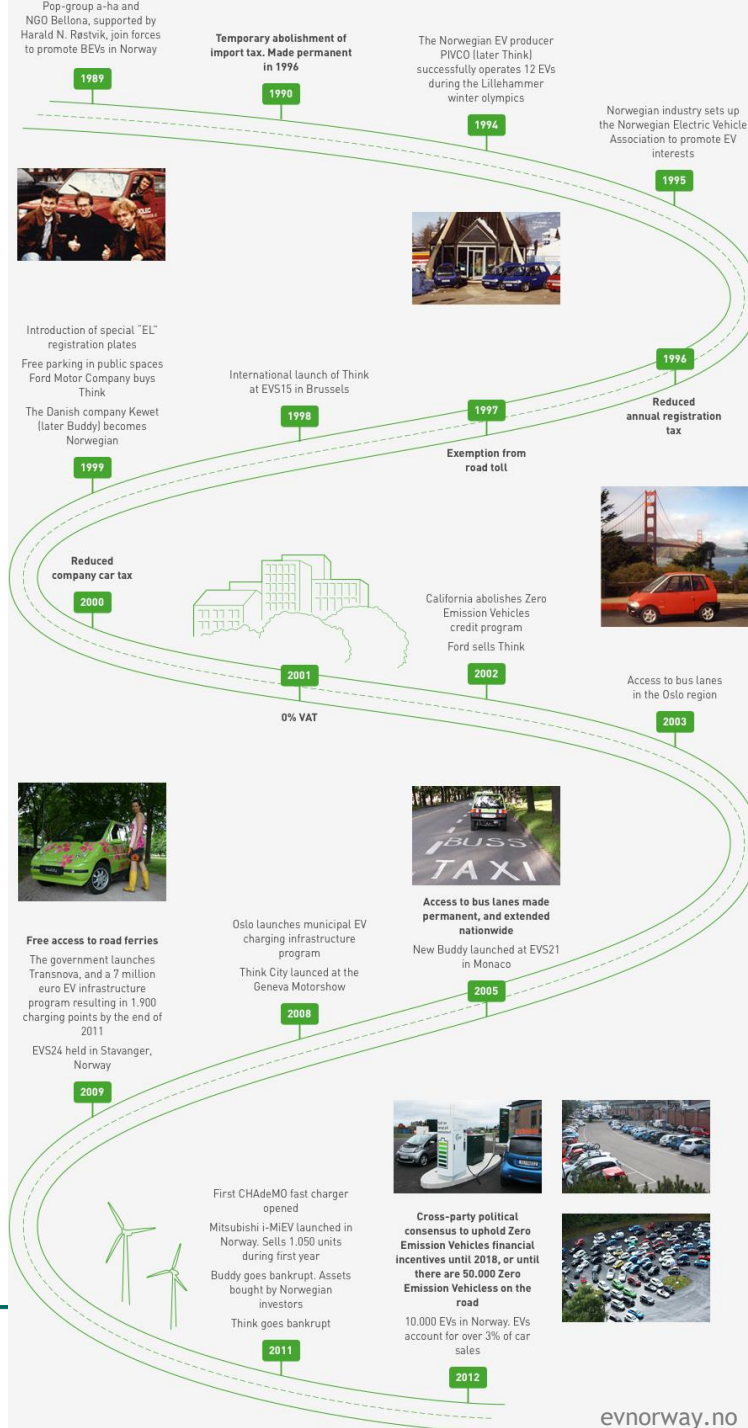


Tesla Model X P90D Ludicrous vs Ferrari F430 Drag Racing and Roll Racing



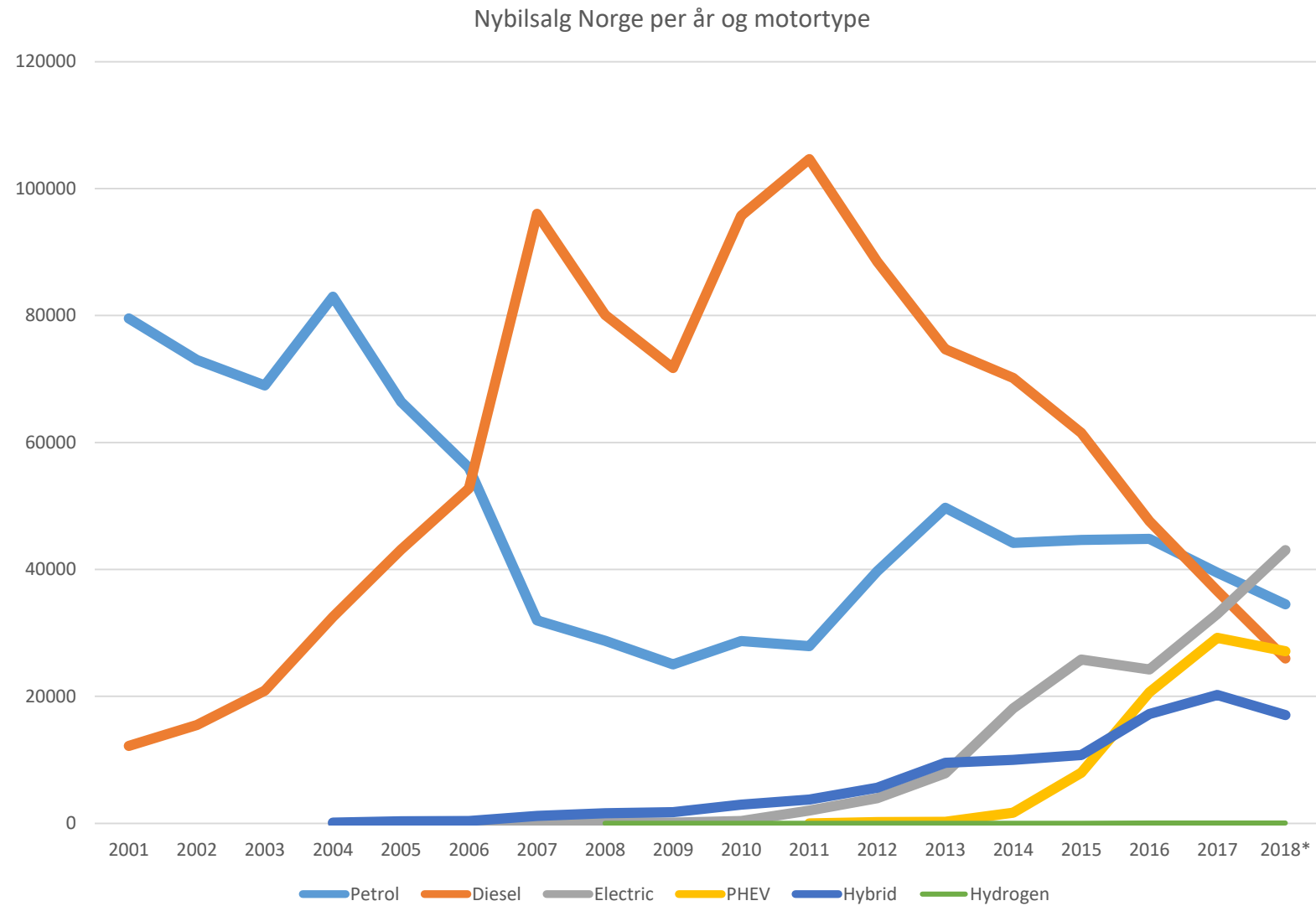
vs






	Kr	75
	Kr	25
	Kr	0

Ikke offisiell skilt. Design @DanielMolin



FIRST FOR CAR NEWS AND REVIEWS

[HOME](#)
[CAR REVIEWS](#)
[CAR NEWS](#)
[VIDEO](#)
[OPINION](#)
[FEATURES](#)
[NEXT GEN AWARD](#)
[PARIS SHOW](#)
[NEWSLETTER](#)

FÅ HJÆLP TIL Å VELGE RETT HØYTRYKSVASKER

Kaldt- eller varmtvann, dieselrevet, stasjonær, mobil?

[LES MER HER](#)

Peugeot to halt diesel engine development as demand drops

Brand won't invest into diesel for now, instead waiting to see how the market changes and focusing on plug-in hybrids



by Lawrence Allan
3 October 2018

Peugeot is the latest brand to confirm it is halting development of diesel engines until the market stabilises, and it may remove them altogether if demand continues to fall.

The PSA Group's product director, Laurent Blanchet, told Autocar at the Paris motor show that the future of diesel is "uncertain" and that "we will have to see if the market is going to delete or give up on

HØYTRYKSVASKERE TIL SELV RENGJØFFESTE Varmtvannsvaskere til gode priser

JOBBERE SE DEM HER

Find an Autocar car review

Choose a make

Then a model

[SEARCH](#)

OUR VERDICT

Peugeot 508

Is Peugeot's rakish new Mondeo rival as good to drive as it is to look at?

Driven this week

Suzuki Swift Sport long-term review

The Japanese hot hatch is all grown up in terms of character, technology and...

6 NOVEMBER 2018 | FIRST DRIVE

och sköna reportage från bilvärlden direkt i din mejlbox.

Det som från början var ett militärfordon har med tiden blivit mer och mer av en...

Volvo slutar tillverka bilar med förbränningsmotorer

ANNONS: Klicka på Play för att fortsätta se videon

TESSIN

Investera i fastigheter

Bygg din portfölj med säkerställda fastighetslån

Läs mer →

Byggstartat bostadsprojekt för 65+

Volvo Cars tar, som första biltillverkare, ett historiskt steg in i framtiden.

Alla nya modeller som lanseras från 2019 och framåt kommer att i

[Sign in](#)

[News](#)
[Sport](#)
[Weather](#)
[Shop](#)
[Reel](#)
[Travel](#)
[Mor](#)

NEWS

[Home](#)
[Video](#)
[World](#)
[UK](#)
[Business](#)
[Tech](#)
[Science](#)
[Stories](#)
[Entertainment & Arts](#)

[World](#)
[Africa](#)
[Asia](#)
[Australia](#)
[Europe](#)
[Latin America](#)
[Middle East](#)
[US & Canada](#)

MIDTERM ELECTIONS

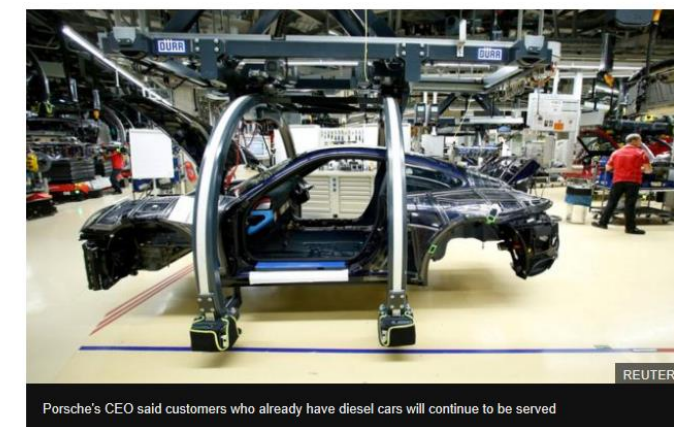
US midterms: what are the consequences of America

Porsche stops making diesel cars after VW emissions scandal

23 September 2018

[f](#) [t](#) [t](#) [e](#) [Share](#)

Diesel emissions scandal

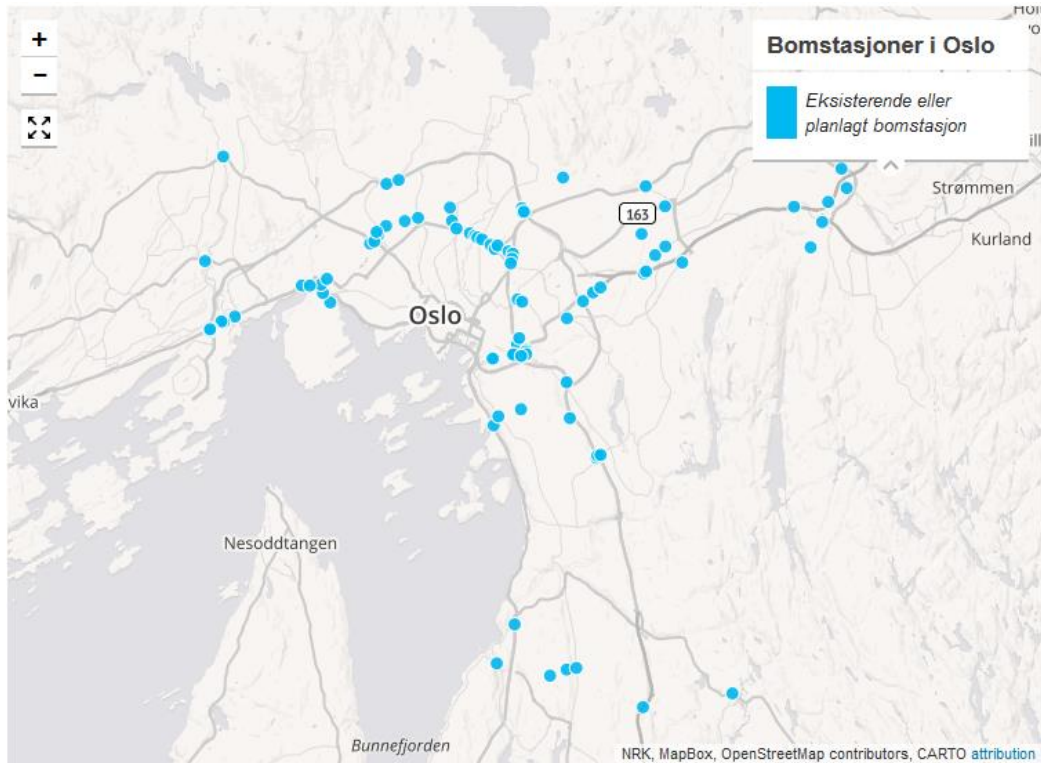


The German carmaker Porsche says it will stop making diesel cars, and concentrate on petrol, electric and hybrid engines instead.

It follows a 2015 scandal in which its parent company, Volkswagen, admitted it had cheated emissions tests for diesel engines.

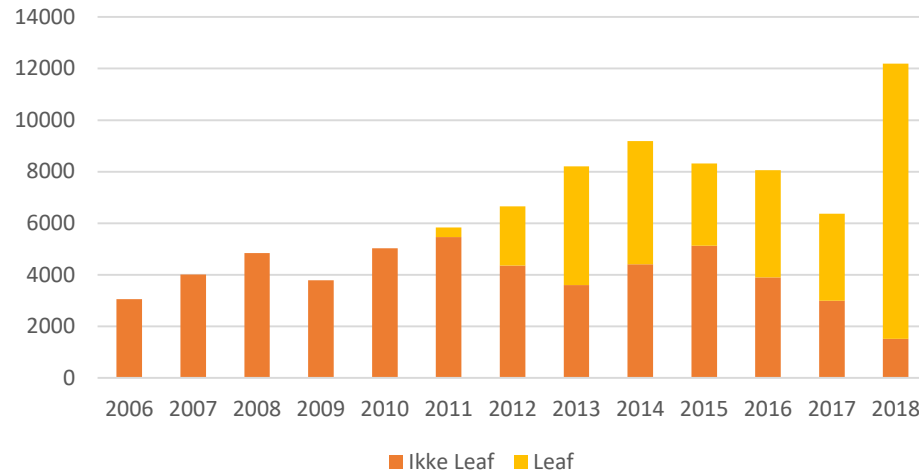
Miljødirektoratet.no

Nye bomstasjoner/soner

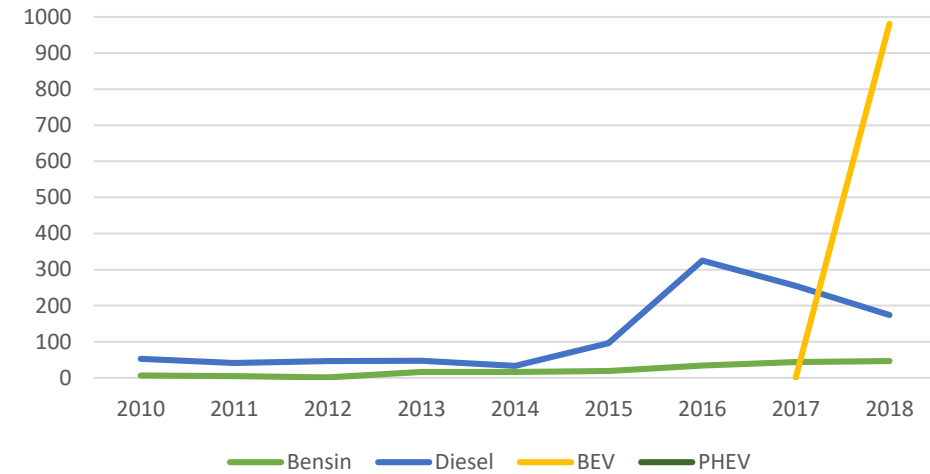




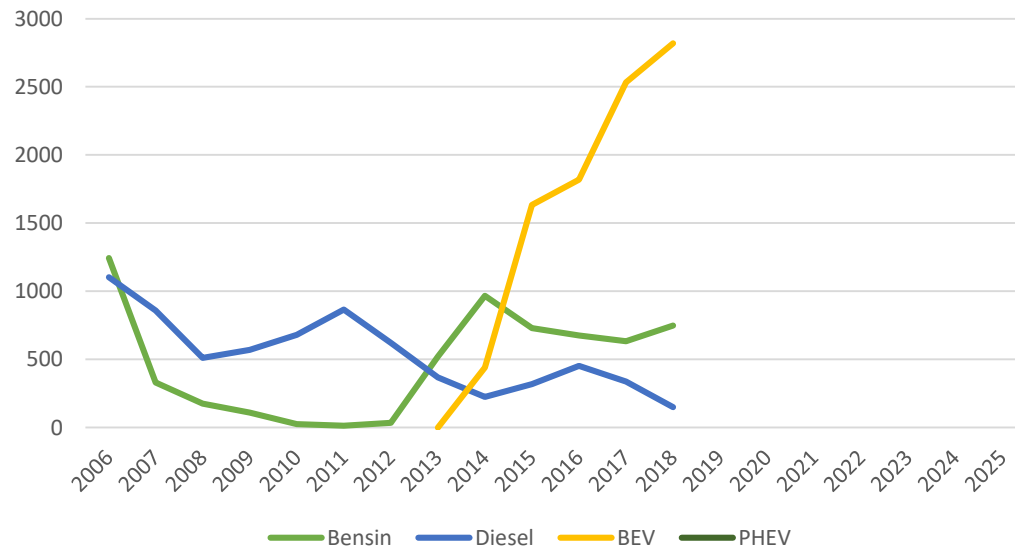
Nissan nybilsalg Norge per år



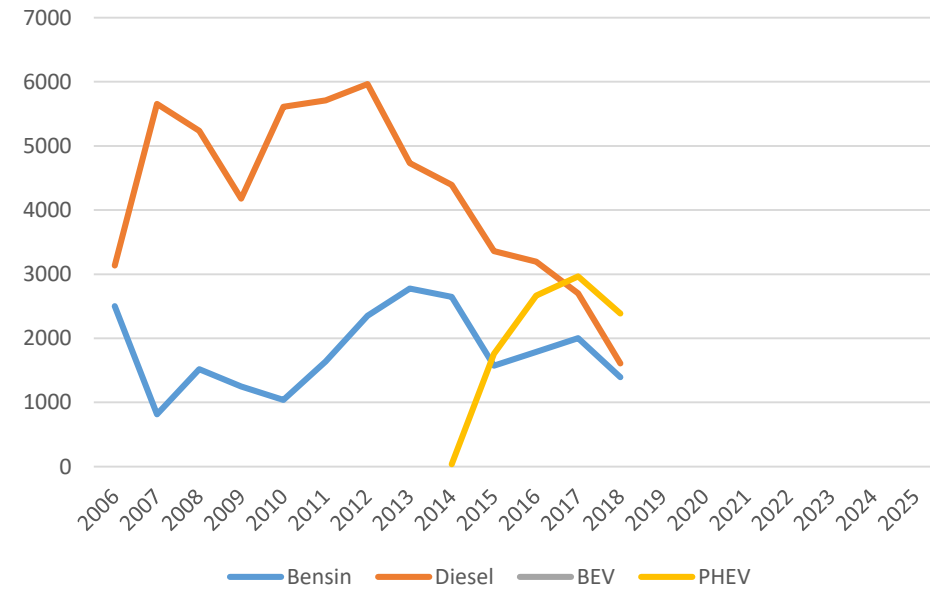
Jaguar, nybilsalg Norge



Renault nybilsalg per motortype



Audi, nybilsalg Norge per motortype



2018: eget estimat.

Versjon: 12/10/18

Miljødirektoratet

 DanielMolin



Tesla Model X



Tesla Model S



Opel Ampera-E



Hyundai Ioniq



Renault Zoe



Smart Fortwo



Audi e-tron



Jaguar I-Pace



Hyundai Kona



Nissan Leaf 2



Smart Forfour



KIA Soul (gen.2)



VW e-Up! (gen.2)



Nissan Leaf E-Plus



Peugeot 208



SEAT e-Mii



Skoda e-Citigo



Chevrolet Bolt crossover



BMW iX3



Mitsubishi eX



Jaguar XJ



Land Rover / Road Rover



Volvo (XC40)



Aston Martin RapidE



Lucid Air



Audi e-tron Sportback



Nissan Leaf E-Plus



Mercedes EQ A



Mazda



DS3 Crossback



SEAT e-Mii



Lynk 01



Skoda Vision E



Jaguar XJ



Porsche Taycan



Nissan CUV



VW I.D. Neo



Fisker eMotion



SEAT



Opel Corsa



Chevrolet Bolt crossover



Renault Twingo ZE



Rivian A1T



Polestar 3



Ford Mach 1



Peugeot 2008



Mercedes EQ S



Detroit Electric



VW I.D. Crozz



Tesla Model Y



Audi compact



BMW Mini



Bentley 6e



Honda Fit/Jazz



Renault Zoe (gen. 2)



Nio ES8



SsangYong Korando



SF Motors SF5



Opel Mokka X



Cherv E-TX



Aiways U5 Ion



Toyota



Citroen C4



Tesla Roadster 2



Minside



Audi e-tron - den første helelektriske SUV'en fra Audi.

Reserver din plass i køen her.

Reservationsbeløpet på kr 20.000, tilbakføres dersom du trekker din reservasjon eller blir trukket fra kjøpssum ved inngått kjøpskontrakt. Se vilkår for fullstendig informasjon.



OM KONSEPTBILEN

I MEDIA

VILKÅR OG BETINGELSER

Din Audi e-tron

Reserver din plass

Velg din forhandler

Fylke

-- Fylker

Fornavn

Mobil

☐ Jeg aksepterer betingelsene

Mercedes-Benz
Das Beste oder nichts.

Meny

Electric now has a Mercedes!

Reserver din EQC i dag!

EQ - Electric Intelligence by Mercedes-Benz.
Reservationsbeløp kr. 20.019,-

OM CONCEPT EQ

VILKÅR OG BETINGELSER

MOTTA NYHETSBREV OM EQ

ELECTRIC NOW HAS A MERCEDES. NYE EQC.

EQC hadde suksessfull verdenspremiere 4. september i Stockholm. Nå er den endelig klar for serieproduksjon. Med sitt sømløse, klare design fremhever EQC progressiv luksus. Med hensyn til kvalitet, sikkerhet og komfort, er EQC blant elbilene som og imponerer umiddelbart sammen med summen av dens attributter.

Fra 2019 vil Mercedes-Benz lansere 7 helelektriske EQ-modeller i rask rekkefølge.

Nye Mercedes-Benz EQC

Telefonnummer*

+47

Fornavn*

Etternavn*

Adresse

Postnummer*



RESERVER OG LAD OPP. NYE BMW iX3

Fremtiden er elektrisk, og med et vipps kan du være en del av den. Reserverer du din bil i dag, blir du en av de første som får levert den helelektriske BMW iX3. I tillegg til å gjøre oss reservationsbeløpet på 15 000 kroner, og sikre din plass i køen. Produksjonen av den nye BMW iX3 starter i 2020.

HOLD DEG OPPDATERT

RESERVER NÅ

OM BMW CONCEPT iX3

VILKÅR OG BETINGELSER

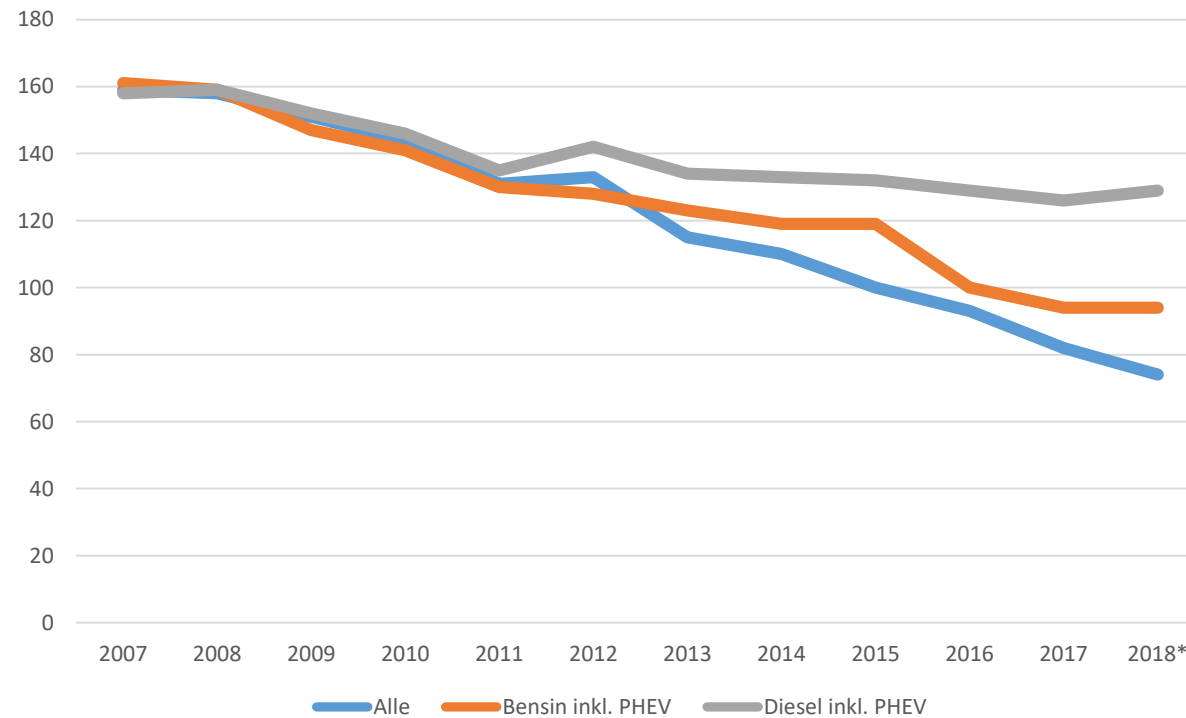
BMW logo

BMW logo

BMW logo



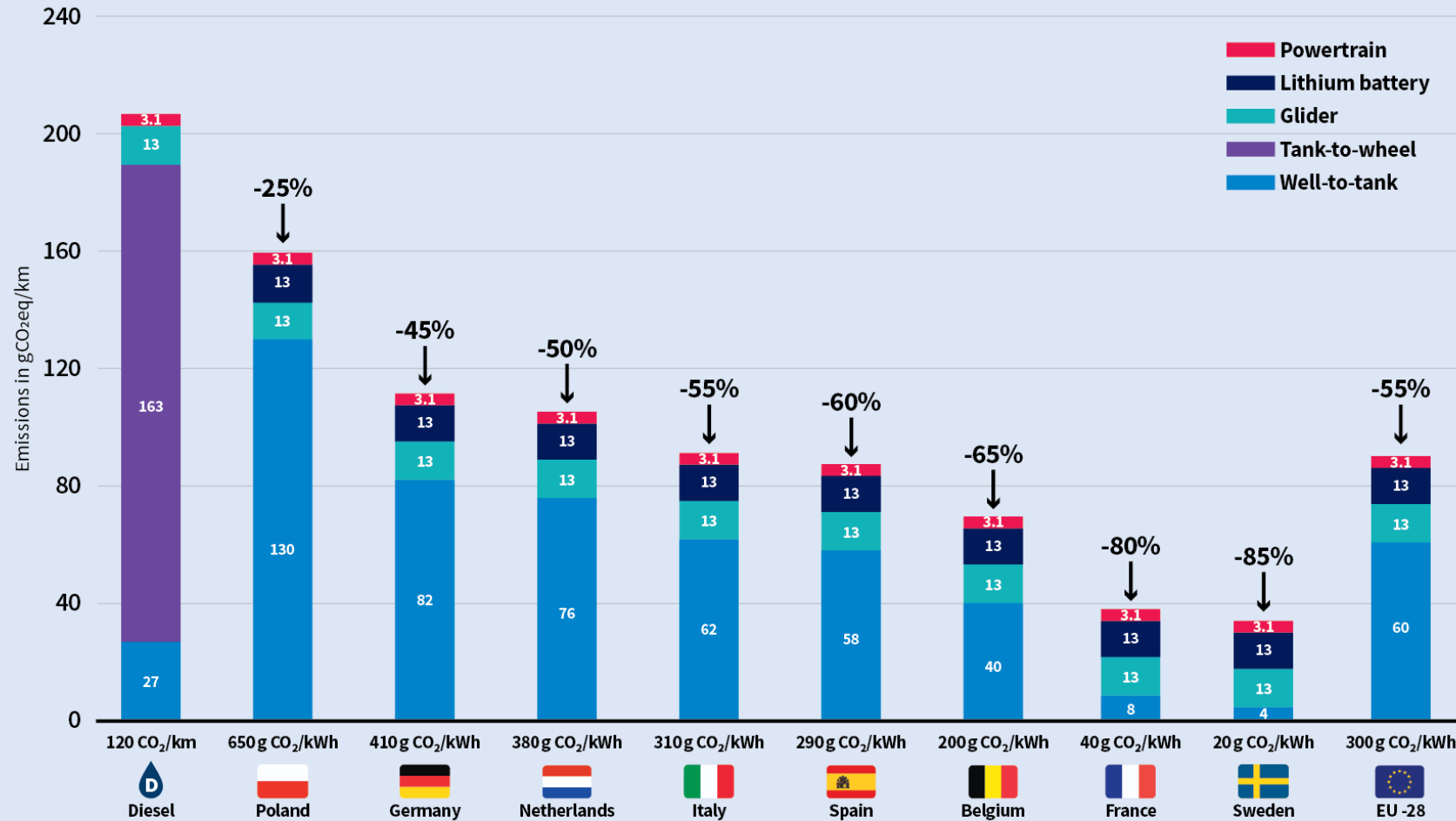
Gjennomsnittlig utslipp CO₂/km nye biler







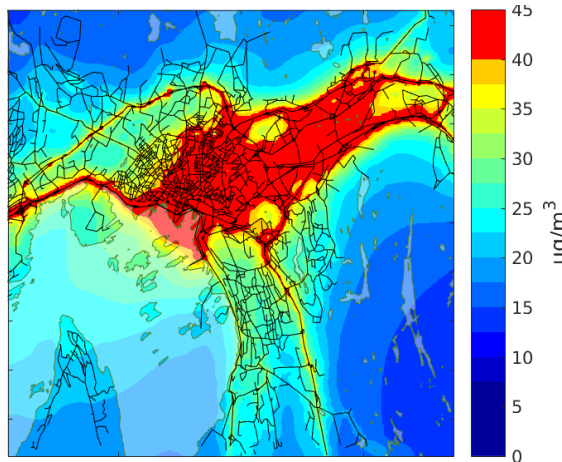
Electric vehicles' climate impact in different energy mixes





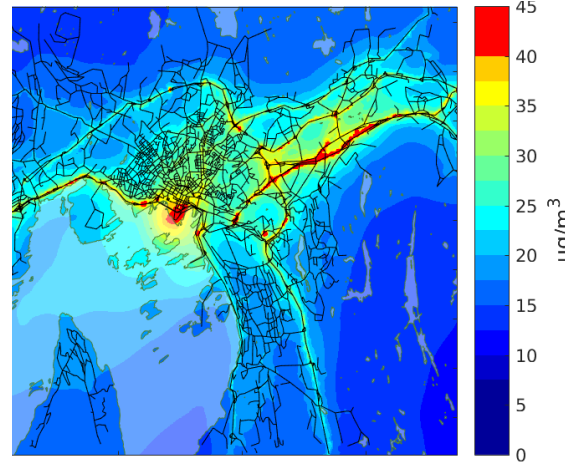
Handlingsplaner; eksempel Oslo.

Today's situation, 2014



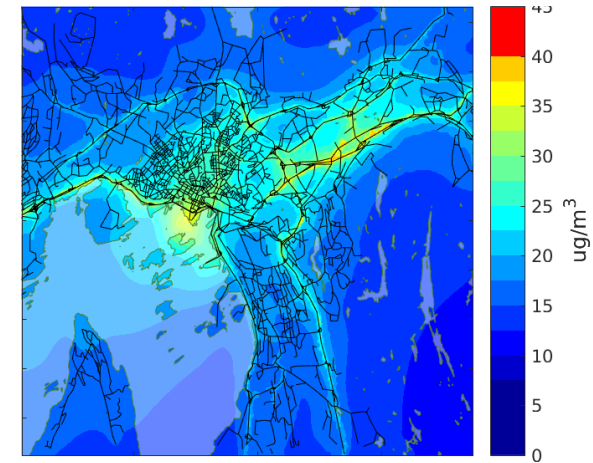
216 500 / 56 400

Reference situation, 2020



1 400 / 200

Action plan, 2020



0 / 0

Under figuren: antall mennesker eksponert for NO₂-nivåer over grenseverdiene (>årsgjennomsnitt over 40µg/m³/>18 timer over 200µg/m³)



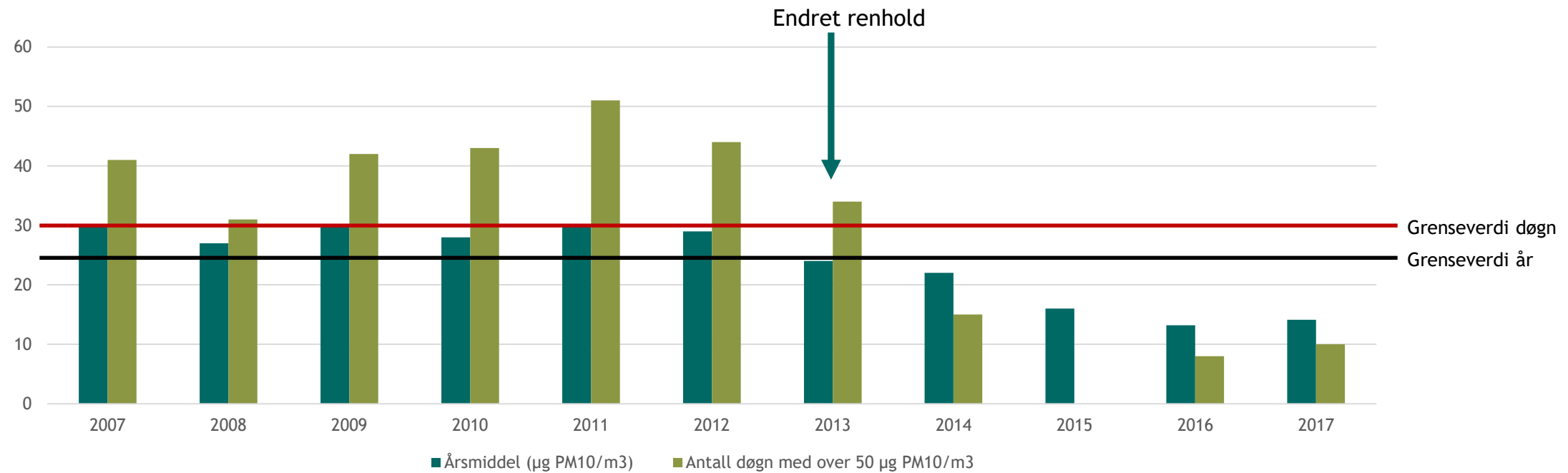
Handlingsplaner; eksempel Trondheim.



Styrket veirenhold har redusert PM-konsentrasjonene. Kilde: [Statens vegvesens rapport nr. 348, 2018.](#)



Endret renhold: effekt på luftkvaliteten



Oslo får 70 nye elbusser

Kollektivselskapet Ruter bestiller 70 nye elektriske busser. Bussene fases inn i drift fra neste vår.



Oslo skal få 70 nye elbusser i 2019. Her lades en elbuss på endeholdeplassen Mortensrud på linje 74 i Oslo.

FOTO: UNIBUSS

NTB og E24

(NTB) Publisert: 18:44 - 12.04.2018

Oslo fikk sine seks første elektriske busser i november i fjor. Nå er det klart at det vil komme 70 nye elbusser på veiene i Oslo fra våren 2019.



NESODDEN-FERGENE - BATTERIER - ELFERGER

Nesodden-fergene blir elektriske i løpet av 2019

Norled bygger om fergene. Neste år erstattes LNG-motorer av batteridrift.

TORE STENSULD MARITIM 29. OKT. 2018 - 16:45

f Facebook 747

t Twitter

in LinkedIn



Gjør varmekamera til «allemannseie»

ANNONSE

TOOLS

Kollektivselskapet Ruter og Norled er blitt enige om at de tre Nesodden-fergene skal bli helelektriske.

TU JOBB

ANNONSE

Plan- og bygningssaker

Oslo kommune, Plan- og bygnin...
Overvannskoordinator -
arkitektur- og planfagkompe
Oslo

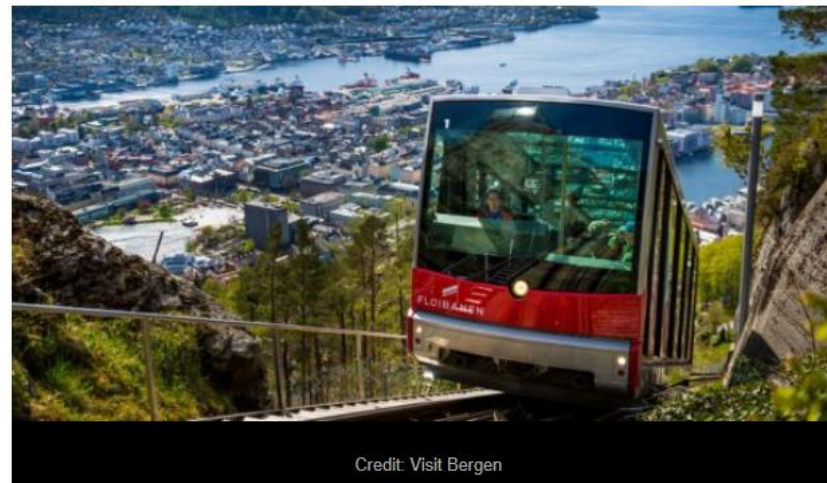


Air Quality In Bergen, Norway's EV Capitol, Better Than At Any Time Since 2003



October 22nd, 2018 by [Steve Hanley](#)

Set at the foot of seven mountains, the city of Bergen has always attracted Norwegians who wanted to escape the hustle and bustle of Oslo. Bergen is known for its scenic beauty but it is also known for something less pleasant — smog. Like Los Angeles, temperature inversions often act like a lid over the city, trapping all emissions from the cars and buildings below.



Credit: Visit Bergen

Part of those emissions come from gasoline- and diesel-powered vehicles and part come from fireplaces and wood stoves. It's not always good to burn Norwegian wood. But with an increase in electric cars and recent **bans on old wood furnaces**, the air quality in Bergen is now the best it has been in the last 15 years.

Norway has gone all in on electric cars. Last month, more than **60% of new cars** sold in the country were electric, thanks in large measure to aggressive incentives put in place by the government. Bergen has gone even further, offering free EV charging and preferential parking for EV drivers in the city's center together with lower tolls and access to dedicated commuter lanes. As a result, Bergen was named the **electric car capitol of Norway** in 2018.



Ladbare hybrider som blindspor



In a statement, BMW said: “The Range Extender i3 will cease production and we will only sell the pure-electric version going forward. With the gains in pure-electric range, together with the increasing availability of rapid charging facilities we believe the customer demand is shifting to an pure-electric model.”

[autocar.co.uk](https://www.autocar.co.uk)



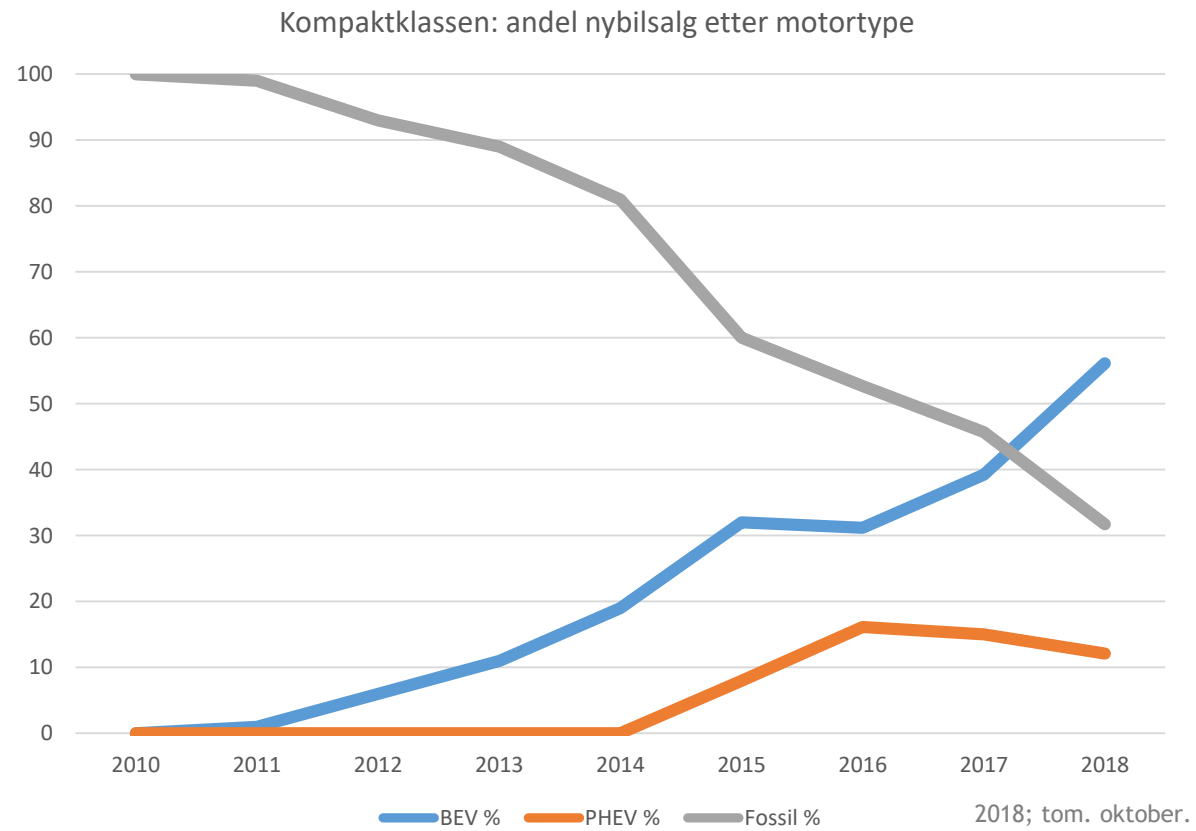
Systemeffekten när både elmotorn och bensinmotorn ger fullt är 185 kW (252 hästkrafter) men den kan tillfälligt "boostas" till 215 kW (292 hästkrafter) med ett särskilt läge.

[mestmotor.se](https://www.mestmotor.se)

<https://www.autocar.co.uk/car-news/new-cars/bmw-cease-production-i3-range-extender>

<https://www.mestmotor.se/recharge/artiklar/nyheter/20181002/bmw-3-serie-kommer-som-laddhybrid-med-langre-rackvidd/>





Uno 

H	8.99
D	13.29
95	14.29







"Does your car have any idea why my car pulled it over?"



Tack!