

## **Electrical driving with Trailers**





## But why, mister Bond?





### But why, mister Bond



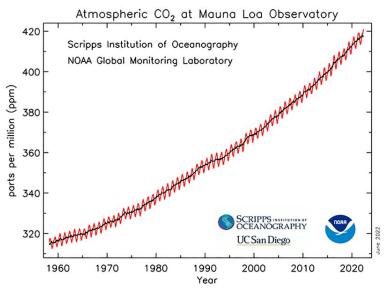


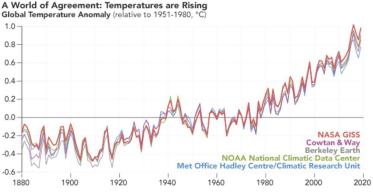
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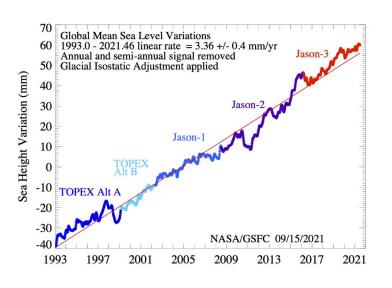
25/8-2022



### **But why**

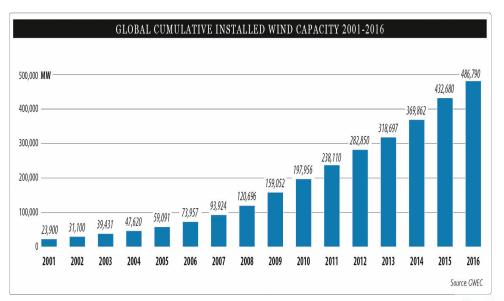








#### Going electric



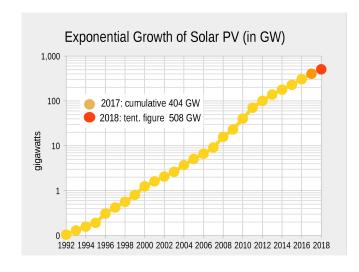
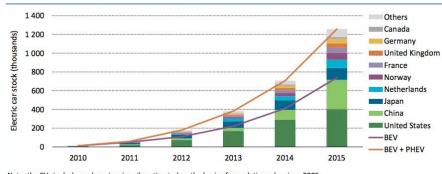


Figure 1 • Evolution of the global electric car stock, 2010-15



Note: the EV stock shown here is primarily estimated on the basis of cumulative sales since 2005.



#### Who I am

- Born in 1965 on a small island(Ærø) with nearly no thermals
- Start gliding in 1984
- Instructor 1993
- Mechanical Engineer 1993
- Instructor 1993
- Biggest task 700+ km
- Danish champion 2019 in 15m
- Electrical Car owner since 2020
- Proud owner of a Ventus 2ct 15/18m
- First Danish citizen starting from danish ground in an electrical plane "Electrical Aviation Day"
- 7000+ km with trailer and a electrical car
- Next step electrical glider?



## Electrical "plane" experience

- Onix
- **AS-34**
- **B13E**
- Discus 2FES
- LAK-17C FES
- ASG-32EL









### Why did i buy an electrical car?

- Economics.
- Reduce CO2.

- I want it.
- I want it.
- I want it.











#### Which car to select?

#### One requirement:

Must be able to tow 1000 kg (Ventus 2ct)

#### Possibilities (2020):

- Audi E-tron
- Tesla X
- Mercedes EQC
- Tesla 3





#### Why tesla 3 LR

- Cheapest car that could tow 1000 kg.
- Best aerodynamics
- Fastest charger
- Best charging network
- Most experienced electrical car manufacture
- Most modern car
- It's a 2000 kg Ipad

#### Why not tesla 3

- It is best for 2 persons.
- The hook system
- To strange for grown up people
- Buy a Tesla Y



# Driving an electrical car long distance is like flying a task in a glider :-)







#### Experience long distance driving with Tesla 3

#### Pro:

- Very stabil.
- Easy Overtaking.
- Good charing network



#### Con:

- It's a mess when charging
- Charging network is often to far away from the autobahn



#### Tesla 3 as a Glider Competition Car

#### Pro:

- Legal aircondition on the grid
- Fantastic to tow gliders on the airfield
- Easy to keep an eye on the glider while towing
- Easy to get on the scale

#### Con:

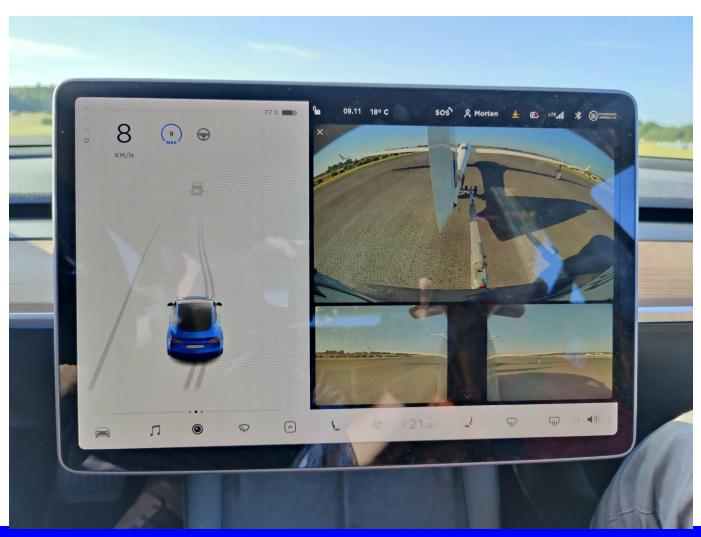
- A little too low to drive on fields.
- Difficult to get tail dolly, wingdolly and towbar into the car.
- Limited space on the backseat.



#### Longest trip...



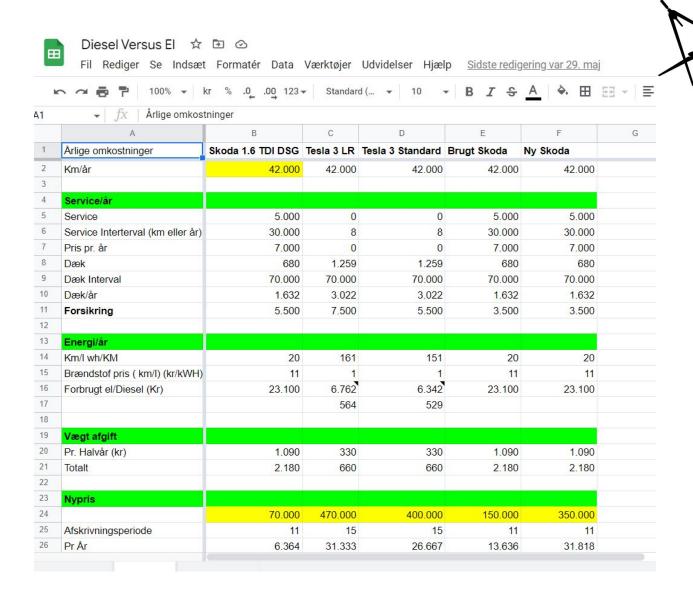














#### How to get the best average speed?

- Start with nearly maximum SOC
- Good aerodynamic
- Good charging network
- High charging speed
- No waiting time
- Get to charger with low SOC
- Arrive at a place with destination charger

Drive the car like you would like fly aggressively in a competition

- Start the task with maximum height
- Good aerodynamic
- Find the good thermals
- Good climb
- Center the thermals fast
- Low finish height





## It is still a good idea?:





190 wh/km



## Any questions?



