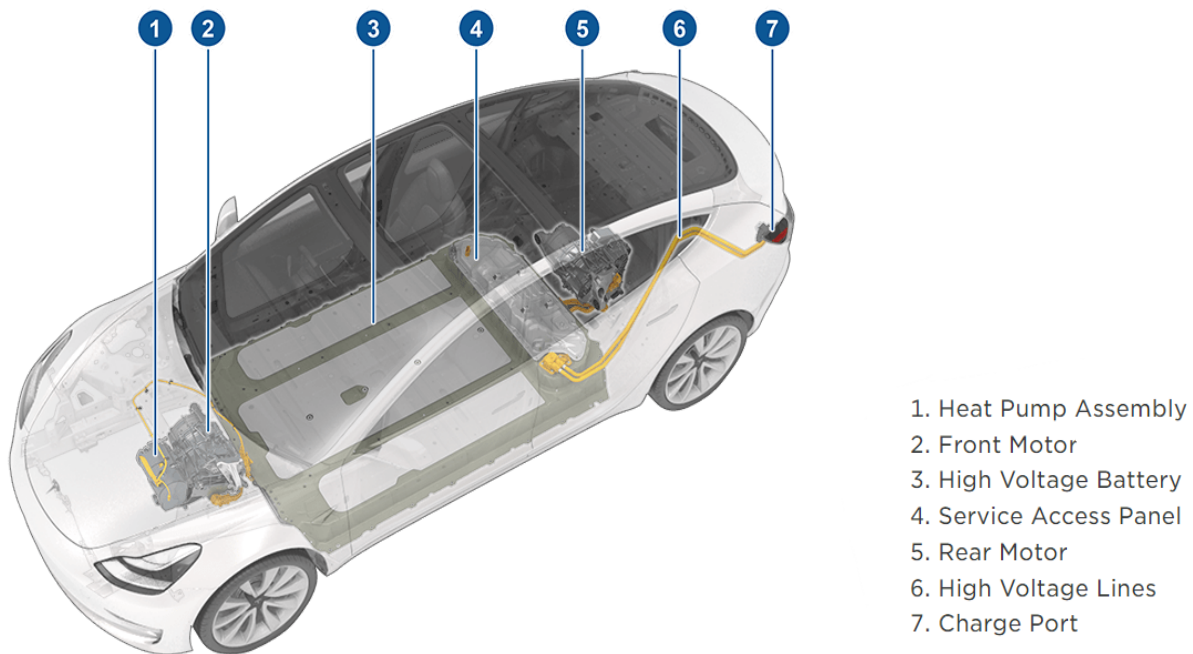


AIR FRICTION POWERED DYNAMO TO CHARGE ELECTRIC CAR

Imagine you are a passenger in a car, and you would like to open your window to get some air. The wind flow is very high as it is a friction created by the air, to be exact, the air opposes the car with huge force in the opposite direction of the car moving. We know that wind mill are used to generate current from the flow of wind, so why not use this air friction to charge our electric car.

Most of the electric cars nowadays have their front deck free, as there is no engine, for ex:



The 1 & 2 are not the engine, they are the heat pump and one of the motors of this car, and it is placed below the front hood of the car, so the frunk (front trunk) is free.

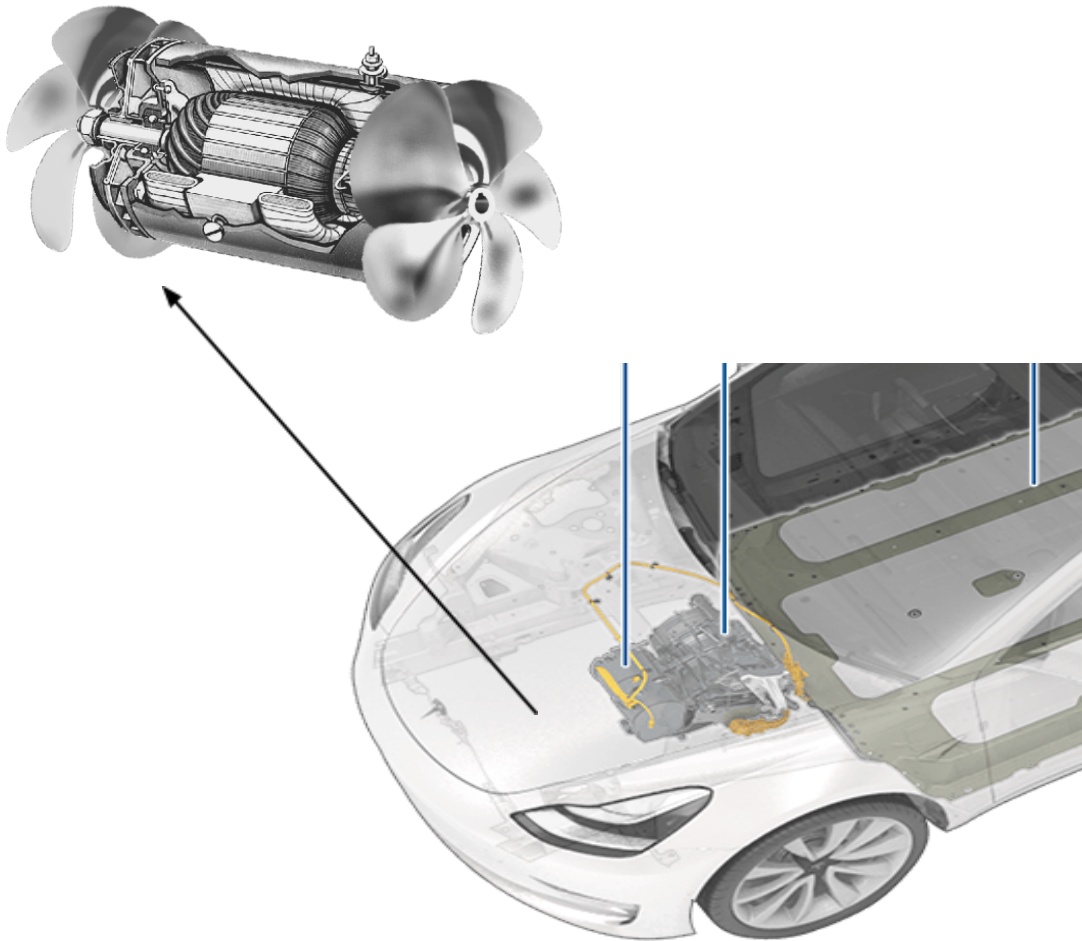
Every car ever made (petrol car) is designed in a way to use the opposing air to cool the engine and also be aerodynamic. That is the air enters the front side radiator and is used to cool the coolant of the

AIR FRICTION POWERED DYNAMO TO CHARGE ELECTRIC CAR

engine. So typically air enters the front hood in all cars, but in electric cars there is no engine, so there's no opening in the front.

Our idea is to have an opening in front of an electric car and use the air coming through it while driving to generate electricity and charge the car's battery while driving itself, just like a windmill which uses air to produce electricity. But it won't be like a windmill, instead a box of dynamo connected with some high efficient blades to harness the opposing wind.

(image for visual representation, not actual model)



AIR FRICTION POWERED DYNAMO TO CHARGE ELECTRIC CAR

The dynamo which produces current is used to charge the battery pack 1 (2 packs of battery), while the other is used by the car to run.

By

S Yagnesh, 3rd yr student, CINTEL