



Aerodynamics Technology

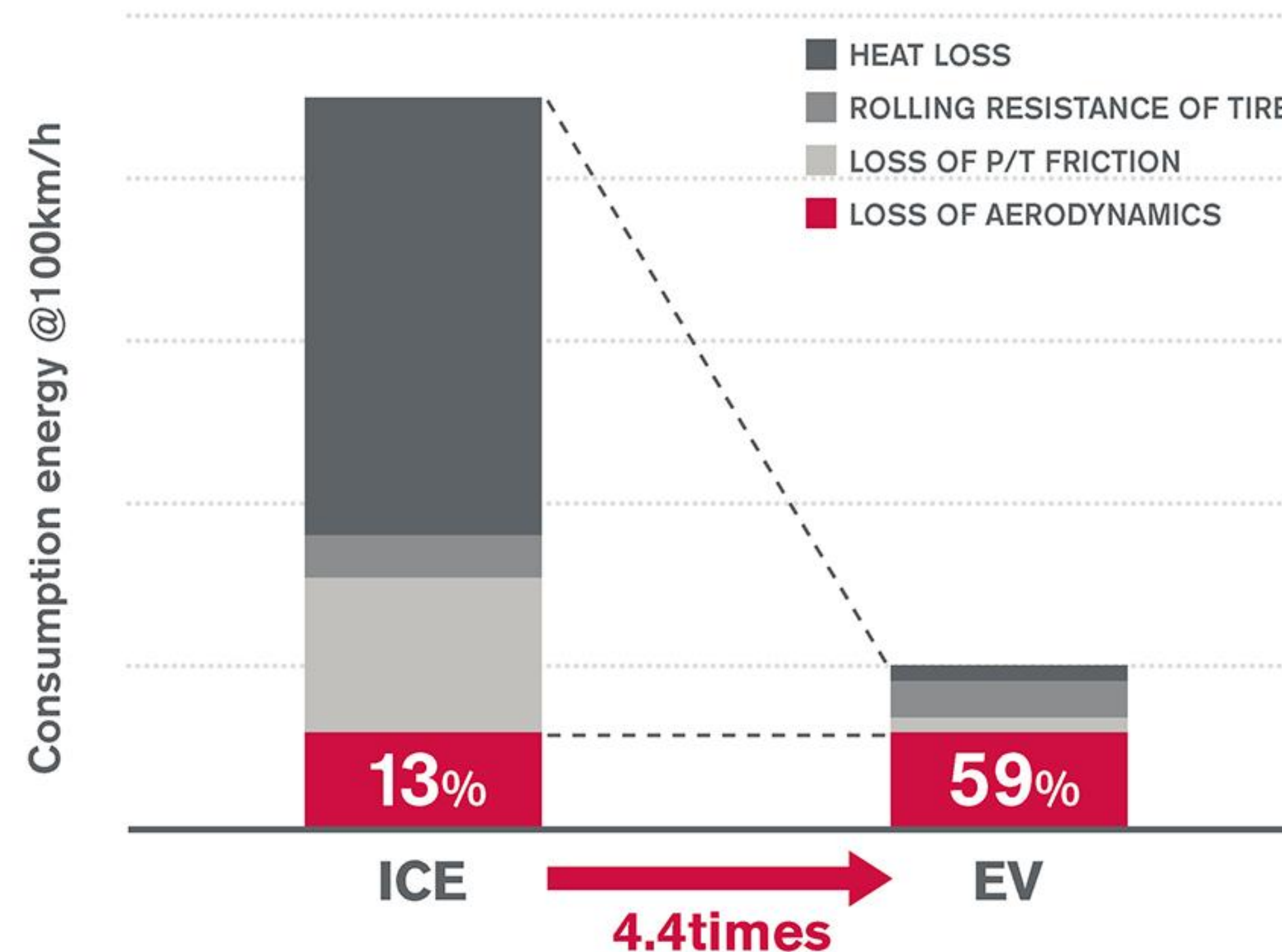
Creating the Zero Emission Society of Tomorrow

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Aerodynamics Affects EV Performance more than Conventional Cars

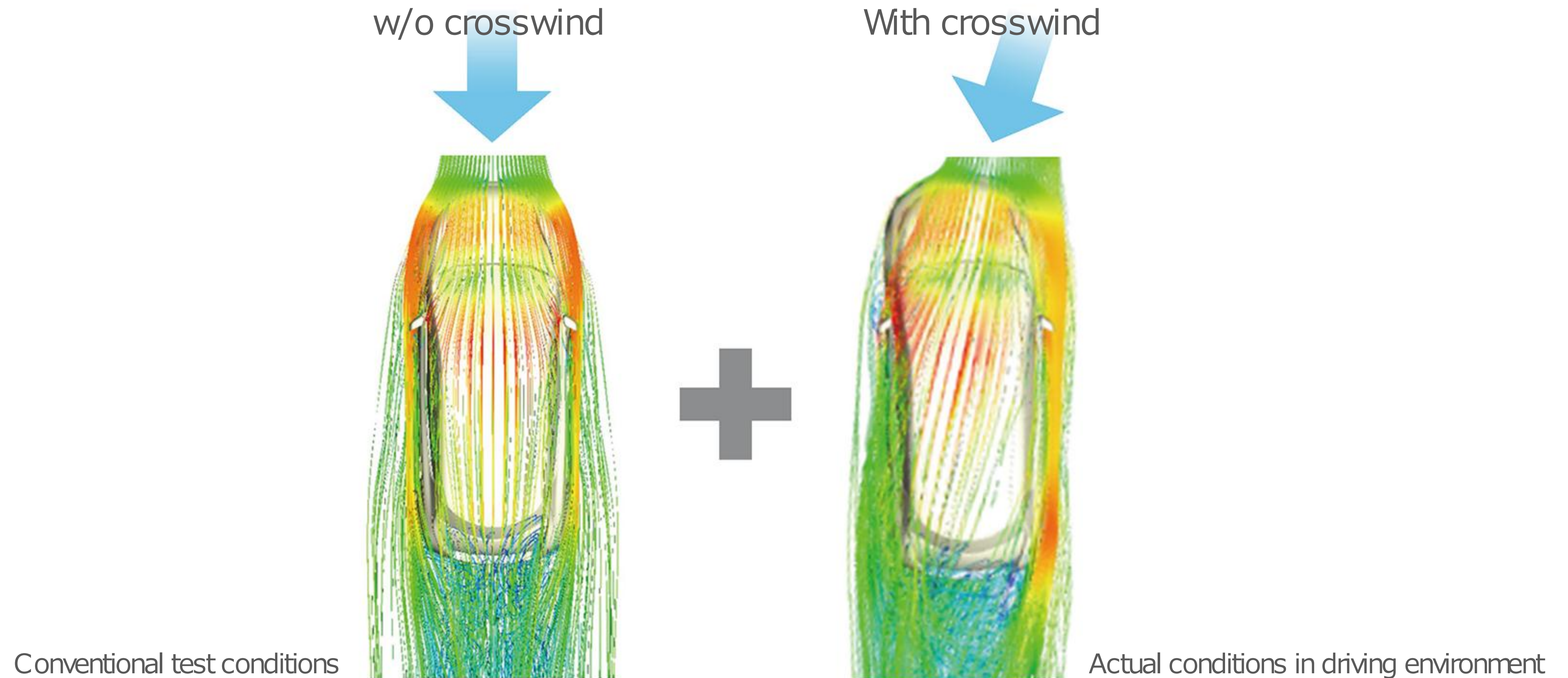
Optimizing aerodynamics benefits EVs more than it does conventional powertrain vehicles.

Comparison of ICE & EV in consumption loss from CD



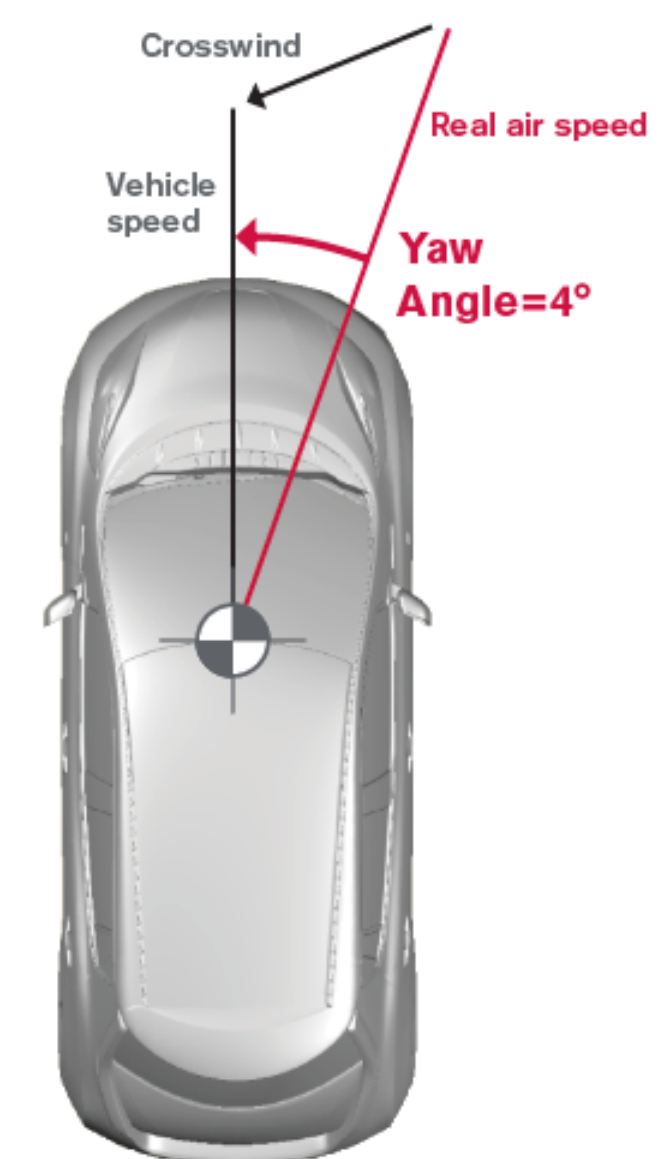
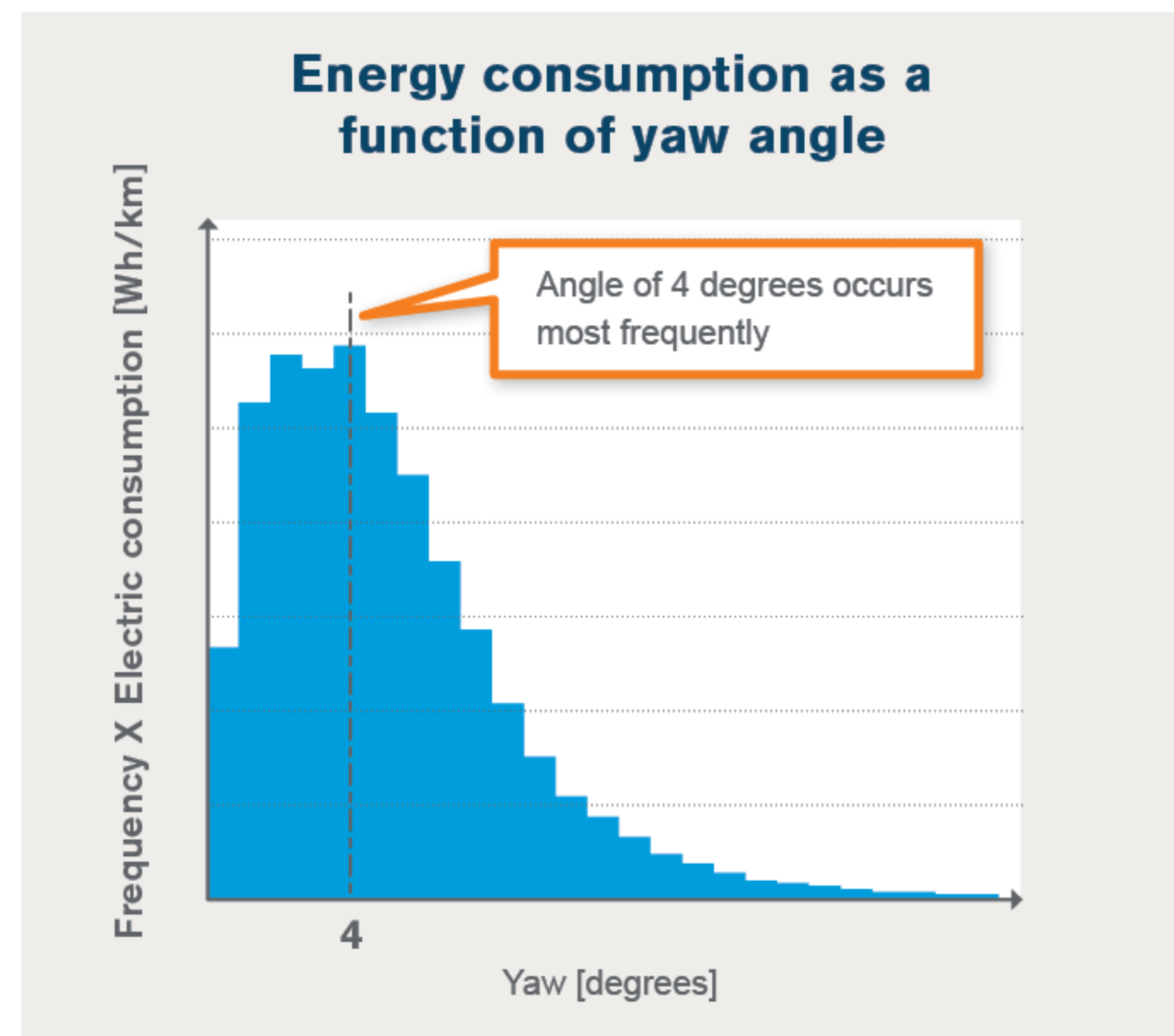
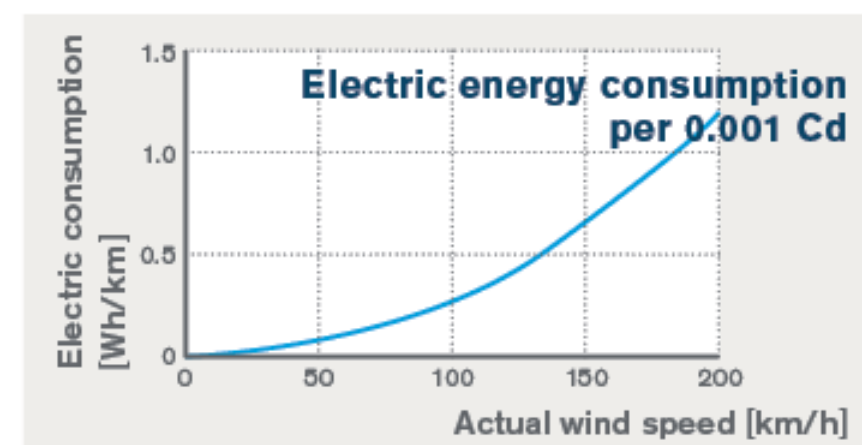
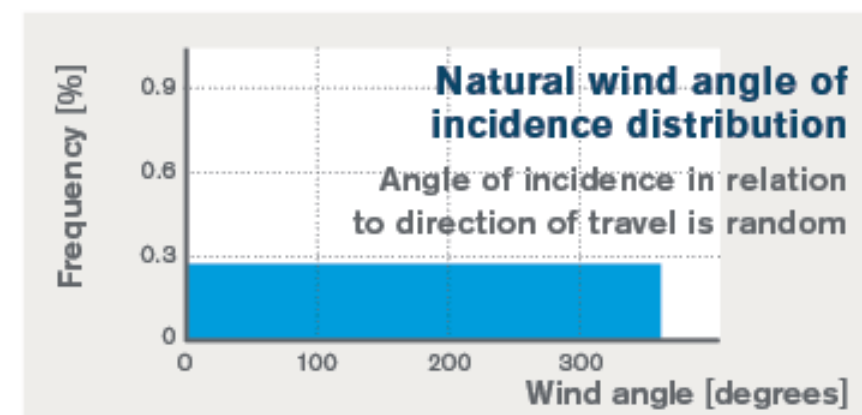
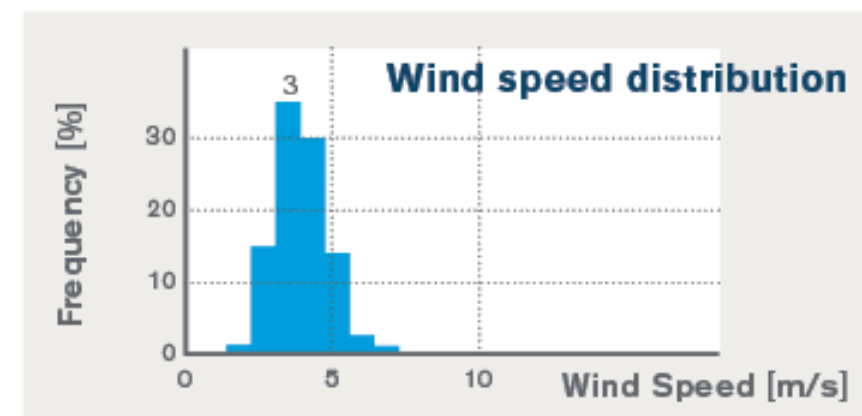
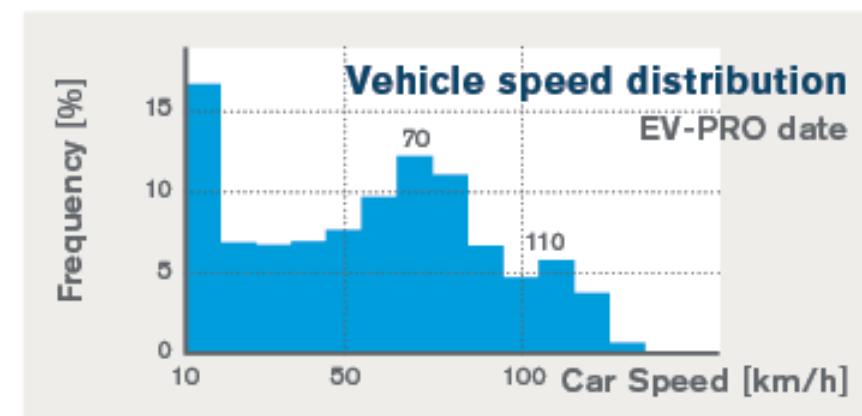
Extended Cruising Range Requires Improved Real-World Aerodynamics

Nissan studies actual aero drag not just the usual wind tunnel tests and computer simulations.



Typical Crosswind Conditions Revealed by Analyzing Market Data

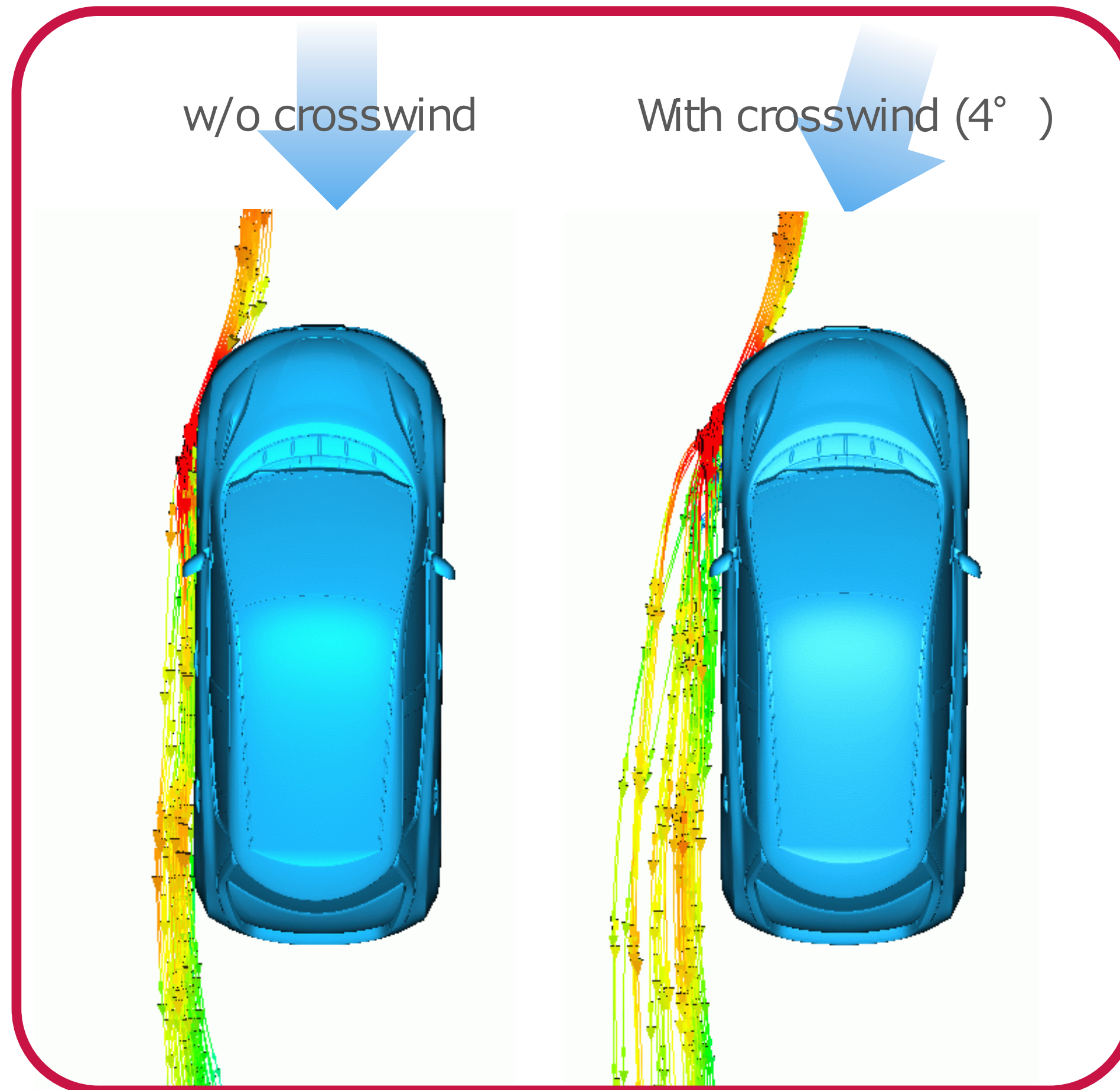
Data analysis revealed that the most frequently occurring crosswind was 4 degrees off the perpendicular of the car's direction of travel under actual driving condition in the market environment



Optimized Shape around Wheel House Reduces Aero Drag in Crosswinds

In a crosswind, the wheelhouse creates turbulence that adversely affects aero drag

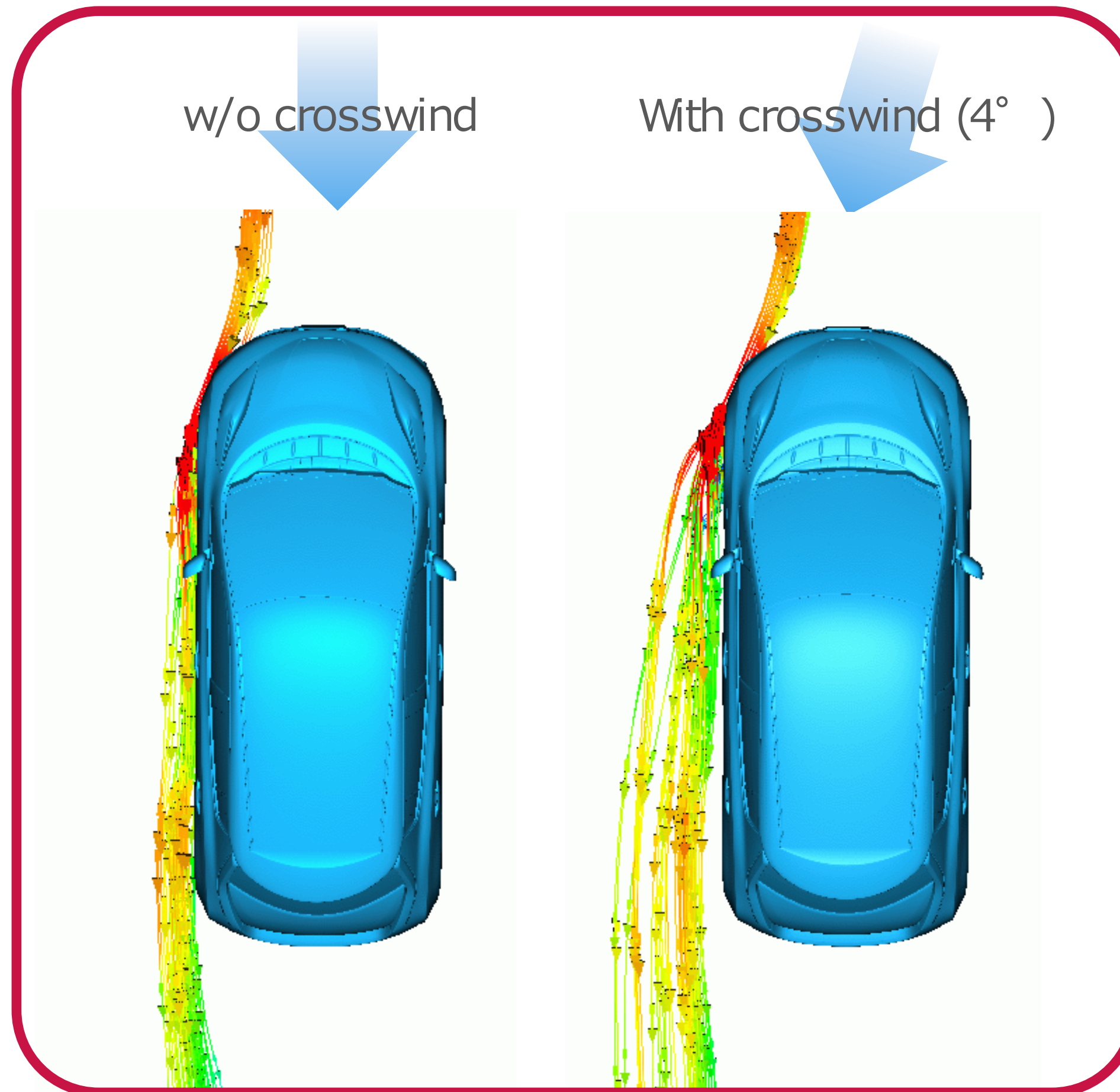
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Optimized Shape around Wheel House Reduces Aero Drag in Crosswinds

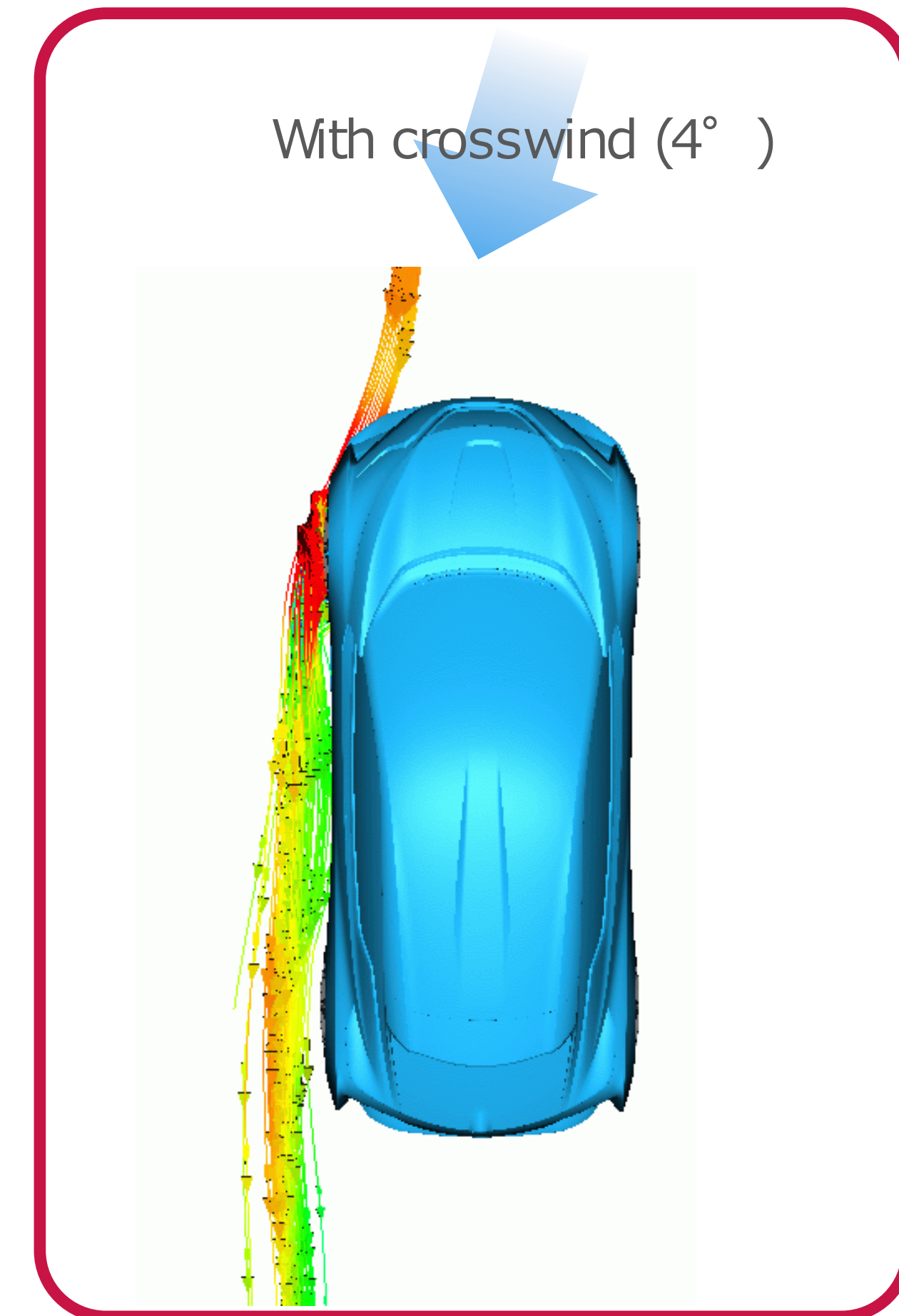
In a crosswind, the wheelhouse creates turbulence that adversely affects aero drag

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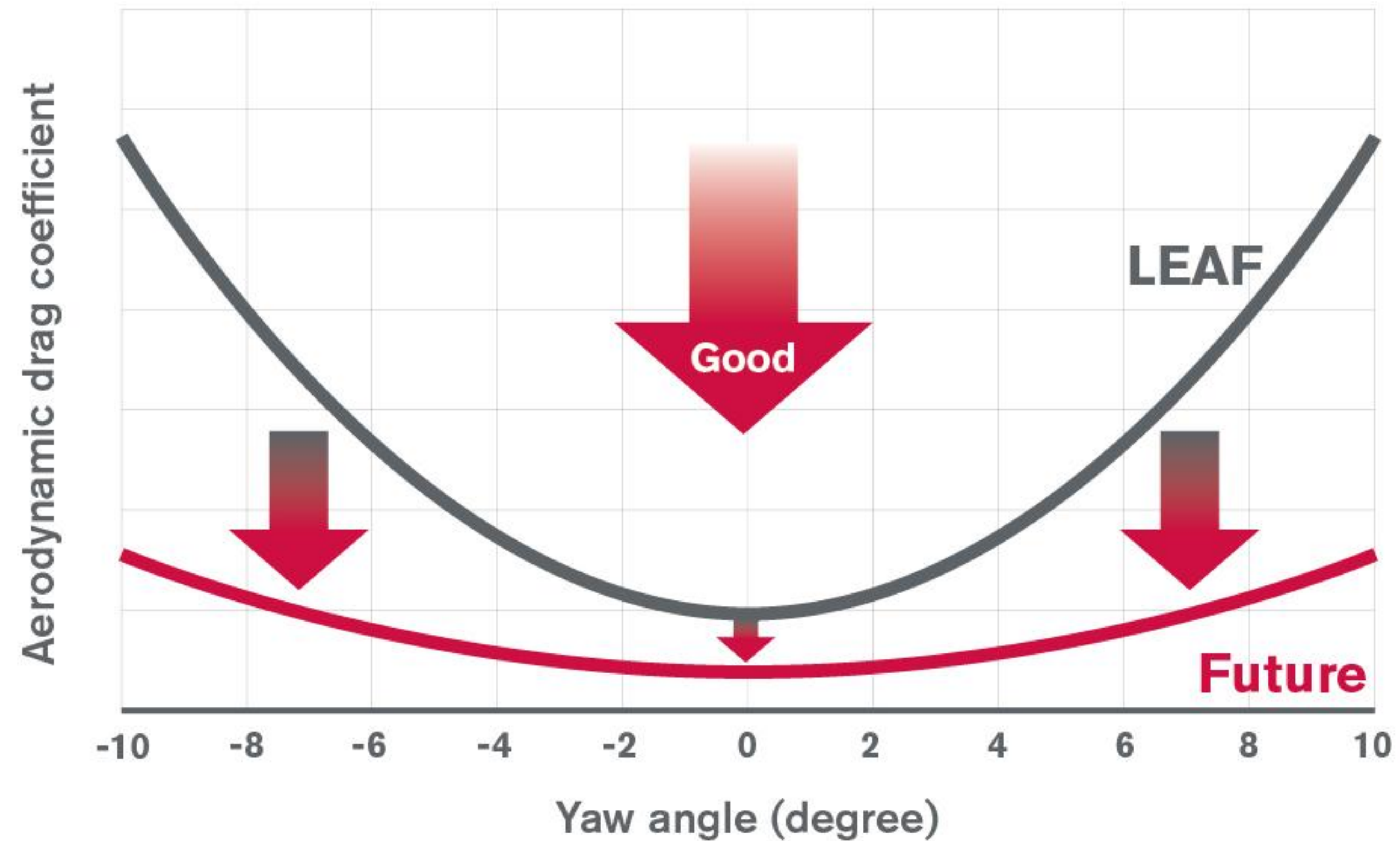
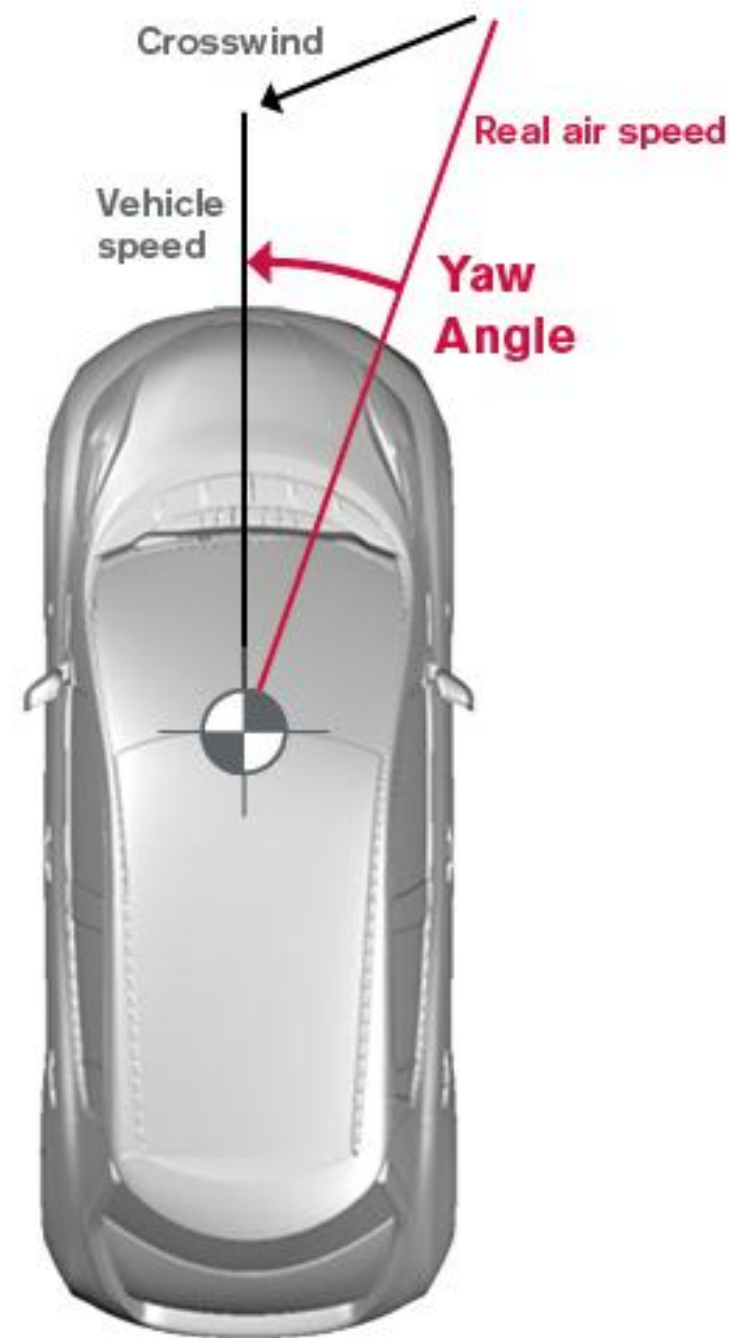
Optimizing the shape around the wheel house area supports the body side flow to be similar to w/o crosswind condition and improves aerodynamic performance

Future



Nissan is Applying these Research Results to Extend EV Cruising Range

We are innovating to develop EVs with even better aerodynamic performance under both frontal and crosswind conditions.





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