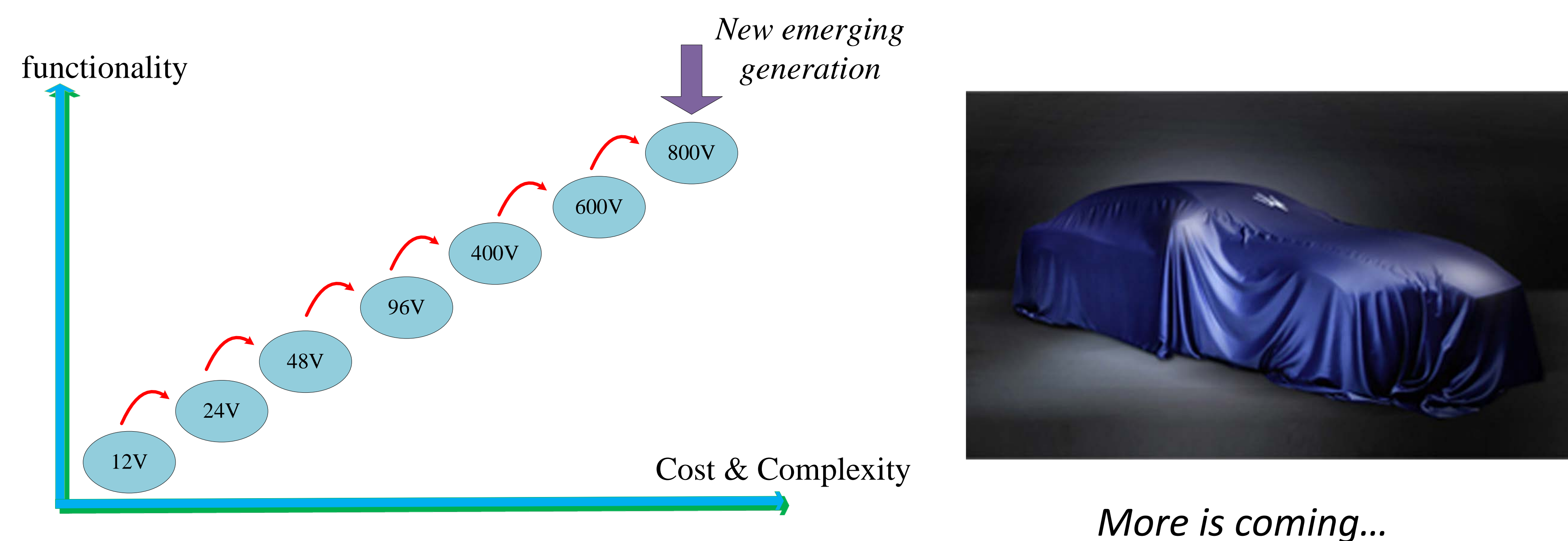


Designing Auxiliary Power Unit for 800V Powertrain Vehicle

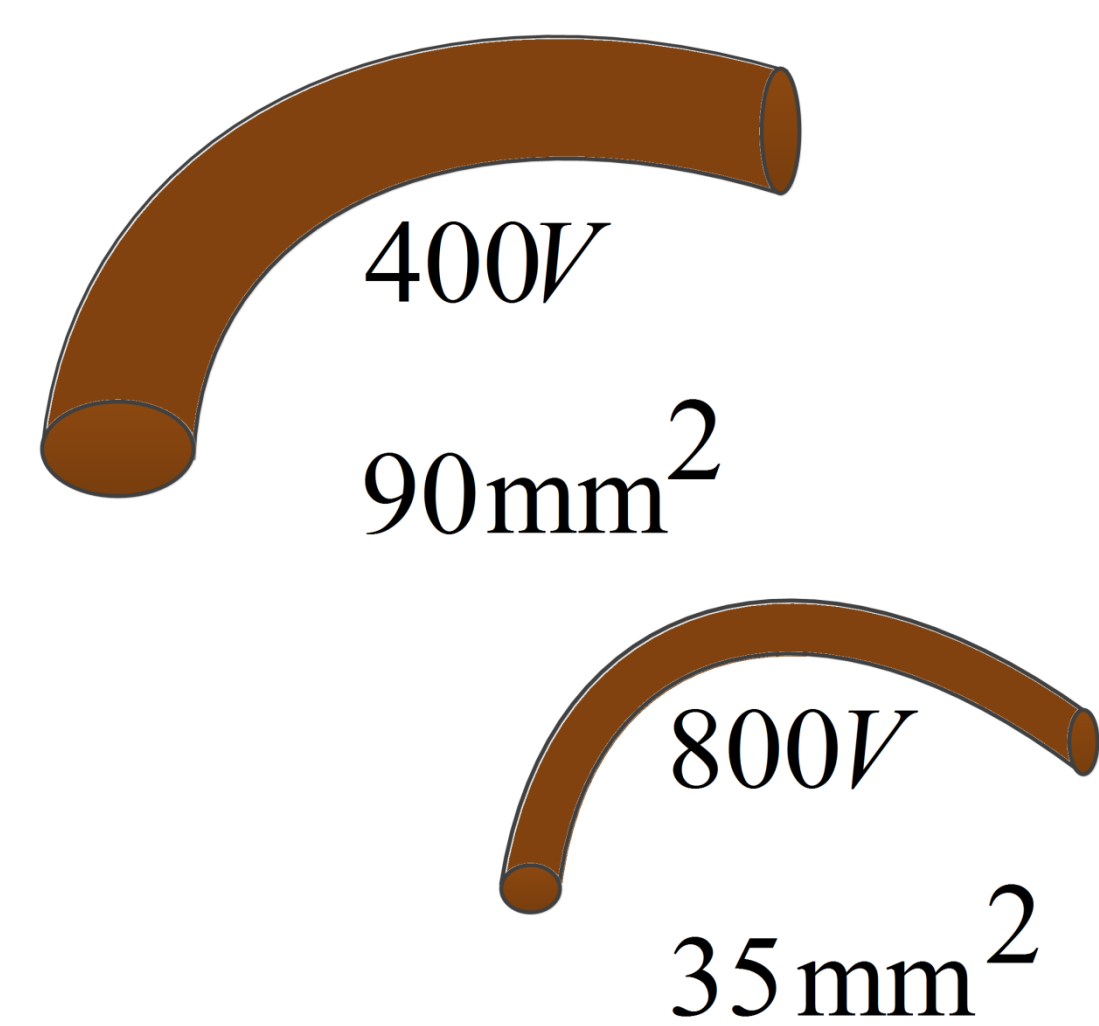
McMaster Automotive Resource Centre (MARC)
 Electrical and Computer Engineering, McMaster University
 Iman Aghabali

EECOMOBILITY (ORF) &
 HEVPD&D CREATE

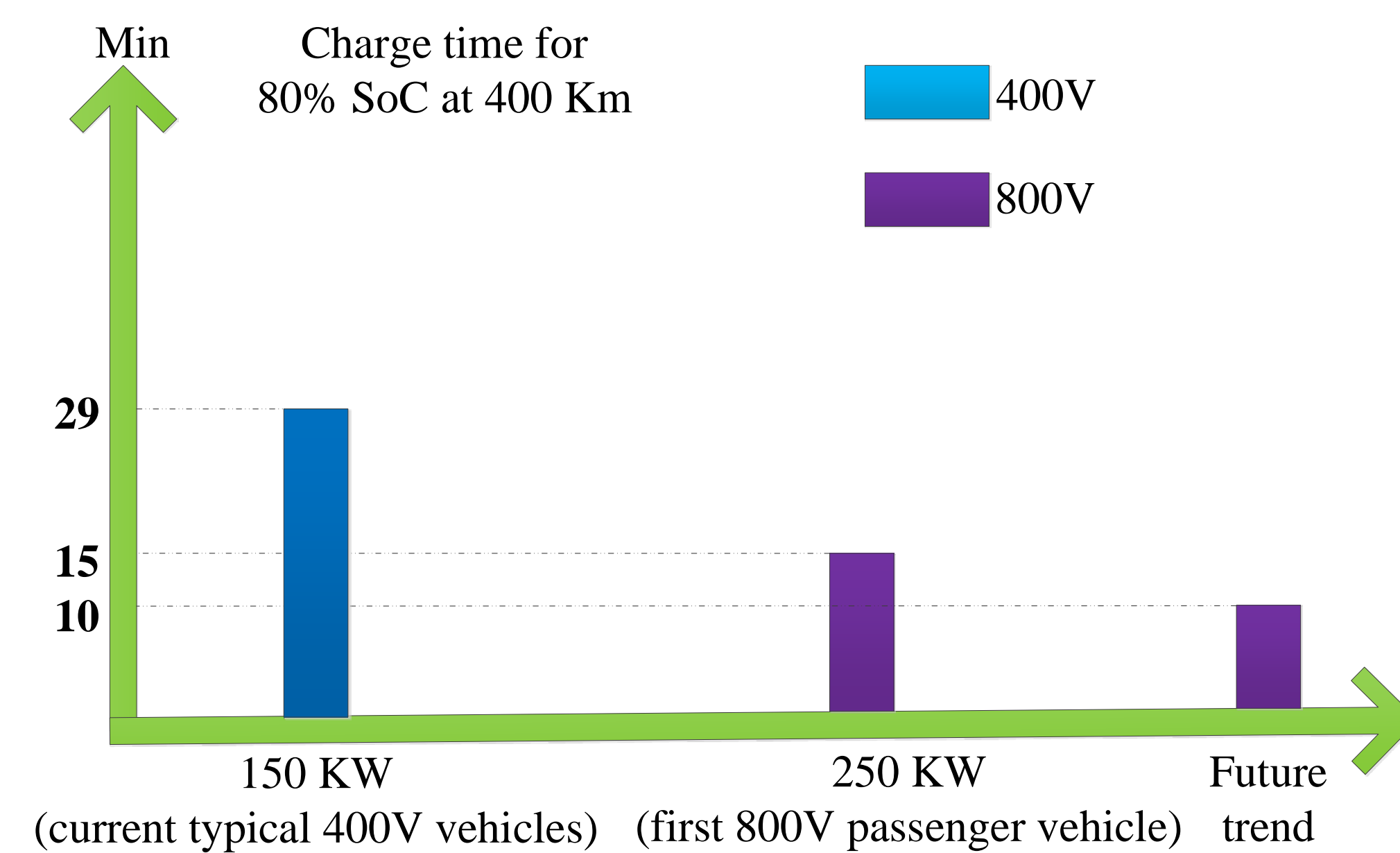
New generation of electric vehicles



The benefits of increasing voltage level inside the powertrain

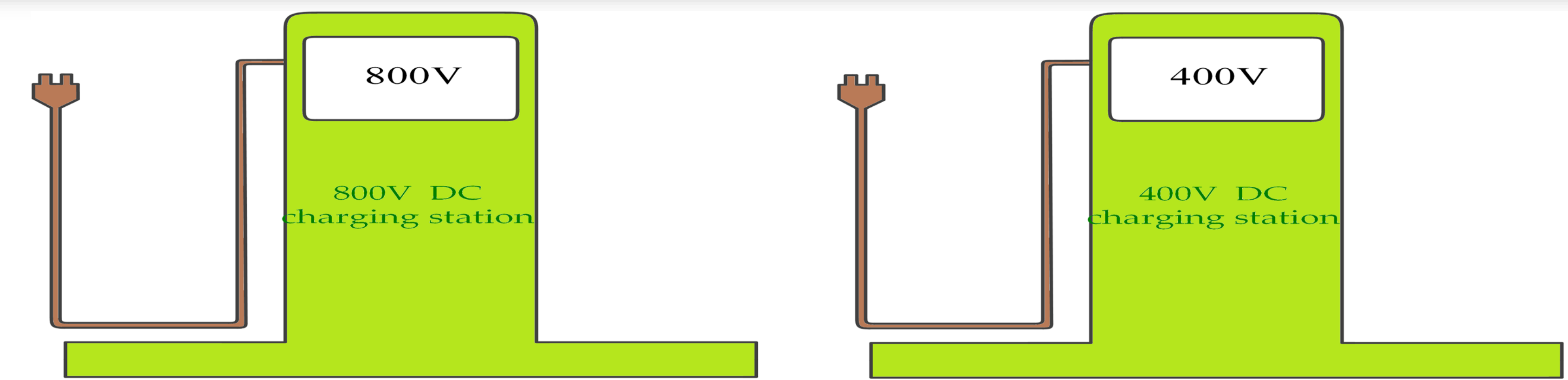


Package and weight wiring reduction



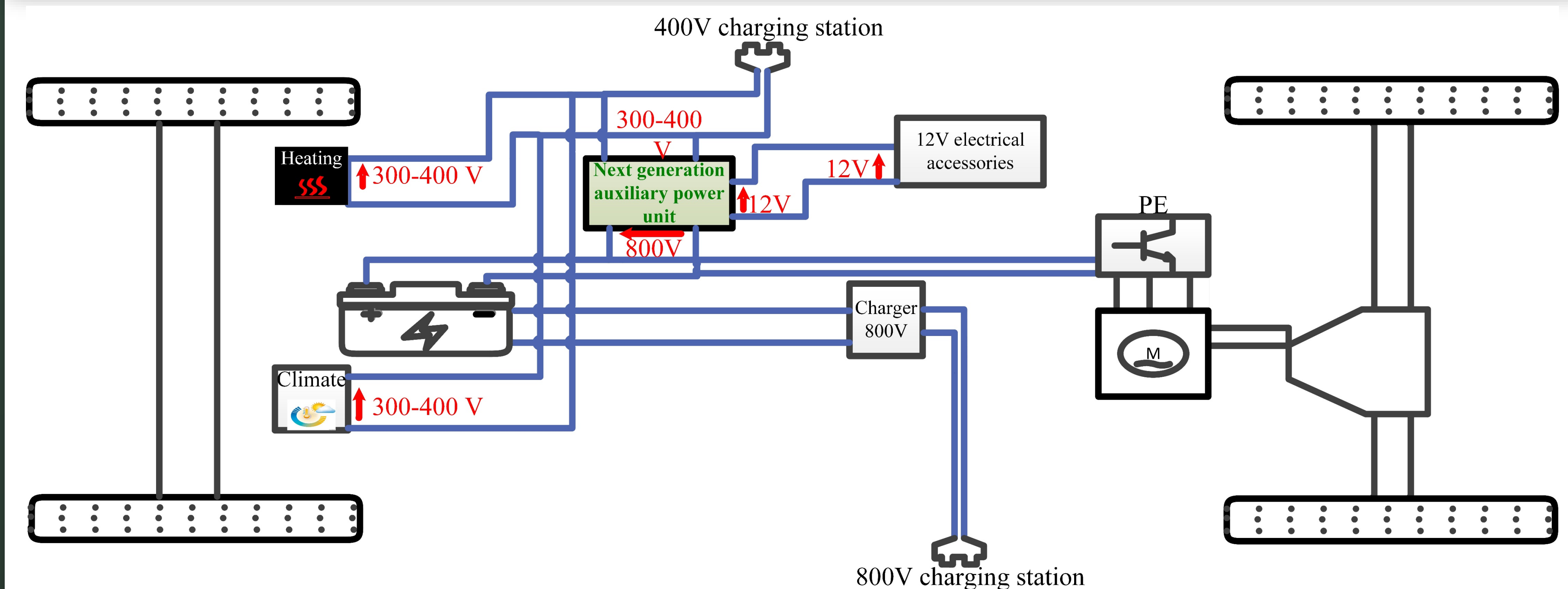
Charging time will be significantly reduced
 (Customer benefit)

The challenges of the new paradigm shift



Will be 800V DC charging station widespread?

Auxiliary power unit (APU); system architecture for new generation



Ultimate goals for the final design of the APU

