Future Energy Scenarios 2019

Transport

July 2019

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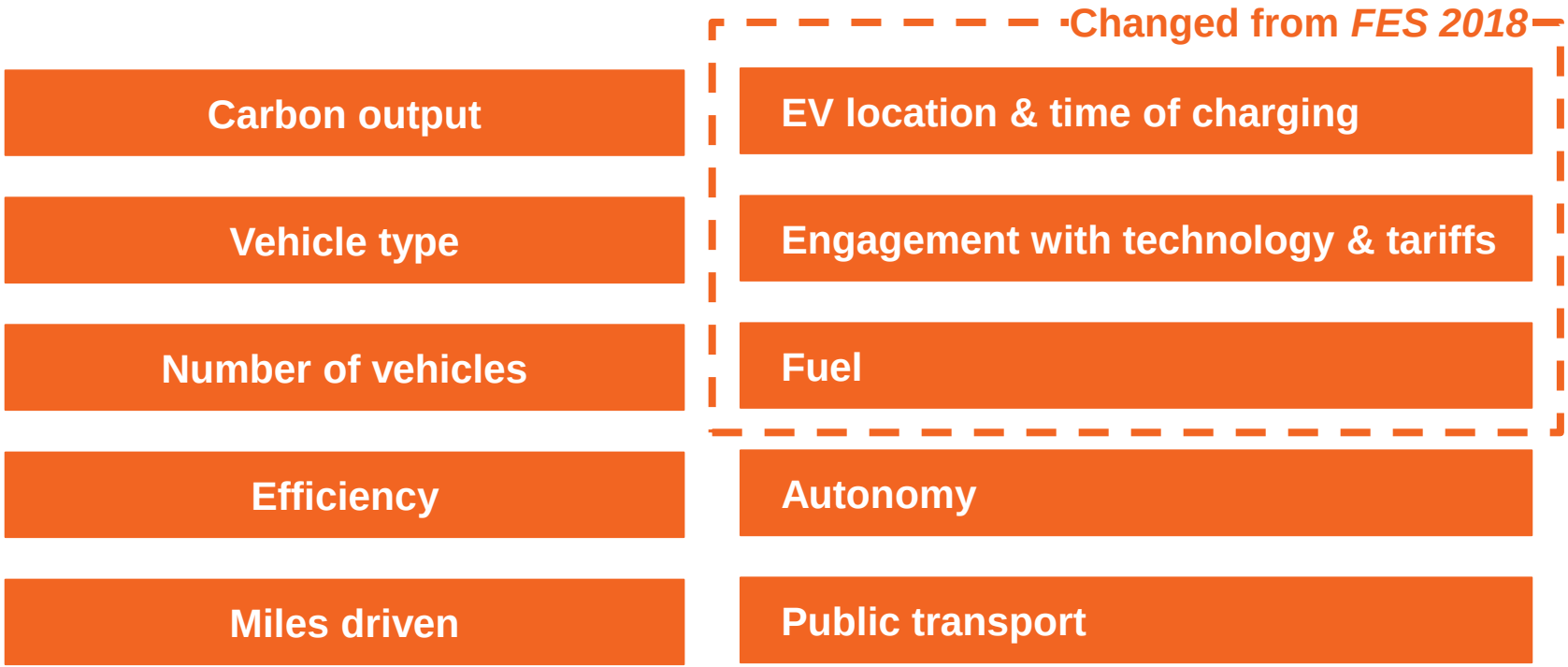
Modelling inputs and assumptions



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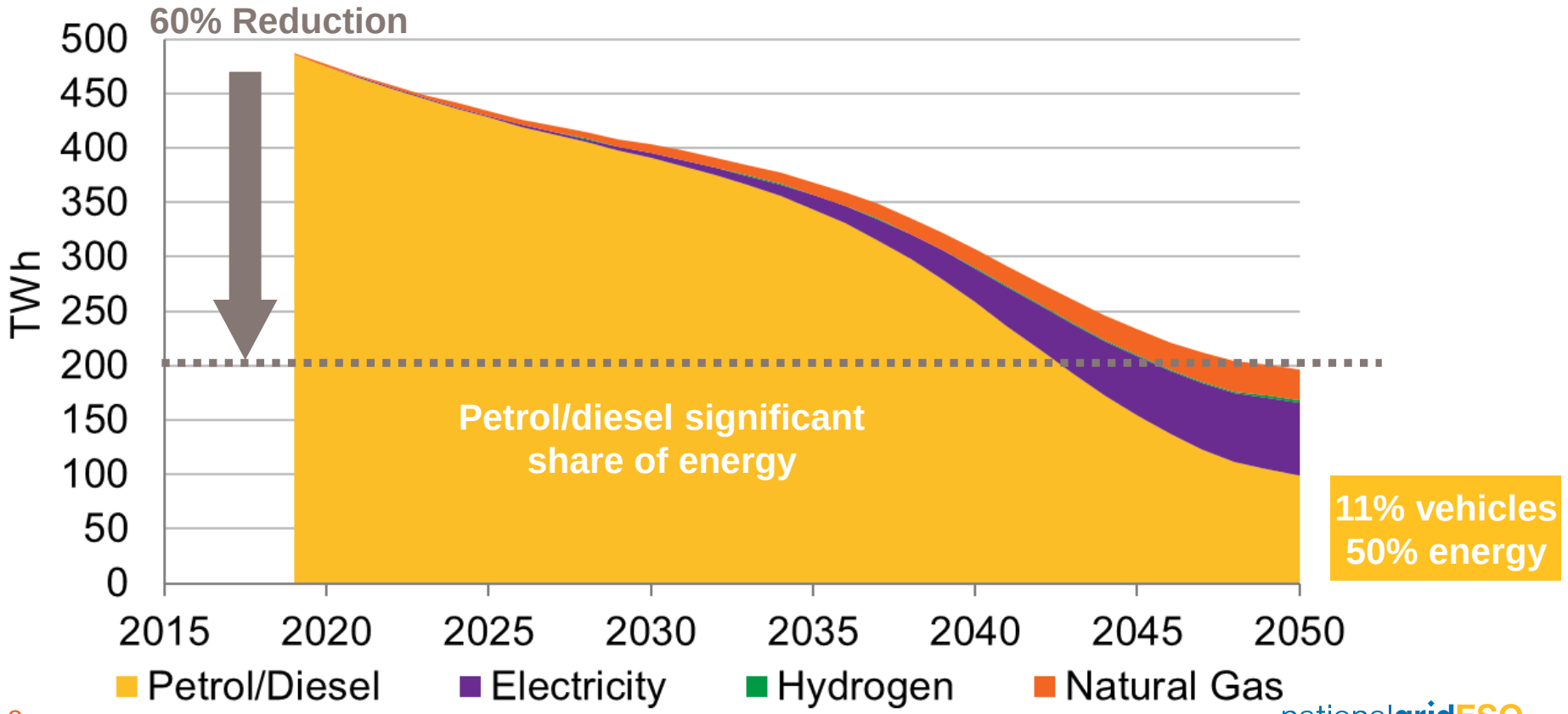
Energy per year (TWh) - Consumer Evolution



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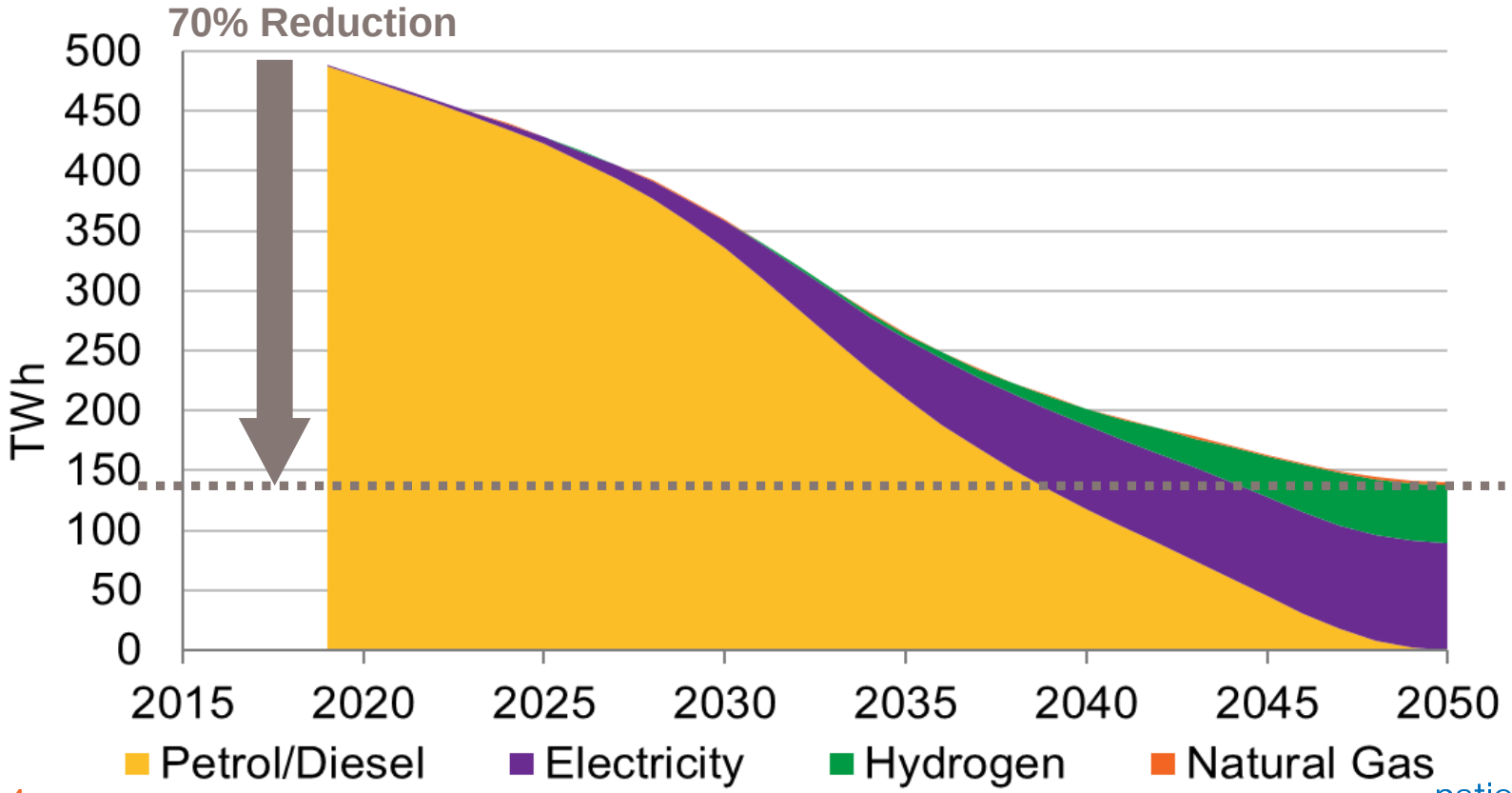
Energy per year (TWh/Year) – Two Degrees



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Network Innovation Allowance (NIA) Project

Element Energy

EV charging information for 2017 & 2018

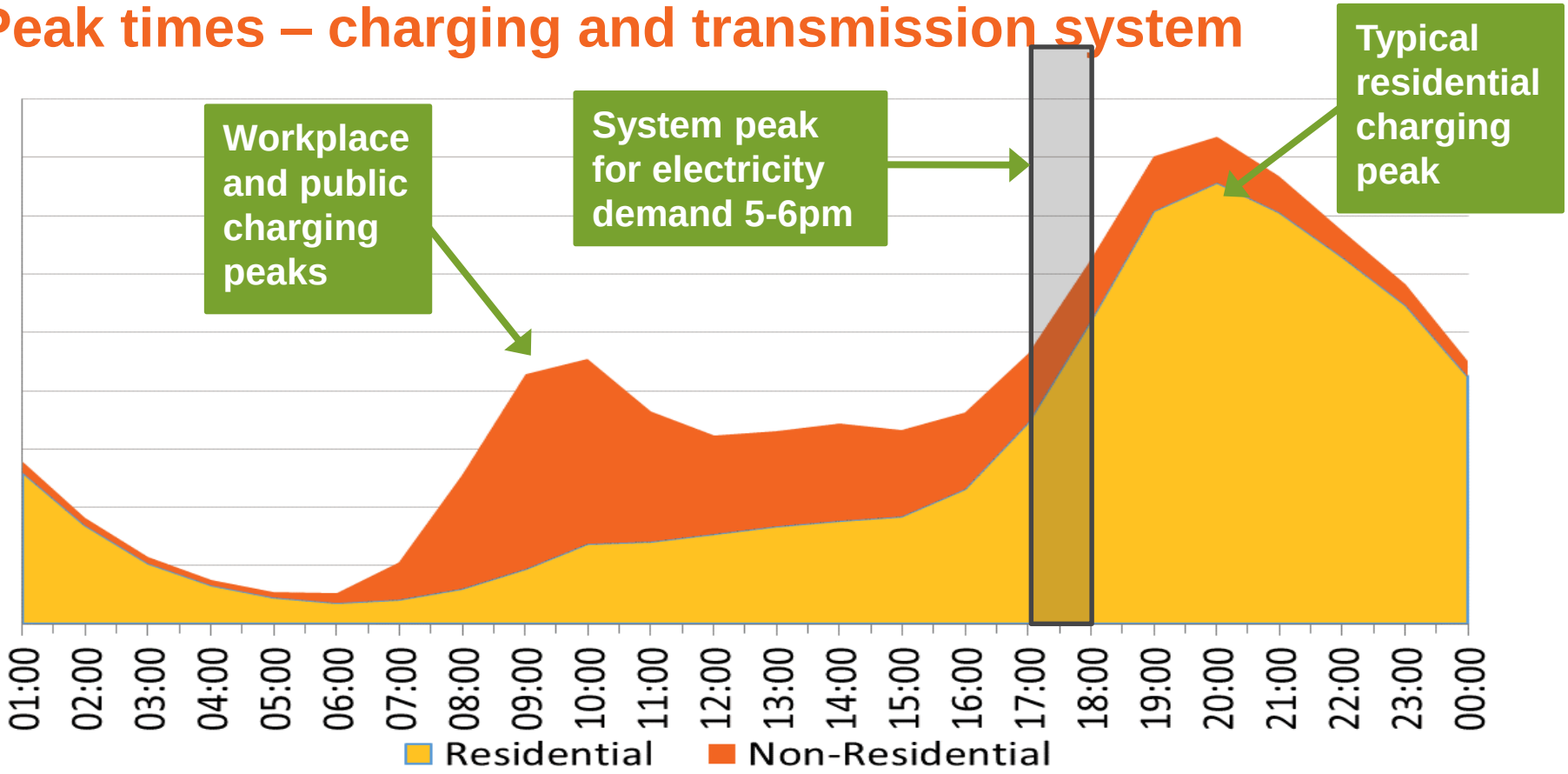
Over 50% of residential chargers

70% of non-residential chargers

8 million charging instances

Residential	Work	Public
75%	15%	10%

Peak times – charging and transmission system



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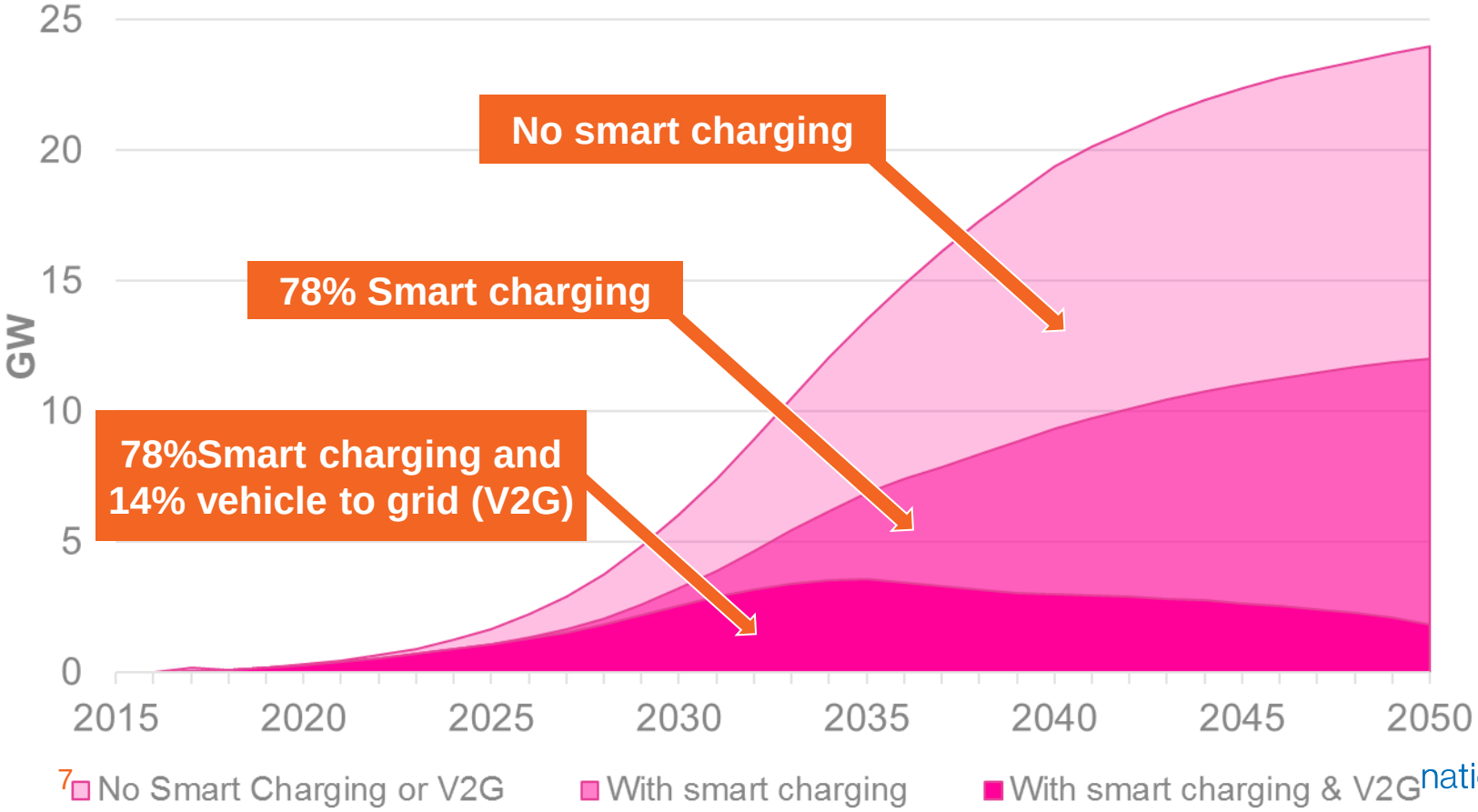
Transport electricity peak (GW) – Community Renewables



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Summary

Significant growth in electric vehicles in all scenarios

Peak EV charging is expected to be less than previously forecast

Electric vehicles can help decarbonise both transport and electricity supply for Great Britain. The market needs to align vehicle charging behaviour to complement renewable generation and meet system needs.

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