

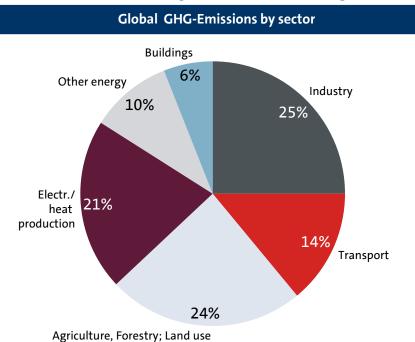
# Volkswagen's contribution to the Paris Agreement: our approach to decarbonization

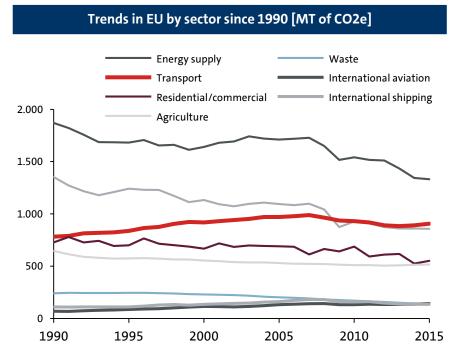
Climate HOW Symposium, Venice, February 8, 2019

Ralf Pfitzner, Volkswagen AG



## Transport Sector accounts for 14% of global GHG Emissions In the EU, transport is the only sector with emissions increase since 1990





Source: IPCC 2014, EEA 2018

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## Volkswagen will be part of the solution, our focus is on climate change mitigation and decarbonisation

**DIMENSIONS OF SUSTAINABILITY AT VOLKSWAGEN** 

FOCUS AREA: DECARBONIZATION AND CLIMATE CHANGE MITIGATION



#### Why it matters to Volkswagen:

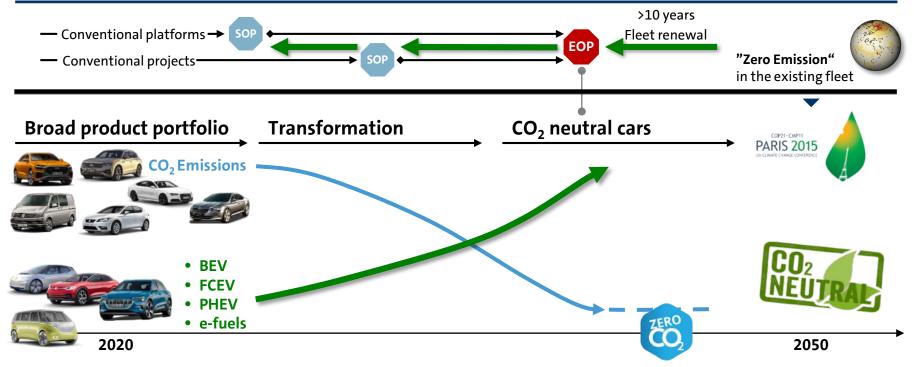
- Because of our significant influence and thus responsibility
- Because of rising stakeholder expectations
- Because decarbonization delivers direct business value

Responsibility



### The long-term derivation of targets calls for prudent planning

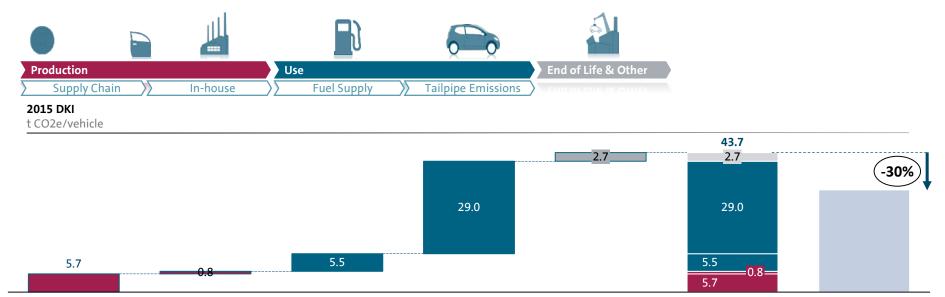
#### Paris implications and transformation path





# CO<sub>2</sub> matters across the whole lifecycle – Paris Agreement translates into a ~30% reduction need by 2025

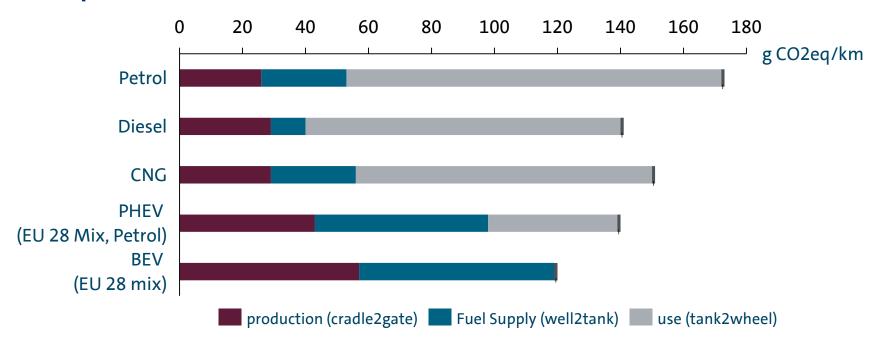
Our Decarbonization Index allows to track improvements of CO<sub>2</sub> emissions [in t CO<sub>2e</sub> / vehicle] of the group LDV product portfolio over the entire life cycle



Results for average Volkswagen Group vehicle across all brands



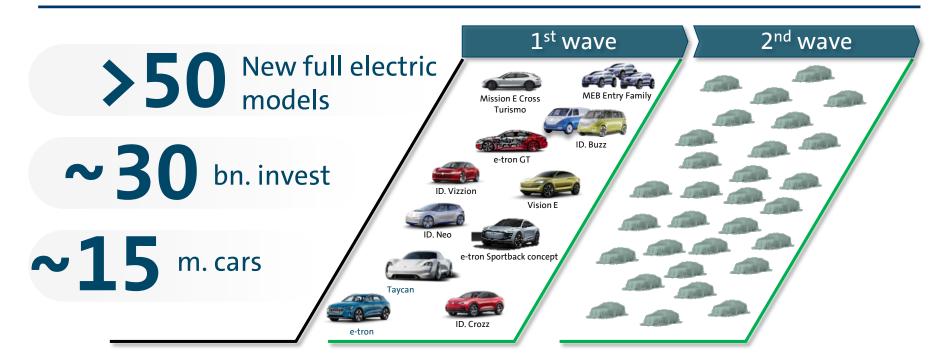
# BEV today already first choice in CO<sub>2</sub> over lifetime – example current Golf class car



Source: Volkswagen K-GEGU 2019, "Klimabilanz Antriebe"; Compact Car (Golf-class), LCA, use phase acc. to WLTP, 200.000 km life
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The plan for the electric offensive starts in the launch phase with a portfolio of over 50 vehicles and a project volume already exceeding 15 million

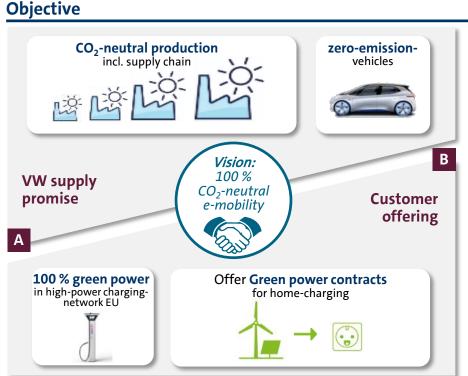




### The first steps towards a CO<sub>2</sub>-neutral society have been taken

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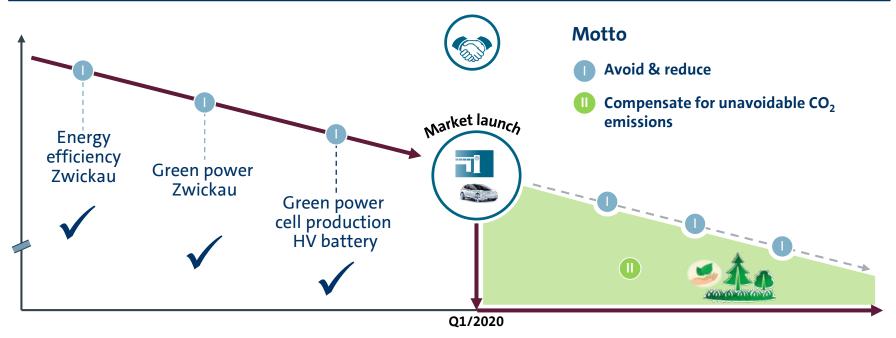
Offers for CO<sub>2</sub>-free use phase



### CO<sub>2</sub>-neutral hand-over of the ID. to European customers decided

A Principle & roadmap CO<sub>2</sub> supply chain & production Europe







# Additional offsetting during production and green power during use phase make the ID. CO<sub>2</sub>-neutral over lifecycle CO<sub>3</sub> neutrality ID.

















## Decarbonization: We address an entire ecosystem and go beyond the vehicle itself

## Supporting the Energy transition



# Conversion of power plant, saving 1,5 mn tons of CO<sub>2</sub> by 2022, corresponding to emissions of 870,000 cars per year

 Volkswagen with 37% renewable energy in manufacturing (as of 2017)

#### **Lower emission products**



- Further emission reductions
- Alternative fuels (e.g. Audi e-gas)
- Extended portfolio of electric vehicles

#### **Charging infrastructure**



- Joint venture for rapid charging network in place
- ELLI, offering home charging with green electricity

#### **Mobility Services**



- MOIA electric shuttles in first cities
- All-electric car-sharing Volkswagen We share O2/2019 in Berlin