

Volkswagen's Approach to Sustainability and Decarbonization

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Sustainability @ Volkswagen covers a broad range of topics - Decarbonization, Integrity, Sustainable Supply Chains, Transforming the Workforce are among most material ones



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



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

DIMENSIONS OF SUSTAINABILITY AT VOLKSWAGEN



FOCUS AREA: DECARBONIZATION / CLIMATE CHANGE

Why it matters to Volkswagen:

- Because of our significant influence and commitment to responsible action (1% of global CO₂- emissions affected by our passenger car portfolio)
- Because of rising stakeholder expectations
- Because decarbonization delivers direct business value

E-mobility is the only way forward to achieve climate targets



A group wide target of 30% CO_{2e} reduction/vehicle over lifecycle for Volkswagen Group was decided - in line with the Paris Agreement

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1) Decarbonization index (DKI), 2) target derived based on method by Science Based Target according to 2° C target, 3) Passenger cars including light duty vehicles,

E-mobility transformation is reflected in our corporate planning

PARIS IMPLICATIONS AND TRANSFORMATION PATH



The decarbonisation target will be achieved via three pillars: 1. Reduce CO₂; 2. Convert fossil to renewable energy; 3. Compensate the rest



To reach our decarbonisation target measures along the entire value chain are required



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Primary energy demand is lowest with BEVs



PRIMARY ENERGY REQUIREMENT IN WH/KM FOR LIFECYCLE

Example: A-Segment 200.000 km, CO_2 emissions & energy over lifecycle of vehicle and fuel ¹⁾ not fully comparable with energetic base, not CO_2 neutral

ID.3 as first showcase for decarbonization along the value chain



BEV today already first choice in CO₂ over lifetime – example current Golf class car



Customers and markets must still be prepared for e-mobility



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



- Conversion of Wolfsburg power
 plant, saving 1,5 mn tons of CO₂
 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 egas)
- Extended portfolio of electric vehicles

Charging infrastructure



- Joint venture for rapid charging network in place
- ELLI, offering home charging with green electricity
- Electrify America
- Lidl & Tesco cooperation

Mobility Services



- MOIA electric shuttles in first cities
- All-electric car-sharing Volkswagen We share Q2/2019 in Berlin

Supply Chain Sustainability – managing risks along three defined priority areas



Improve basic principles and success factors for supply chain management

- Transparency within sub-supply chains pilot projects with IBM & Minespider
- Transparency on sustainability performance of suppliers Introduction of S-Rating
- Harmonisation of standards and tools Pilot on audit standards for direct suppliers and mining companies, uniform CO2 data
- Cross-industry initiatives and cooperations
 Engagement in initiatives like DRIVE Sustainability, Responsible Minerals
 Initiative or Global Battery Alliance



Sustainability in the Supply Chain: We want to be a Driving Force



We are strengthening external stakeholder relations. Group Strategy's stakeholder dialogue series provides a holistic format for discussions with key opinion leaders



Sustainability Council as critical advisor to the Group Board of Management



Topics

- Sustainable Mobility and Environmental Protection
- Social Responsibility and Integrity
- Future of Work and Digitalization

Tasks

- Strategic Counseling of the BoM
- Strengthening Sustainability Management
- Bridge to Stakeholders
- Expertise and Initiatives

Projects

- Transformation Towards Sustainable Transport Systems – Next Generation Policies
- Open Source Lab for Sustainable Mobility
- Forecast-based Financing Combat Climate Change Impacts in Asia-Pacific

We have a strong sustainability network – Sustainability as part of Group Strategy since 2018



Communication on Sustainability: Sustainability Report and Sustainability Magazine Shift

Sustainability Report

Includes the combined separate non-financial report and fulfils the requirements of the HGB (German Commercial Code) and the German CSR Directive Implementation Act.

GRI Standards (comprehensive level)



FOCUS: ESG, facts, figures, regulation, GRI / UN SDGs¹

https://www.volkswagenag.com/en/sustainability/reporting.html 1) GRI = Global Reporting Initiative | SDG = Sustainable Development Goals



Shift Magazine

How can Volkswagen – after the Diesel Crisis talk about sustainability again without fear of ridicule?

Shift, which complements our traditional Sustainability Report, is an initial answer.

FOCUS: conflicting goals, change /crisis, outlook

https://www.volkswagenag.com/en/sustainability/shift.html

