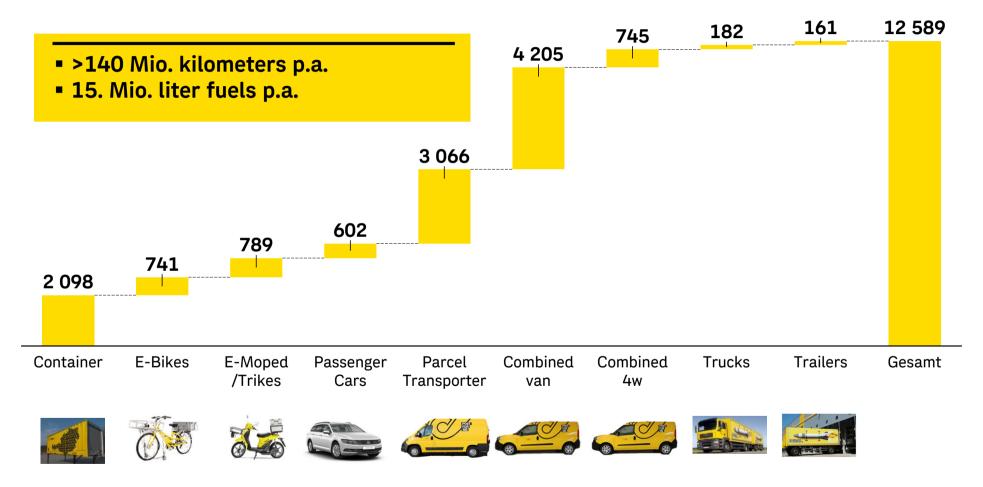


FLEET SIZE AUSTRIAN POST (INCL. LINE HAUL)



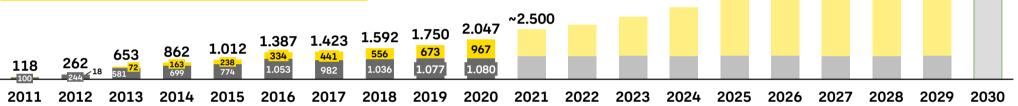


BEV-FLEET: CONTINOUS FIELD EXPERIENCE SINCE 2011



100%*





PHASE I - FOCUS VEHICLES

- 2011 first acquisition of BEV
- Last mile delivery in urban areas
- Since 2015 increased investments in car derived vans (4m³)
- 2020 first time acquisition of BE-parcel transporters

PHASE II - FOCUS CHARGING INFRASTRUCTURE

- Until 2020 installation of appr. 1.000 charge points
- Since 2021 operation of smart charge software for efficiency purpose and operational reliability

PHASE III - FOCUS OPTIMIZING OPERATIONS

- Ongoing optimization of BEV-fleet regarding fields of operation and charging infrastructure.
- Implementation state-of-health monitoring for battery systems
- Developing 2nd life scenarios for traction batteries

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► GREEN GRAZ: EMISSION FREE DELIVERY FROM 2021 FOR 290K



PEOPLE

IMPLEMENTATION PLAN

- (1) 2020 mail delivery 100% CO₂ free (63 E-Vans, 22 E-Mopeds)
- (2) Cityhub-Project centralized logistics for downtown areas
- (3) Piloting of 1st E-Vans for parcel delivery
- (4) 2021 Rollout 70 E-Vans for parcel delivery
 - 100% emission free since Oct. 2021
 - Austria's biggest charging spots at two depots with 110 AC-11kWH and 30 DC 25kWh chargers









OUTLOOK: LIFE-CYCLE MANAGEMENT OF TRACTION-BATTERIES AS KEY ENABLER FOR ADDITIONAL COST BENEFITS AND INCREASED SUSTAINABILITY



LIFE-CYCLE OF BATTERY SYSTEMS AS FOCUS TOPIC



ONGOING ANALYSIS

- Batteries in operations show robustness against degradation.
- Life-cycle for BEV in transportation up to 10 yrs. manageable.
- Low power charging as benefit for last-mile derilvery.
- Software based battery monitoring to optimize field of operations and managing degradation.

SECOND LIFE OPERATION

 In case of BEV total loss due to accident usage of battery in stationery system at depots.



RE-MARKETING

- Selling of used BEVs
- Recycling of battery systems

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