1905: „Viennese Forest And Meadows Belt“
1910: II. Hochquellenwasserleitung – water supply from mountain ranges
1988: Danube Island
2001: 1,550,000 Inhabitants
2021: 1,921,000 Inhabitants
Strategies (also) for better air quality
Vienna follows a synergetic and holistic approach to improve environment and quality of life

1999 ff

KliP
Climate protection Plan
www.wien.gv.at/umwelt/klimaschutz/programm/

2005 ff

ULI-Wien
Urban Air Initiative– Vienna
www.wien.gv.at/umwelt/luft/

2011 ff

Best quality of life for all people in the city – combined with maximum resource preservation, which is brought about by comprehensive innovations.
www.smartcity.wien.gv.at

2022 ff

Wiener Klimafahrplan
Climate protection roadmap
https://www.wien.gv.at/umwelt-klimaschutz/klima-fahrplan-2040.html

2040
Climate neutrality
Emission inventory results for particulate matter PM10 and nitric oxides NOX
Scenario 2015 after update 2017

Other regulated pollutants (SO₂, CO, …) are far below limit values
Ozone is a topic of its own...
Activities (not only) for better air quality

- Line current instead of power generators
- Alkylatefuel for small devices
- No use of leaf blowers by city gardeners
- Winter sanding (1996: 113,000t → 2021: 100t)
- Forced road cleaning
- Smart spatial planning
- Parking space management
- Public transport
- Speed limits
- Defensive driving
- Car sharing
- Bike sharing
- Funding for CNG-vehicles/ CNG-taxis/ e-LDV/ e-bikes
- Renewal of the bus fleet
- District heating
- Refurbishment and building quality
- Greening of the city
- Dialogue with building trade
- Information for construction works
- Ban of coal as fuel
- Funding of photovoltaic installations
- „Citizens’ solar power plant“
- Better filters in power plants
- Ban of sulfur rich oils as fuel
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Key factor public transport

- tickets 365€ per year
- new tram and U-lines
- shorter intervals
- 24h
- ultralow floor trams
- barrier free stations
- real time information

- Euro VI- busses, e-busses in regular use, hydrogen busses in regular use by 2023

Amplified by parking space management, speed limits, mobility points for combined traffic, bicycle infrastructure, ....
A key factor: modal split in Vienna
In the years 1993, 2019 and 2020

Wahl der Verkehrsmittel 1993 – 2019 in %

Wahl der Verkehrsmittel 2019 – 2020 in %

https://www.wienerlinien.at/web/wiener-linien/ru%C3%BCckblick-2020-ausblick-2021
Particulate matter PM10 and PM2.5

- Local increment rather small
- Supra-regional measures highly relevant
- Secondary aerosols!
Nitrogen dioxide NO₂

- Local increment large at hot spots (very limited areas)
- Euro 6d, Euro 7 and e-mobility reduce NOX from traffic
- Climate measures (changes in mobility and heating) will force further reductions
• Upcoming European legislation (Fit for 55, AQD, Euro 7, ...)!
• Technical developments in monitoring!
• Modelling (good input data needed)!
• IoT and Citizen Science (quality and resources)!
• Climate change,...!