tumi
E-Bus Mission

Deep Dive City

São Paulo
Brazil

General Information about the City[1]

Population
12.39 million
(estimated population, 2021)

City Area
1,521,110.33 km²

Average Temperature
21 °C

Annual Rainfall
1412 mm/year

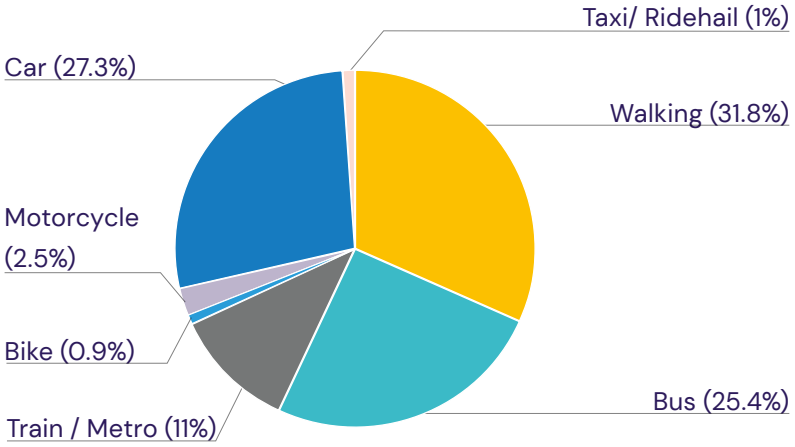
Climate Risks
Extreme temperature (hot) (heat waves, water scarcity)
Flood (flash or surface flood)

Number of Car Ownership
5,976,522 car fleet
482 cars per 1000 inhabitants

GDP (US Dollars)
146.6 billion
(1 USD = 5.21472 BRL)

Urban Mobility System

Modal Split



Public Transport Modes

- Conventional Municipal Bus
- Conventional Metropolitan Bus
- Bus Rapid Transit (BRT)
- Metro
- Train
- Taxi + Ride-Hailing Apps
- Bike sharing
- Others: Vans and taxis adapted from the atende service and school buses

Total No. of routes / buses

2019
- 1,337 routes
- 13,981 buses

Carried passengers
(Avg. daily demand)

2019: 8,86 M pax/day

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Climate and Urban Mobility Policies

Vision for net zero urban mobility

The city has a target to decarbonise their public transport fleet and reduce emission:

- CO2: 50% (2028) and 100% (2038);
- MP: 90% (2028) and 95% (2038);
- NOx: 80% (2028) and 95% (2038).

Experiences

Several tests carried out in the city and a pilot project with 18 battery electric buses (BEV).

Ongoing projects and planned projects

Pilot project carried out by the operator Transwolff with 18 standard BYD electric vehicles.

Political Commitments[2]

- Lei do Clima – 16802 (2018);
- PlanClima SP (2021);
- Municipal Law of Climate Change (nº 16.802/2018);
- Municipal Plan for Climate Action - PlanClimaSP (2021).

References:

1. - https://cidades.ibge.gov.br/brasil/sp/sao-paulo/panorama
   - INMET, 2021, https://clima.inmet.gov.br/GraficosClimatologicos/DF/83377
   - https://www.gov.br/infraestrutura/pt-br/assuntos/transito/conteudo-denatran/frota-de-veiculos-2021
   - INMET, 2021 https://portal.inmet.gov.br/normais

2. - Lei do Clima: https://leismunicipais.com.br/a/sp/s/sao-paulo/lei-ordinaria/2018/1680/16802/lei-ordinaria-n-16802-2018-da-nova-redacao-ao-art-50-da-lei-n-14933-2009-que-dispoe-sobre-o-uso-de-fontes-motrizes-de-energia-menos-poluentes-e-menos-geradoras-de-gases-d

Electric Buses

Targets for electric bus adaption

1. At least 2600 electric buses in operation by 2024.
2. 13,000 more electric buses in operation by 2038.
3. Full electrification by 2038.

Bus Technology Share

13981
ICE – Buses

0
Hybrid-Buses

219
E-Buses
201 Trolleybuses
18 BEV

Published by TUMI Management

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Status
June 2022