Zeppelin Visualizati...

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Pollution Comparison Station #2098200

Table	Morning	Midday	Night
Prediction (forward week)	✖(High)	✖(High)	✔(Low)
Carbon Monoxide (Y)	✖	✖	✔
Ozone(x1)	✖	✖	✔
Sulfure Dioxide(x2)	✖	✔	✔
Nitrogen Dioxide(x3)	✔	✖	✔
Particulate Matter(x4)	✔	✔	✔

Took 0 sec. Last updated by anonymous at May 07 2017, 3:30:42 PM.

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Next Week Pollution Comparison Station #209960

Pollution Level	Morning	Midday	Night
Prediction (Next week)	✖(unsafe)	✖(unsafe)	✔(safe)
Carbon Monoxide	✖	✖	✔
Ozone	✖	✖	✔
Sulfure Dioxide	✖	✔	✔
Nitrogen Dioxide	✔	✖	✔
Particulate Matter	✔	✔	✔

Took 0 sec. Last updated by anonymous at May 07 2017, 3:31:26 PM.

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Historical Pollution Comparison Station #209960

Polution Level	Morning	Midday	Night
Carbon Monoxide	✘(unsafe)	✘(unsafe)	✔(safe)
Ozone	✘	✘	✔
Sulfure Dioxide	✘	✔	✔
Nitrogen Dioxide	✔	✘	✔
Particulate Matter	✔	✔	✔

Took 0 sec. Last updated by anonymous at May 07 2017, 3:32:06 PM.

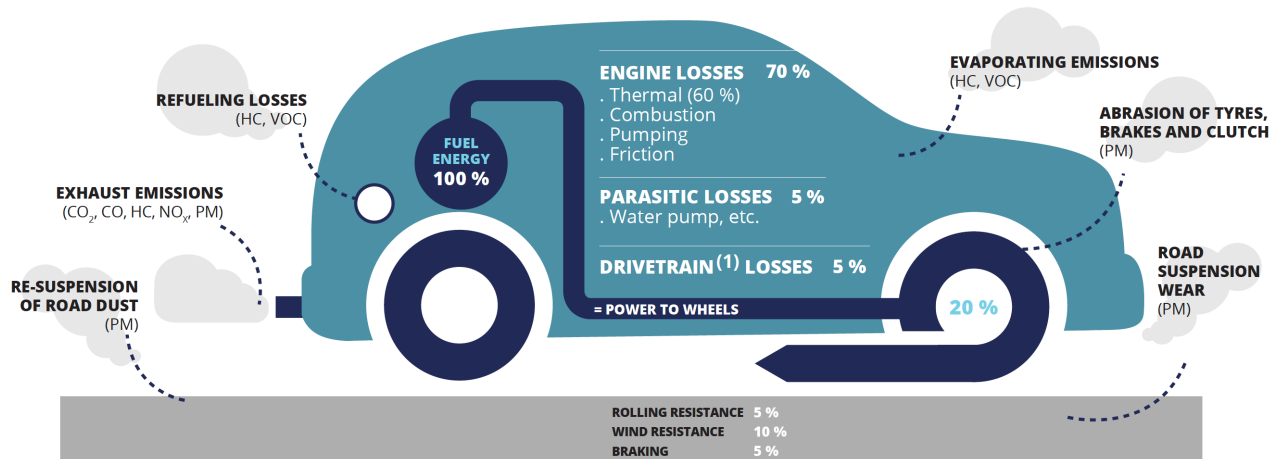# My visualization of road pollution

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Visualization of pollution

Vehicle emissions and efficiency

Fossil fuel powered road transport represents the most significant source of transport related air pollution. Each vehicle releases pollutants from a number of sources.

REFUELING LOSSES
(HC, VOC)

EXHAUST EMISSIONS
(CO_2, CO, HC, NO_x, PM)

RE-SUSPENSION OF ROAD DUST
(PM)

FUEL ENERGY 100 %

ENGINE LOSSES   70 %
. Thermal (60 %)
. Combustion
. Pumping
. Friction

PARASITIC LOSSES   5 %
. Water pump, etc.

DRIVETRAIN [1] **LOSSES   5 %**

= POWER TO WHEELS

EVAPORATING EMISSIONS
(HC, VOC)

ABRASION OF TYRES, BRAKES AND CLUTCH
(PM)

ROAD SUSPENSION WEAR
(PM)

20 %

ROLLING RESISTANCE	5 %
WIND RESISTANCE	10 %
BRAKING	5 %

[1] The drivetrain of a motor vehicle is the group of components that deliver power to the driving wheels. This includes the transmission, the axles and the wheels.

HC - Hydrocarbons; **VOC** - Volatile Organic Compound; **PM** - Particulate Matter; **CO** - Carbon monoxide; **CO$_2$** - Carbon dioxide; **NO_x** - Nittrogen oxides.

Source: EEA Report — Explaining road transport emissions — a non-technical guide (2016)

Took 1 sec. Last updated by anonymous at May 07 2017, 3:33:04 PM.

Pick a Data Station   FINISHED

Station 290845

Pollution data results: Std Dev: 23; Mean: 57, Max: 112 290845

Took 0 sec. Last updated by anonymous at May 07 2017, 3:39:11 PM. (outdated)

READY