

## Environment

# Transport & Mobility

In 2019, Migros focused on reducing CO<sub>2</sub> emissions from road transport. In addition to testing lorries with alternative drive technologies, it invested in expanding the charging infrastructure for electric cars in its branches' car parks.

Climate-friendly goods transport is a key component of the **Migros Group's climate and energy strategy**. In order to achieve its ambitious climate objectives, it works with research institutes, supports future-oriented projects, and makes continuous efforts to reduce emissions of the lorry fleet and increase the proportion of rail shipments.

## Investment in climate-friendly goods transport

As part of its **innovation partnership** with the Swiss Federal Laboratories for Materials Science & Technology (Empa), Migros is conducting test projects for lorries with different drive technologies and alternative fuels, such as electricity, hydrogen and Swiss biogas. In addition to assessing the practical feasibility, the tests are also intended to enable detailed analysis of energy consumption and CO<sub>2</sub> emissions.

In Zurich, Migros collaborated with the car manufacturer Mercedes-Benz to test the "eActros" – the first fully electric lorry to be developed directly for series production (rather than retrofitted). Migros Basel has been using its first electric lorry to transport goods from the operating centre to the branches since 2019. The measure is part of the objective to switch its entire fleet of 33 lorries to sustainable drive systems by 2030. This should reduce the CO<sub>2</sub> emissions of the regional lorry fleet by 80% compared with 2019.

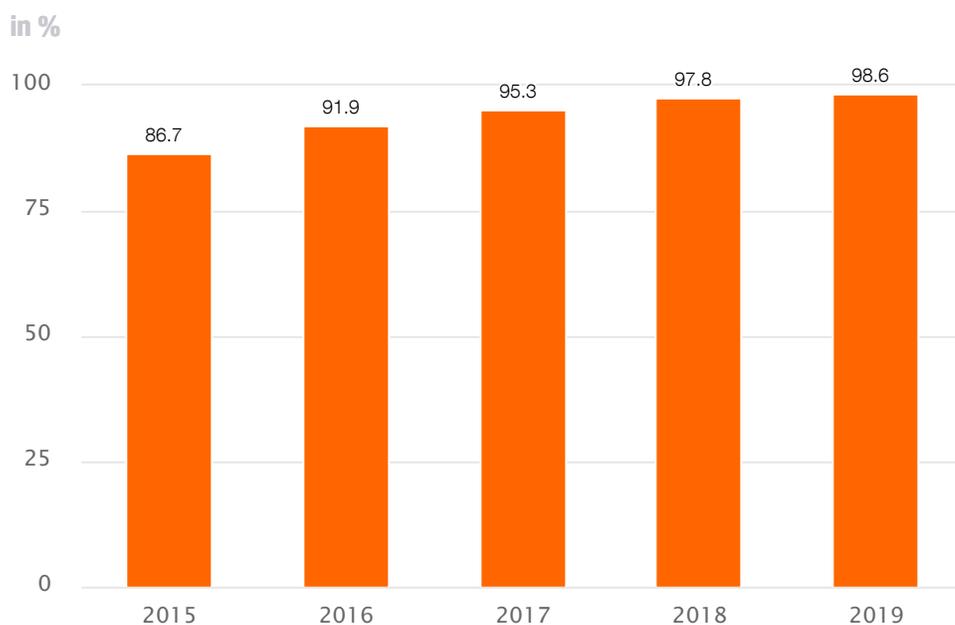
In eastern Switzerland, tests on three gas-powered lorries are focusing on whether they can be supplied with **biogas from the region**, which would reduce CO<sub>2</sub> emissions by 82% in comparison with diesel vehicles.

In addition, Migros Geneva has been stepping up **local hydrogen production on its company premises** since 2019. Using an electrolyser, the electricity produced by the solar plant on the roof of the operations centre is converted to hydrogen, which can then be used to power fuel cell lorries.

In 2019, 98.6% of kilometres driven were covered by low-emission lorries that meet the strict Euro 5 or 6 emission standards, thus **further reducing carbon dioxide and fine dust emissions**.

## Development of kilometrage of low-emission lorries

### Proportion of kilometres with Euro 5 and 6 <sup>[1]</sup>



<sup>1</sup> In-house lorry fleets of the Migros Cooperatives, distribution centres and Saviva

## CO<sub>2</sub> emissions from goods transport with lorries

Migros Group, CO <sub>2</sub> emissions from goods transportation with lorries (in-house fleet) <sup>[1]</sup>	2015	2016	2017	2018	2019	Change from previous year
CO <sub>2</sub> emissions from fuel, absolute (in 1'000 tonnes CO <sub>2</sub> )	24.2	23.3	23.3	22.6	23.5	4.0%
CO <sub>2</sub> emissions from fuel, specific (in g CO <sub>2</sub> /tonne kilometres) <sup>[2]</sup>	28.2	26.4	26.4	25.4	25.2	-0.8%

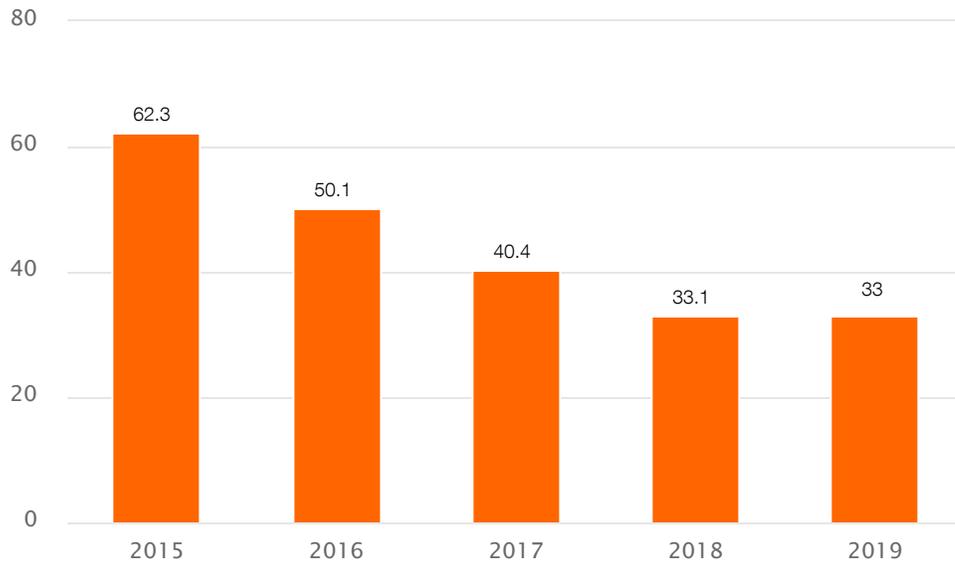
<sup>1</sup> In-house lorry fleets of the Migros Cooperatives, distribution centres and Saviva

<sup>2</sup> Tonne kilometres (tkm) according to HVF survey

## **Carbon dioxide and fine dust emissions from goods transport with lorries**

## Migros Group, carbon dioxide <sup>[1]</sup>

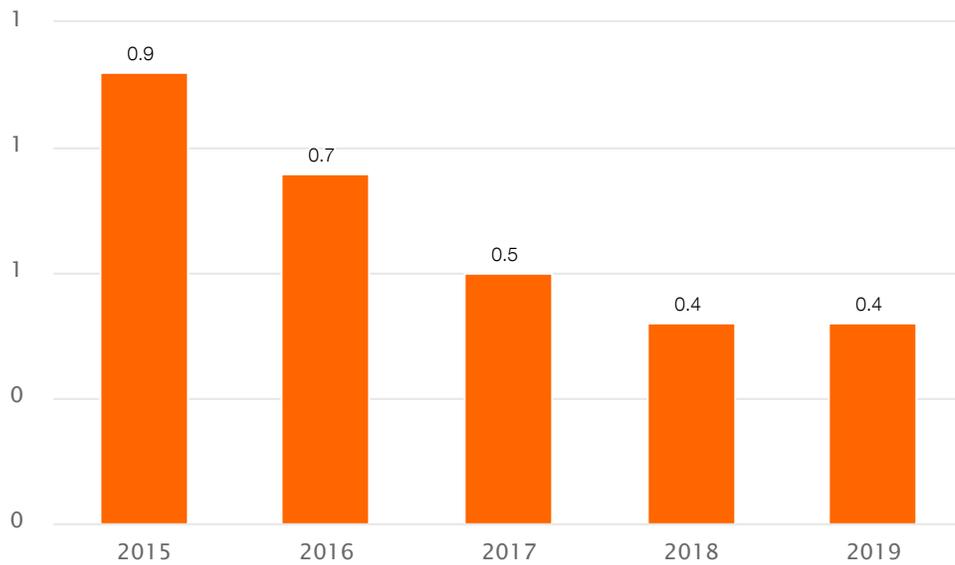
in tonnes



<sup>1</sup> Calculated on basis of kilometres and Euro categories (in-house lorry fleet Cooperatives, distribution centers and Saviva)

## Migros Group, fine dust emissions <sup>[1]</sup>

in tonnes



<sup>1</sup> Calculated on basis of kilometres and Euro categories (in-house lorry fleet Cooperatives, distribution centers and Saviva)

## Rail transport

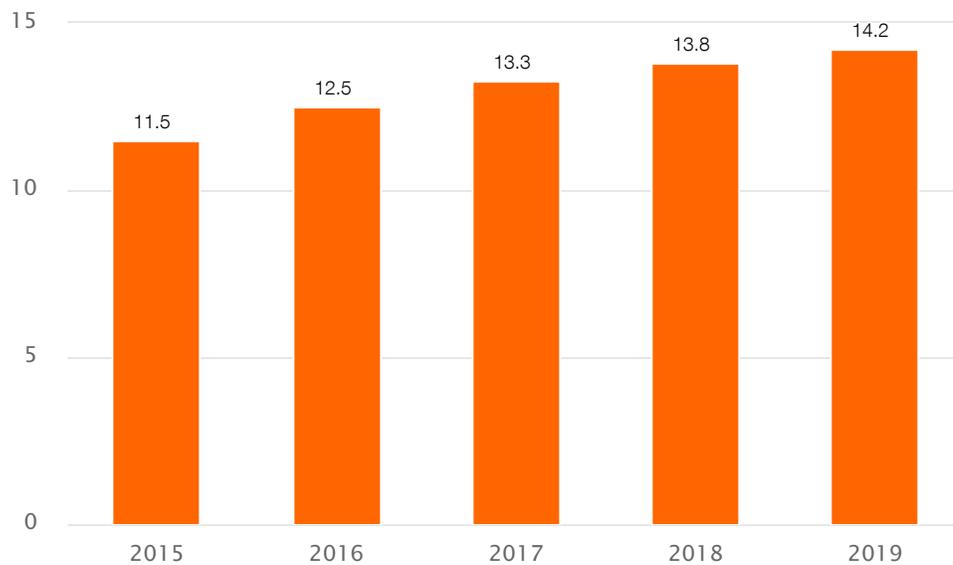
In Cooperative Retailing, Migros remains the **number one for rail freight** in terms of turnover. About half of all shipments between Migros Industry companies and the national and regional Migros distribution centres are sent by rail.

In 2019, SBB Cargo's goods wagons covered 14.2 million km in Swiss freight traffic for the Migros Group, representing an increase of 2.9% in comparison with the previous year.

### Development of rail transport, Migros Group

#### Migros Group, rail transport kilometrage <sup>[1]</sup>

in million km



**1** Domestic transport by Cooperative Retailing, M-Industry and the retailers Globus and Migrol

## **CO<sub>2</sub> offsetting for air transport**

In 2019, Cooperative Retailing reduced the volume of goods transported by air freight by almost 10% in comparison with the previous year. Since 2018, Migros has been offsetting the CO<sub>2</sub> emissions from air freight in collaboration with myclimate. On the basis of an internal pricing system, a specific amount is paid into a **Migros climate protection fund** (my-M climate fund) for each tonne of CO<sub>2</sub> generated by air transport. The fund is used to initiate climate protection projects in Migros' value chain. At the end of 2019, six projects were conducted in the areas of energy-efficient heating systems, employee mobility, photovoltaics and electromobility.

## **Expansion of recharging network for electric cars**

Migros is committed to environmentally friendly private transport and is a proponent of electromobility. By the end of 2019, customers at 75 Migros branches were able to **charge their electric cars** for free at a total of 180 parking spaces. With certificates of origin, the electricity used for charging can be declared as Swiss green electricity.