SUSTAINABLE FLYING?
HOW BIOFUELS CAN REDUCE CO₂ EMISSIONS FROM FLYING

Summary for lazy executives

I was wondering, they say flying emits a lot of CO₂, but how much actually?

The big problem is that emissions are growing rapidly because people like themselves tend to fly more often.

During this 7-hour flight alone, we'll emit around 12.6 kg of CO₂, which is as much as we save each year by using vegetables.

I just read aviation is responsible for around 2% of global emissions.

I am proud to say we are flying on biofuel today. Don't worry, it's the same as normal jet fuel.

More than 100,000 flights have used biofuels over the last 10 years.

Our biofuel is produced from jatropha oil, a waste material of biological origin. This fuel reduces CO₂ emissions by 80% compared to fossil fuel.

I imagine there is not enough used cooking oil to save everyone for one biofuel flight, right?

Yes, the limited supply of waste oils is part of the problem.

We need to develop new production processes to use more sustainable and sustainable biofuels or even innovative waste!

But I'd say the costs are the main issue currently. The price of jatropha is about 2 to 3 times higher than fossil jet fuel.

So what needs to change so that all airplanes use biofuels?

First, we need to guarantee that biofuels reduce CO₂ emissions and avoid adverse sustainability impacts, such as deforestation.

Second, the cost of biofuel needs to drop by sharing more experience with the production of biofuels and supporting the development of new conversion processes.

Third, we need money to support the production of biofuels.

If we do that, I am confident that we could make this plane fly on 10% biofuel for about 4.50.- per passenger.

In the short term, this probably requires government support.

In the longer term, you would usually integrate this cost into the price of all flight tickets.

Yes, and it did not smell like tangerine trees at all! Biofuels seem to be a good solution to reduce CO₂ emissions of flying, provided they are produced sustainably. At least until we fly all electric.

That's right! I have a great book for you in case you want to know more about the production cost, climate impact and future supply of biofuels. Enjoy your stay!