

Airline presentation template

Lufthansa scenario

Hypothesis - General informations

Period considered : 2023 - 2030

2023 CO2 emissions : 22,0 mtCO2eq.

Fleet hypothesis :

A320 : 126 planes

A320_neo : 39 planes

17 planes replaced per year

0 additional planes per year

emission reduction rate by new planes : 15%

EU market share : 43%

2023 Free Allowances : 43%*22,0 mtCO2eq.

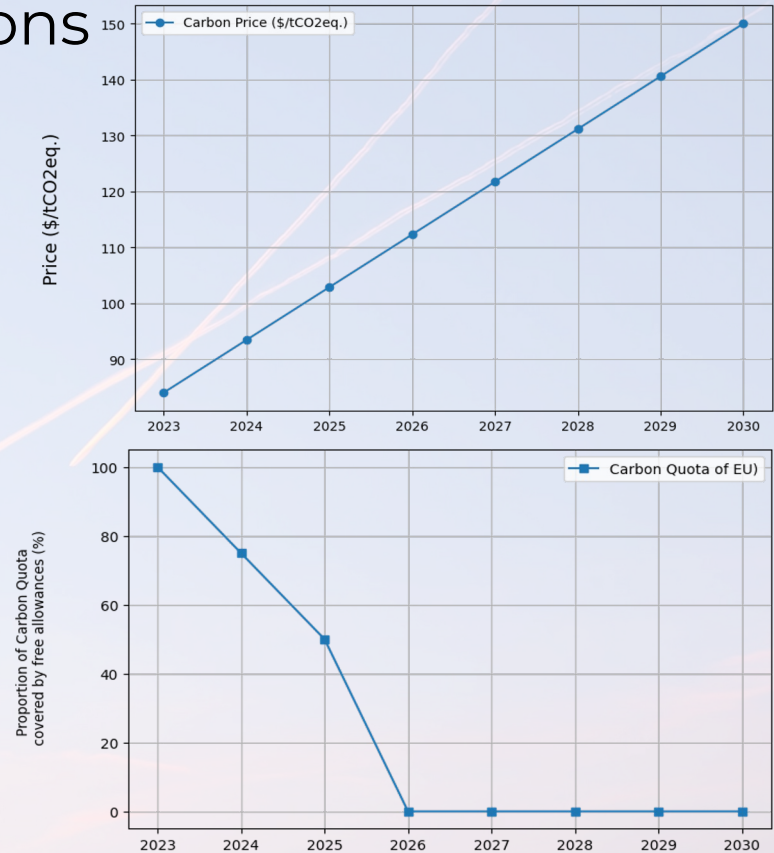
SAF price : 1,92 USD/L

Kerosene price : 0,7 USD/L

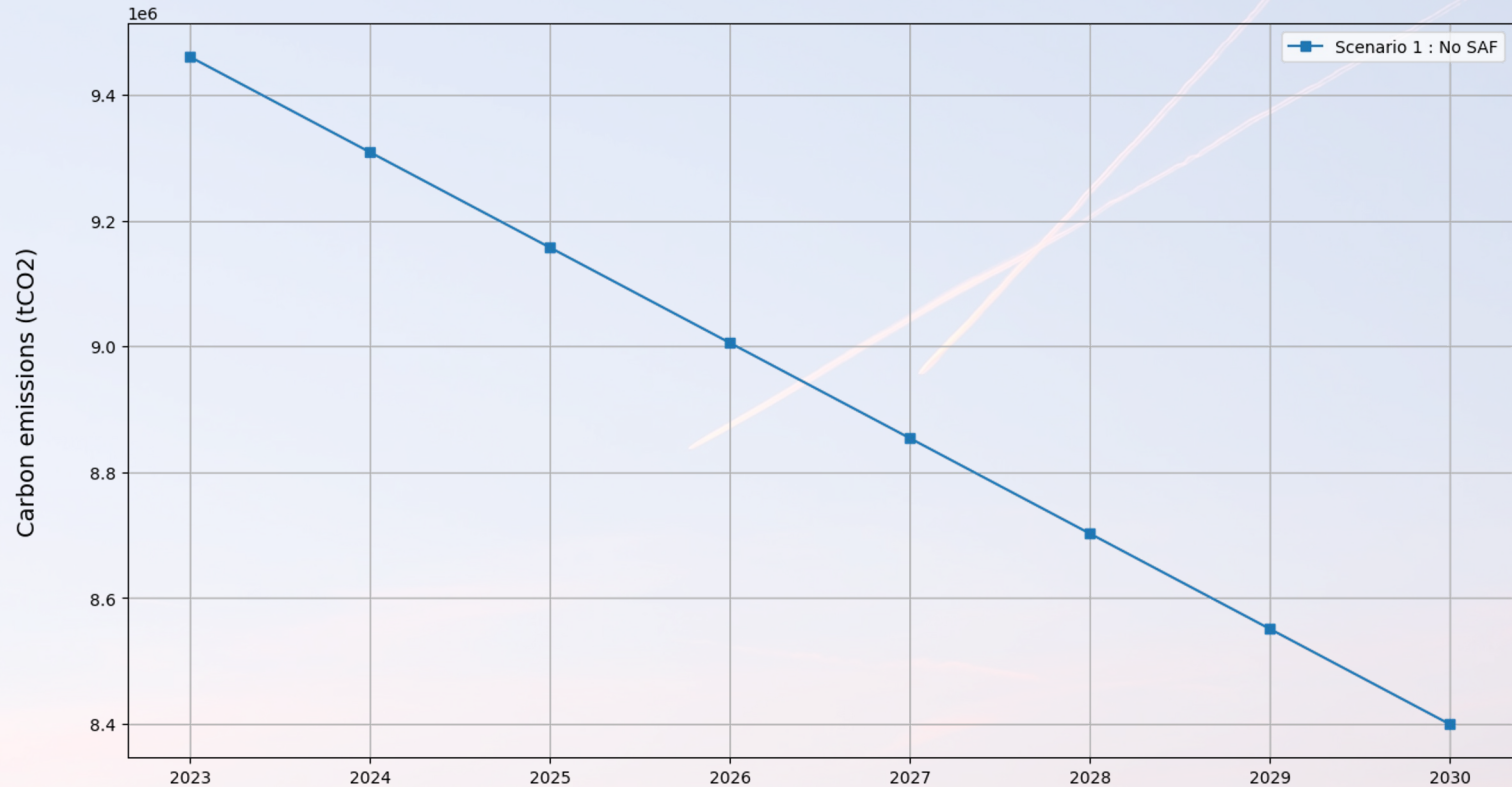
Core LCA SAF : 0 gCO2eq./MJ

Core LCA kerosene : 88,8 gCO2eq./MJ

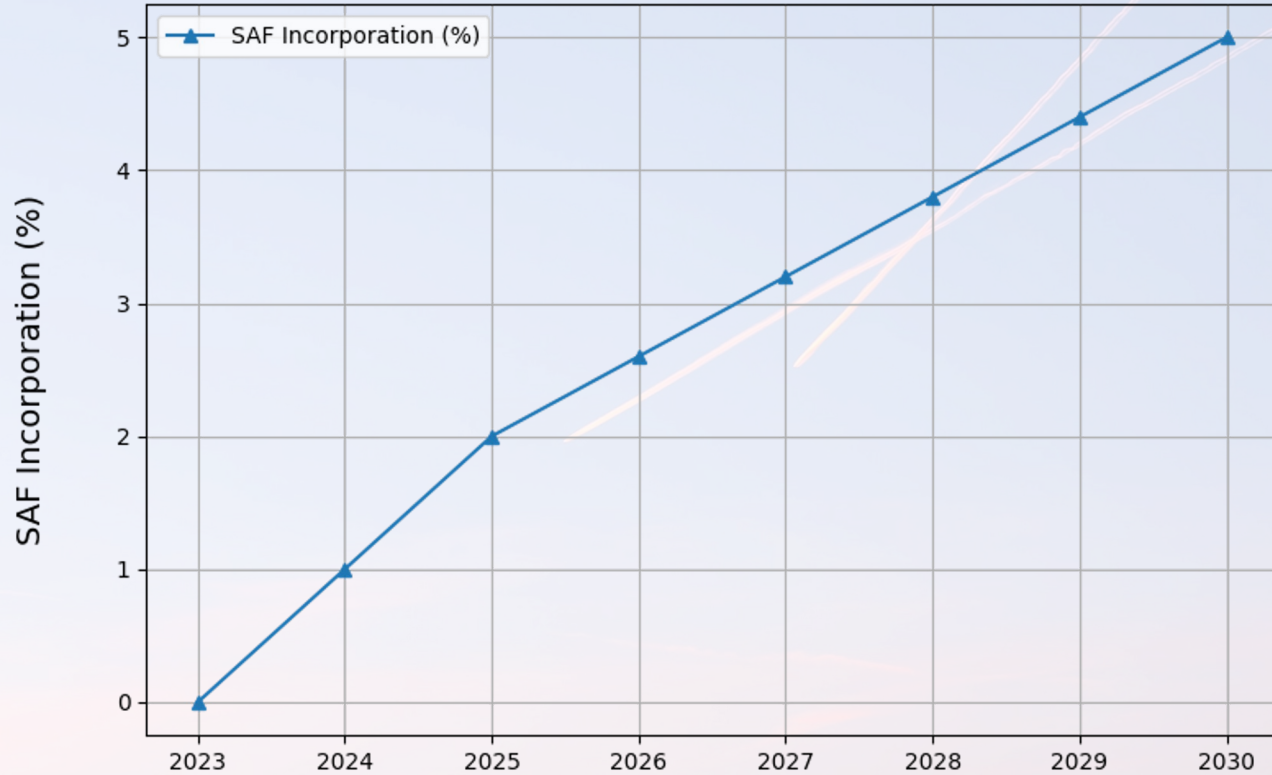
Free allowances from EU : 70% of additional costs



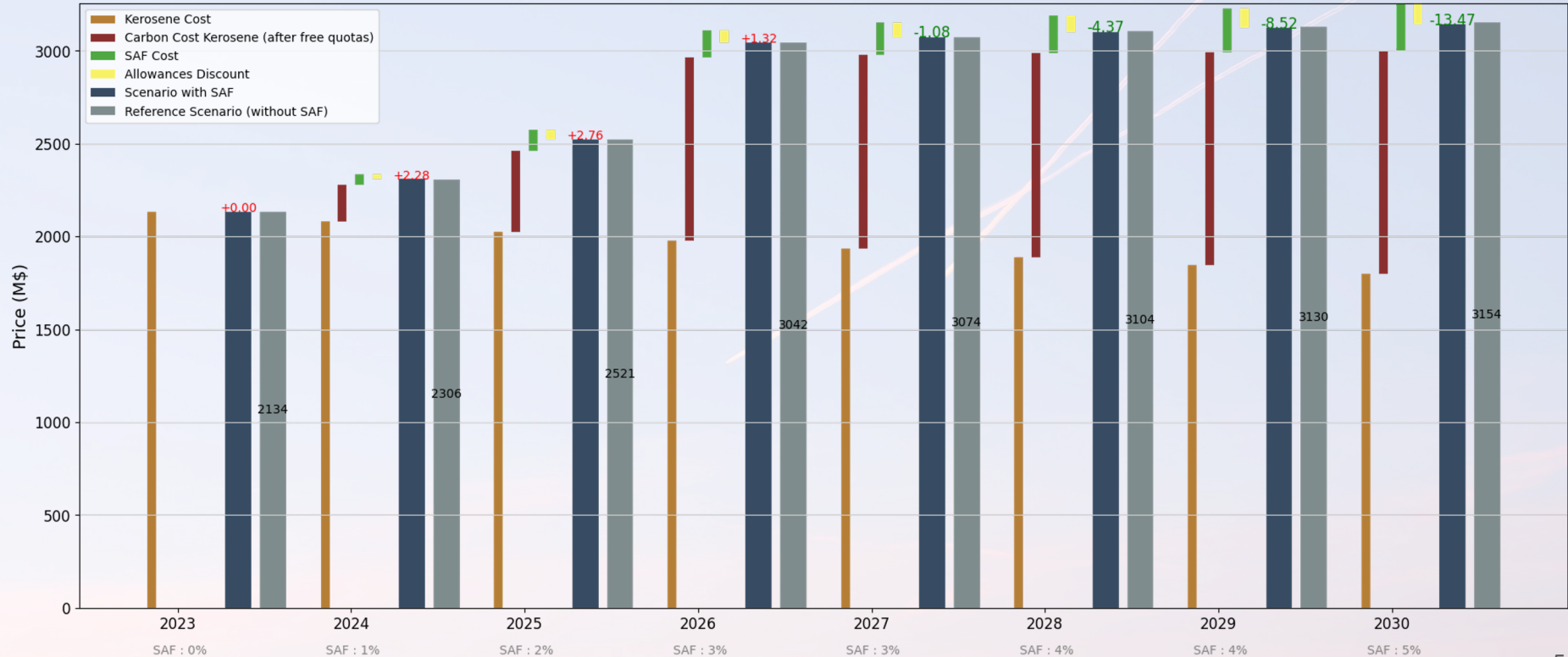
Hypothesis - Carbon emissions



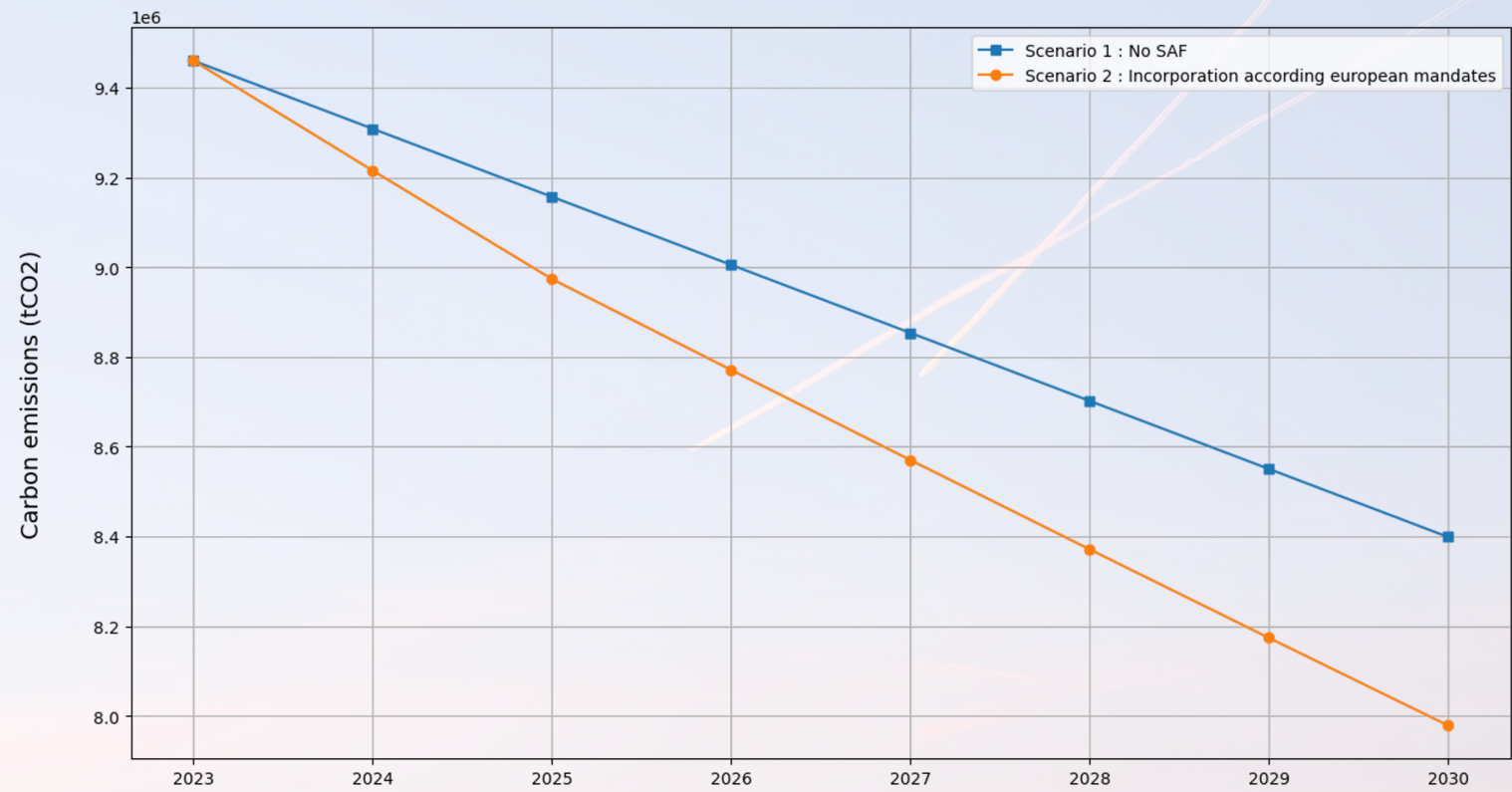
Hypothesis - Incorporation rate



Results - costs previsions



Results - CO2 emissions



Results - Optimal carbon price for SAF encouragement

CO2 must reach a certain price to encourage airline to use SAF. This price limit only depends on the gap between SAF price and kerosene price.

