



PERFORMANCE REPORT 2020 - 2024

ENVIRONMENT

January 2021



making the difference

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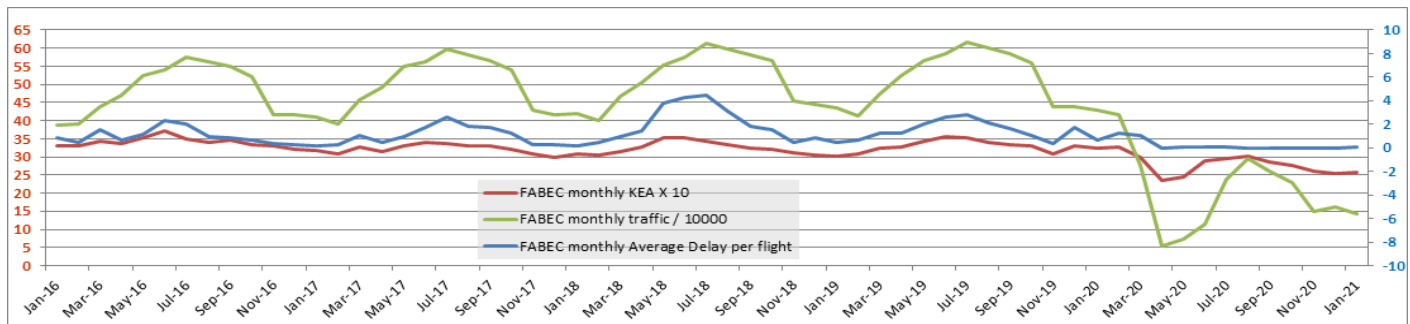
Description & Analysis

ENV KPI #1: KEA/HFE at FABEC level (excl. 10 best/worst days)

In the FABEC area, the yearly rolling average value of efficiency of flown trajectory (expressed in KEA) was 97,13% for the period of February 2020-January 2021, excluding the 10 best and 10 worst days. This is the highest yearly rolling KEA value since 2015. The value has increased by 0.46pp compared to 96,67% in the period February - January 2019/2020. The value in January 2021 is 0.07pp greater than the value of one month prior and it has been increasing slowly but steadily during the last year from 96,66% in the period March-February 2020. The indicator is 0.38pp above the FABEC target for 2021, which was set to 96,75%. The difference between KEA and KEP is 3.08pp, which is 0.05pp bigger than one month prior.

ENV PI#1: HFE based on Actual at FABEC level (including all days)

The flight efficiency (expressed in KEA including all days on monthly bases) has reached 97,43% in January 2021, which is 0.03pp lower compared to December 2020 (97,46%) and 0.22pp lower compared to April 2020 (97,65%), which is the highest value since January 2016. The KEA in January 2021 has increased drastically by 0.66pp compared to the same month in 2020 (KEA in January 2020 was 96,77%). The reason for such an increase in flight efficiency is a significant decrease of the traffic volume caused by the corona crisis. This positive correlation between flight efficiency and traffic can be seen in the graph below.



ENV PI#2: KEP/HFE based on Filed FPL at FABEC level (excl. 10 best/worst days)

The KEP 12 month rolling average indicator was 94,05% for January 2021. This is the highest yearly rolling KEP value since 2015. It has increased by 0.10pp as compared to 93,95% in January 2020 and increased by 0.02pp compared to the 12-month rolling average of December 2020. The rolling average has been increasing slowly but steadily during the year of 2020 from 93,94% in March (the lowest value of the year) until it reached 94,05% in January 2021.

ENV PI#3: HFE based on Filed FPL at FABEC level (including all days)

The figure shows a decrease of flight efficiency in January 2021 by 0.06pp compared to December 2020 (94,21%) and a significant increase in flight efficiency in January 2021 by 0.22pp compared to the value in January 2020 (94,15% in January 2021 vs 93,93% in January 2020).

ENV PI#4: HFE based on Actual at State level (including all days)

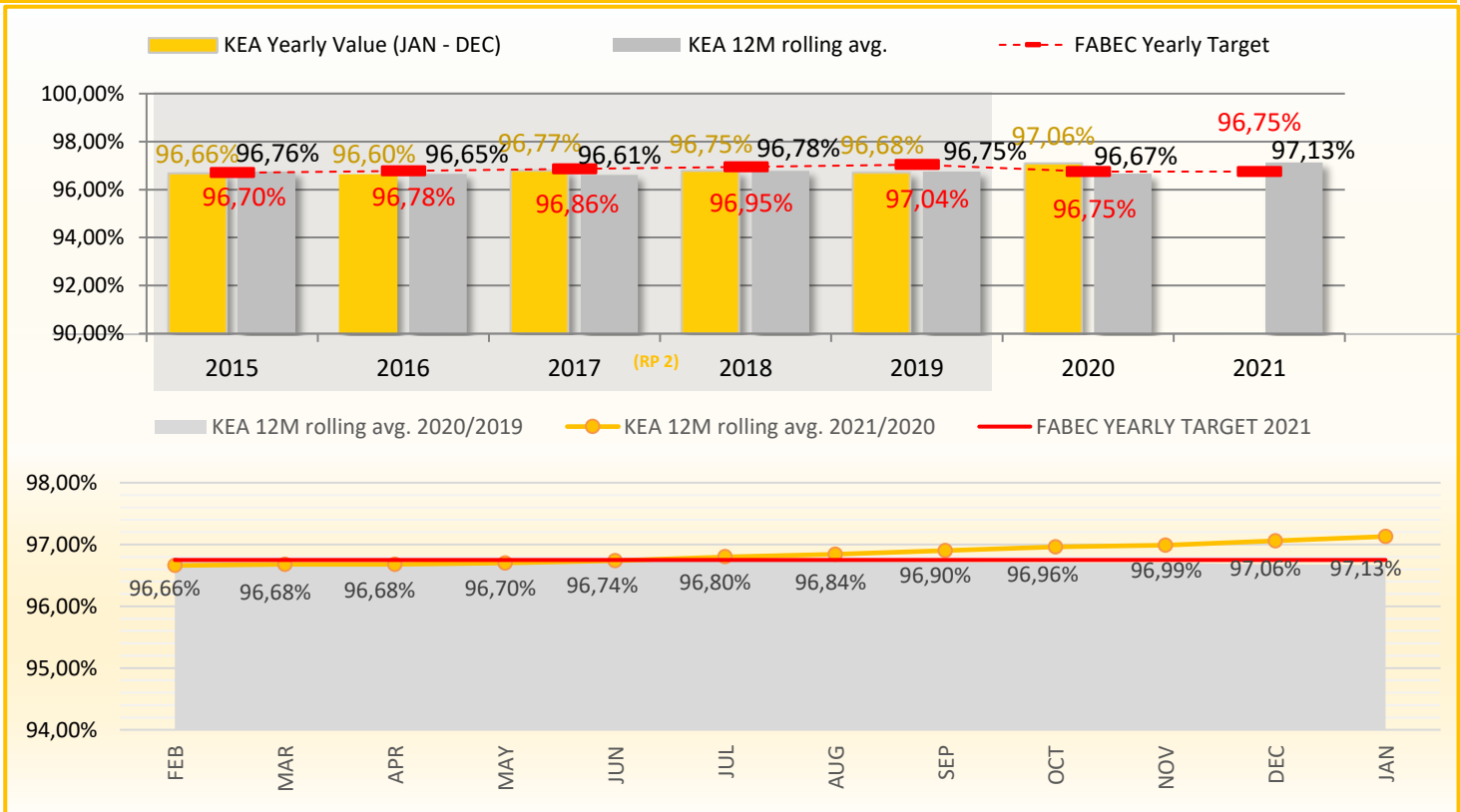
At national level, all counties demonstrated a significant increase of flight efficiency based on actual trajectories in January 2021 compared to January 2020.

ENV PI#5: HFE based on Filed FPL at State level (including all days)

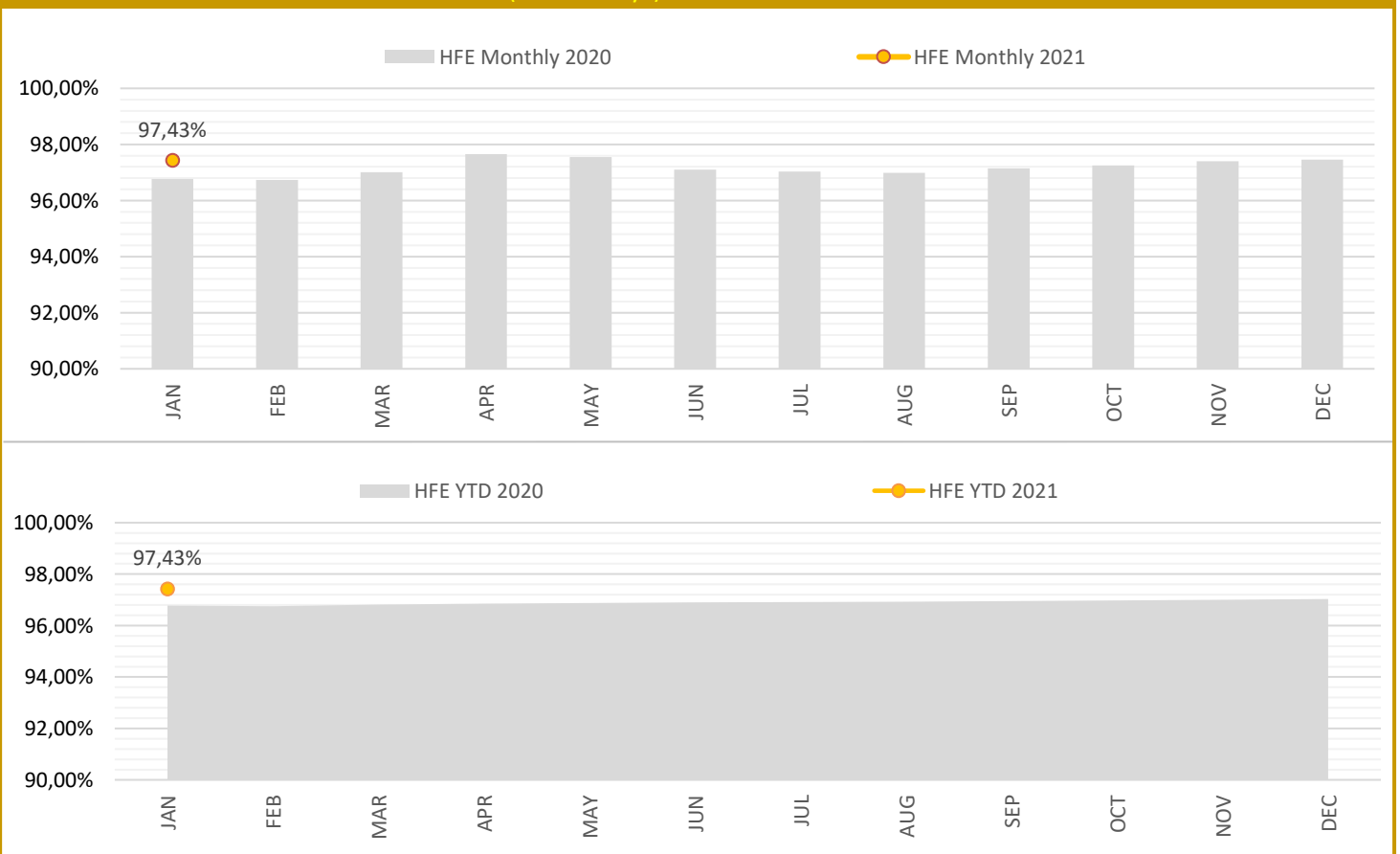
At national level, two countries demonstrated an increase in flight efficiency based on the filed FPL compared to January 2020: Germany and Switzerland. In contrast, a decrease of flight efficiency based on the filed flight plan was observed in Belgium, France, and the Netherlands.

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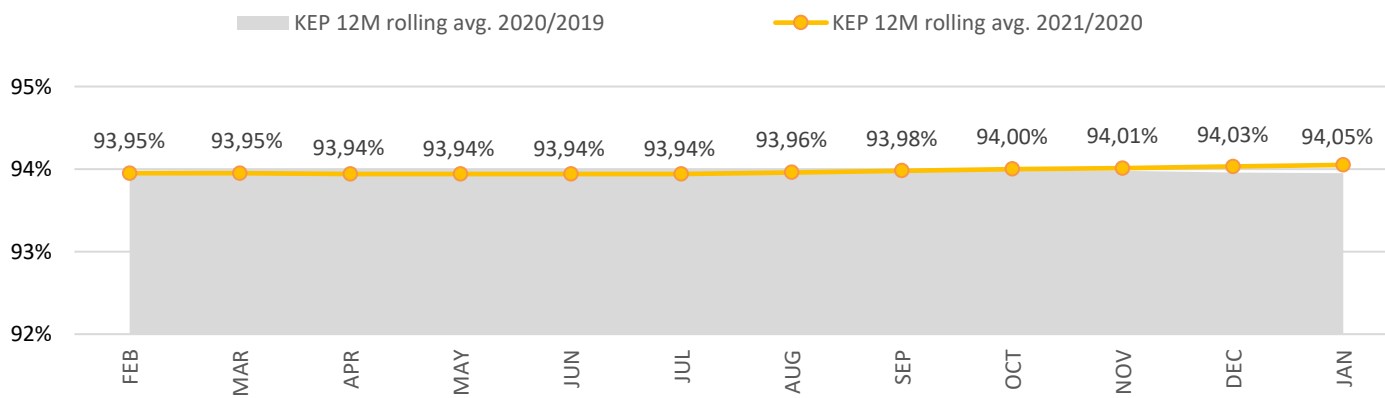
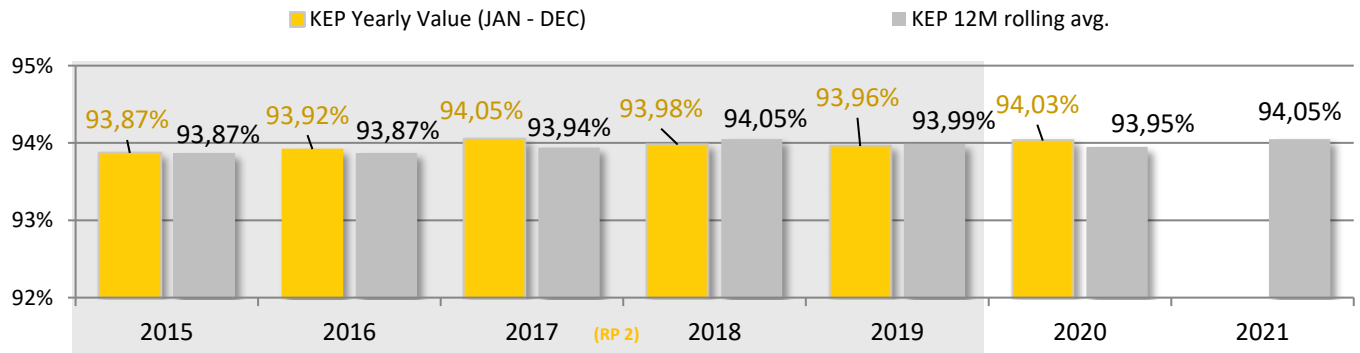
KPI #1: KEA/HFE at FABEC level (excl. 10 best/worst days)



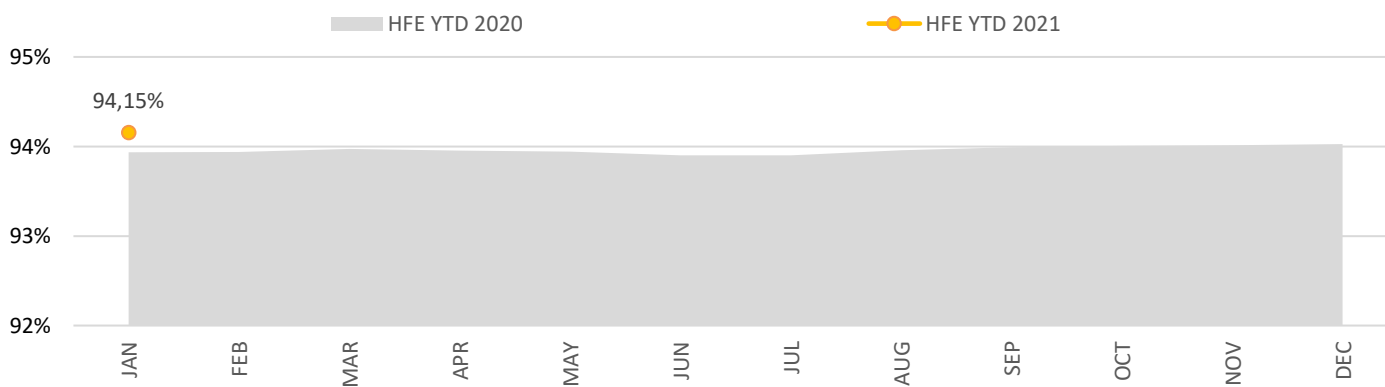
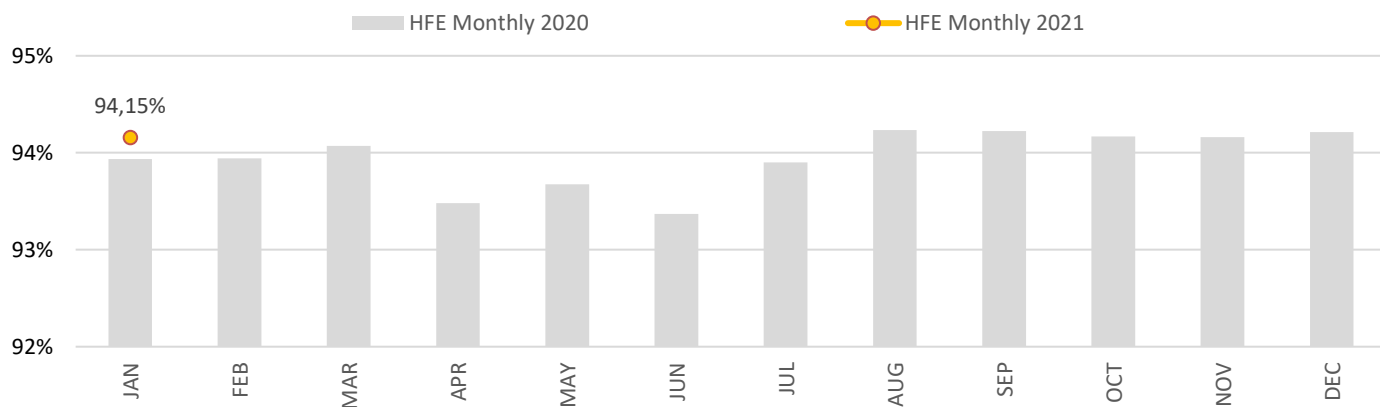
PI #1: HFE based on Actual at FABEC level (incl. all days)



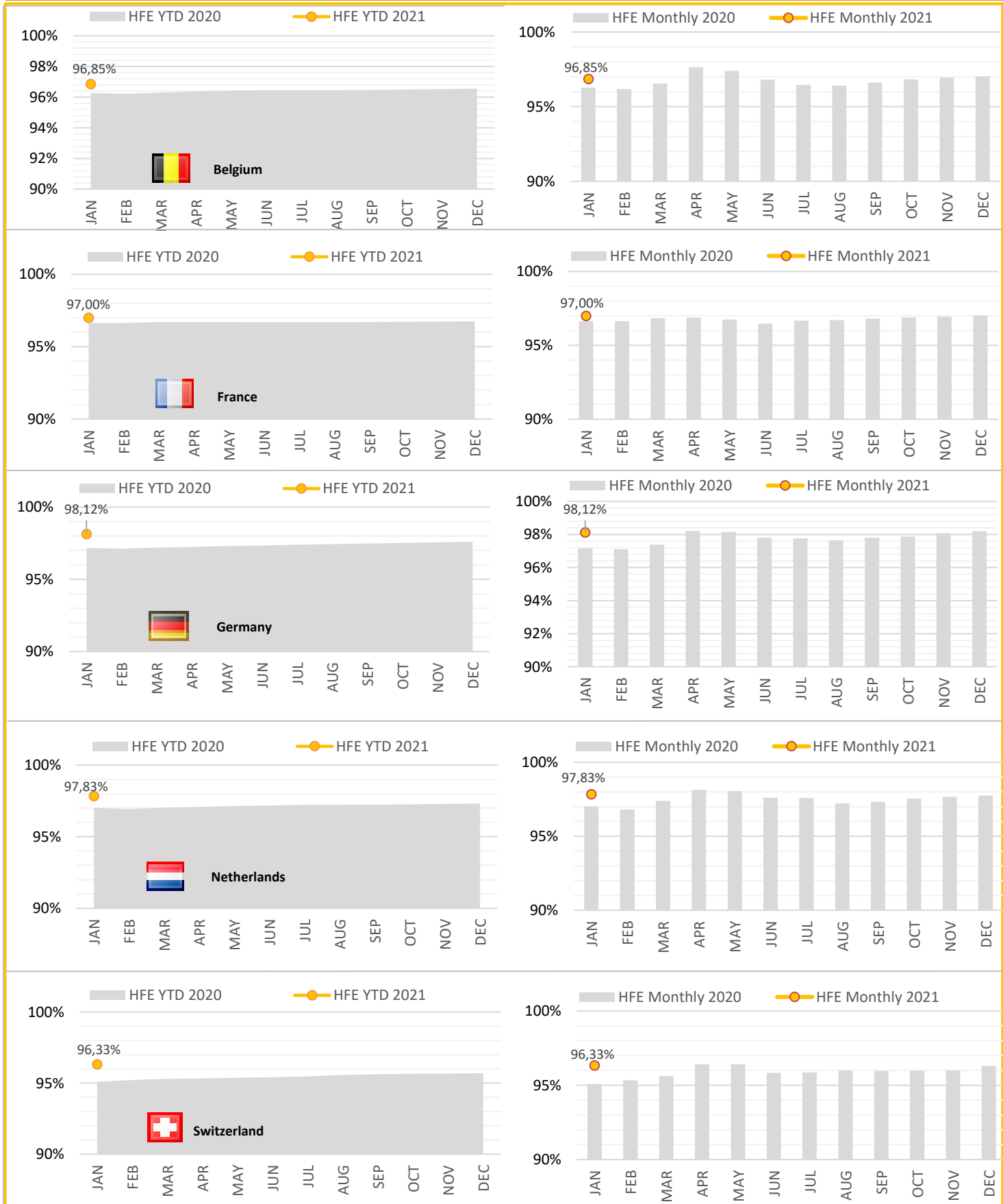
PI #2: KEP/HFE based on filed FPL at FABEC level (excl. 10 best/worst days)



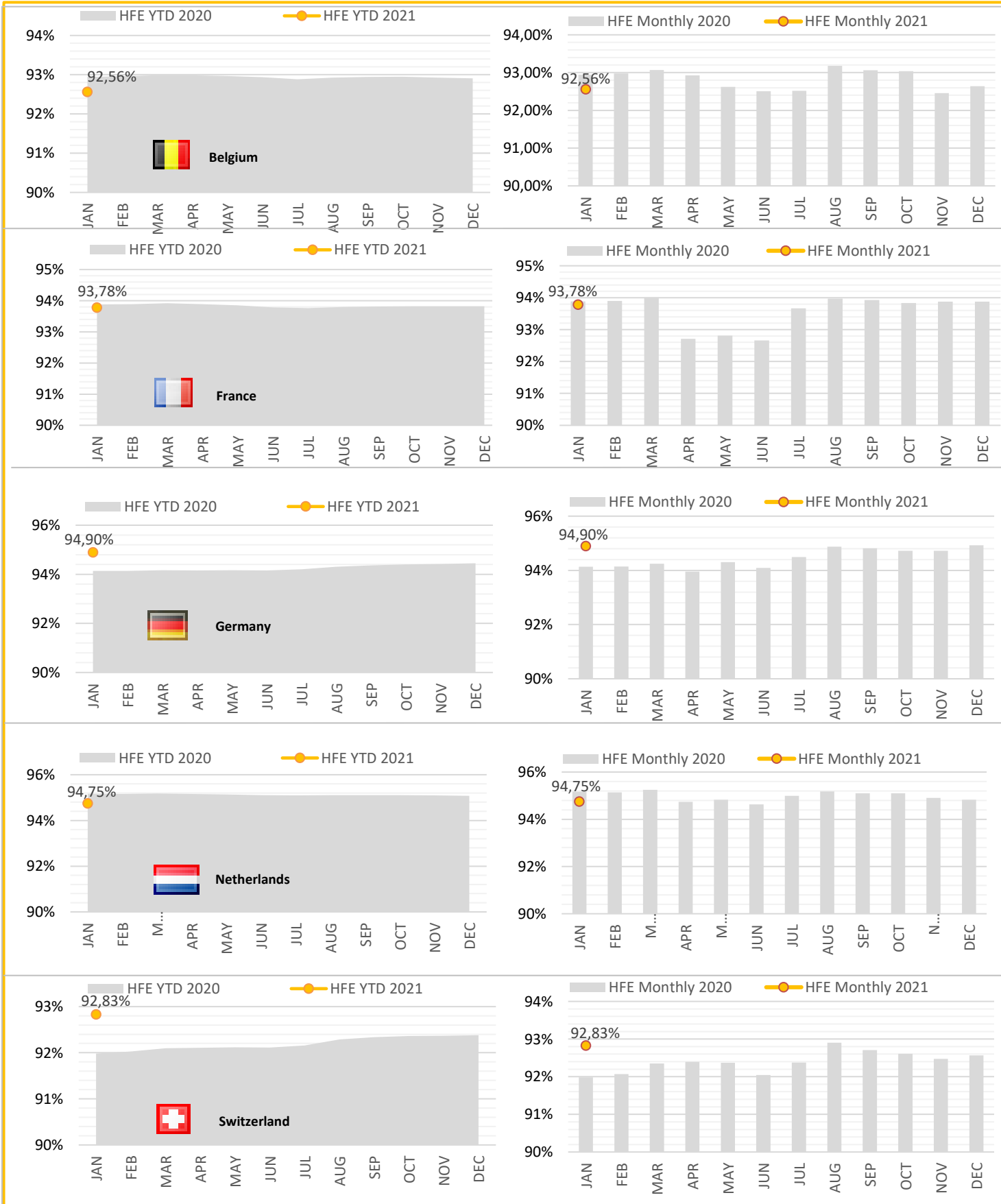
PI #3: HFE based on filed FPL at FABEC level (incl. all days)



PI #4: HFE based on Actual at State level (incl. all days)



PI #5: HFE based on filed FPL at State level (incl. all days)

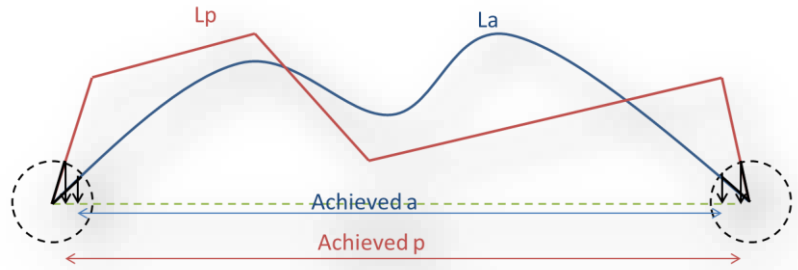


Glossary

KEP / KEA definition

KEP compares the length of the en route section of the last filed flight plan L_p with the corresponding Achieved p of the great circle distance.

KEA compares the length of the en route section of the actual trajectory L_a with the corresponding Achieved a of the great circle distance.



$$KEA = (L_a - \text{Achieved } a) / \text{Achieved } a$$

$$KEP = (L_p - \text{Achieved } p) / \text{Achieved } P$$

KEP is the reference for SES-wide improvement with a global target set by the European Commission. KEA is the reference for FAB improvements with individual targets set by the European Commission.

Achieved distance calculation

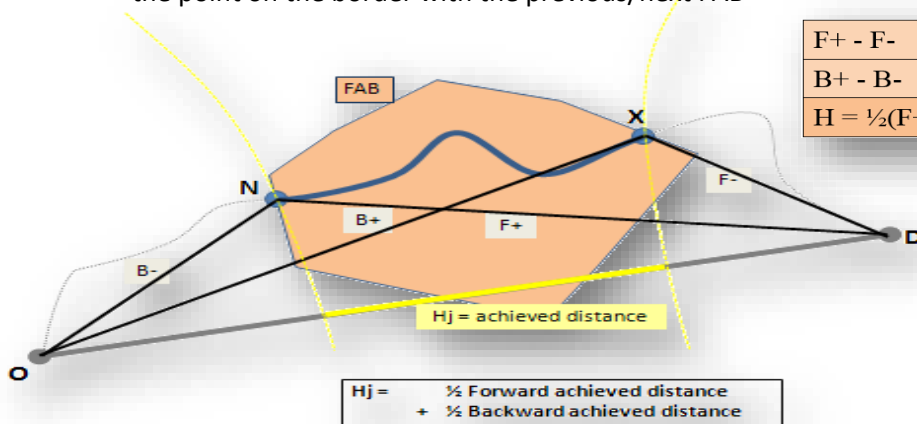
4 reference points are identified for KEP/KEA calculation :

The **O**rigin and **D**estination points are the targets of the trajectory and the reference points for the Great Circle:

- the airports inside the SES area
- when the airports are outside the SES area, they are the trajectory point at the SES border

The **eN**try and **eX**it points are the first and last points of the part of the trajectory considered within a FAB:

- the point on the 40NM circle around departure or arrival airport
- the point on the border with the previous/next FAB



F+ - F-	Forward achieved distance
B+ - B-	Backward achieved distance
$H = \frac{1}{2}(F+ - F-) + \frac{1}{2}(B+ - B-)$	Achieved distance

$$H_j = \frac{1}{2} \text{ Forward achieved distance} + \frac{1}{2} \text{ Backward achieved distance}$$

TABLE OF ABBREVIATIONS

ADEP - Airport of Departure

ANSP - Air Navigation Service Provider

ATFM - Air Traffic Flow Management

FABEC - Functional Airspace Block Europe Central

TMA - Terminal Manoeuvring Area, delimited by a 40 NM circle around the origin and destination airport.

ADES - Airport of Destination

PRU - Performance Review Unit

YTD - Year to Date value

FPP - FABEC Performance Plan

FABEC Performance Report Environment:

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www.FABEC.eu

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The FABEC PMG has made every effort to ensure that the information and analysis contained in this document are as accurate and complete as possible.

Only information from quoted sources has been used and information relating to named parties has been checked with the parties concerned.

Despite these precautions, should you find any errors or inconsistencies we would be grateful if you could please bring them to the FABEC PMGs attention.