Air Traffic Statistics Report

July 2023

AZERAERONAVIGATION

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1 | Baku FIR Air Traffic Statistics Data (IFR movements)

1.1 General Air Traffic Statistics Data

23017 acft

The number of IFR movements within Baku recorded in July

743 acft

Average number of IFR movements per day

+29.3 %

Comparison with July 2022

The number of IFR movements within Baku FIR recorded in July is **23017 ACFT.**

Average number of IFR movements per day is **743 ACFT** (Peak day, July 07, 2023 – **779 ACFT**; low day, July 31, 2023 – **707 ACFT**).
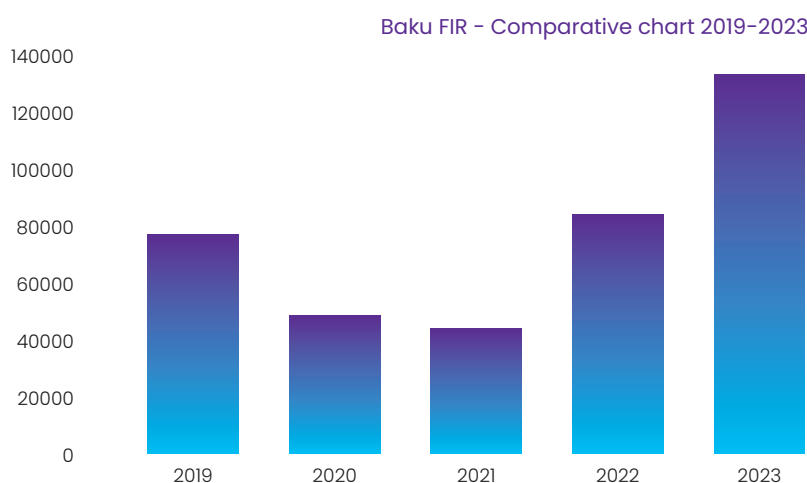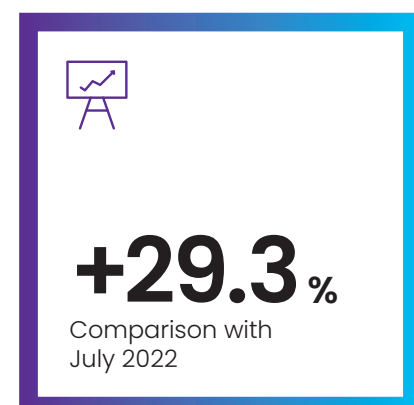
Comparison with July 2022 – **+29.3%.**

Baku FIR

● 2022   ● 2023
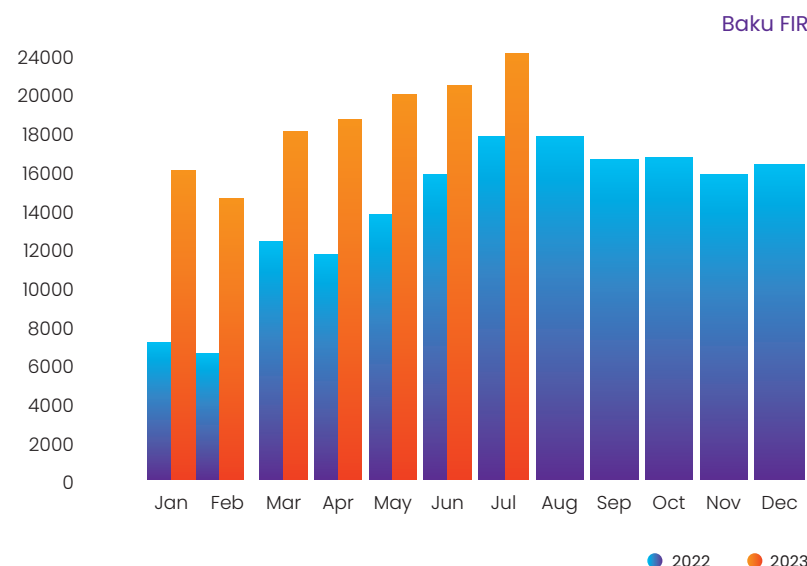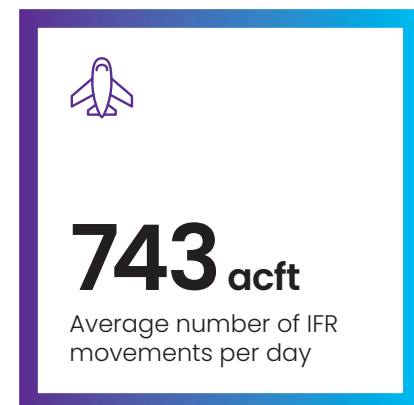
The number of IFR movements within Baku FIR recorded for seven months 2023 is **131372 ACFT.**

Average number of IFR movements per day is **620 ACFT.**

Comparison with the same period of 2022 – **+51.8%.**

Baku FIR - Comparative chart 2019-2023

1.2 Traffic Segments

1.2.1 The number of IFR movements within Baku FIR recorded in July is **23017 ACFT**, where **16194 ACFT** are overflight traffic and **6823 ACFT** are aerodrome movements.

● AD (IFR)   **30%**
● OVF (IFR)   **70%**
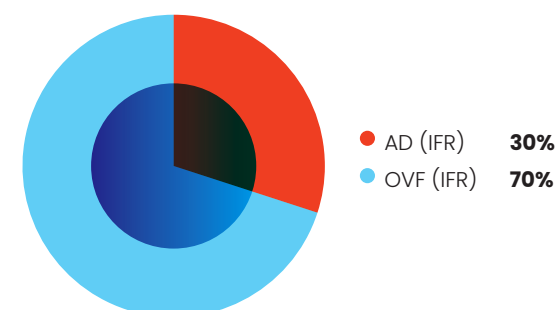
1.2.2 Total number of movements within Baku FIR recorded in July is **24146 ACFT**, where **23017 ACFT** are IFR movements and **1129 ACFT** are VFR movements.

Average number of movements per day is **779 ACFT.**

Comparison with July 2022 – **+25.7%.**

● VFR   **5%**
● IFR   **95%**
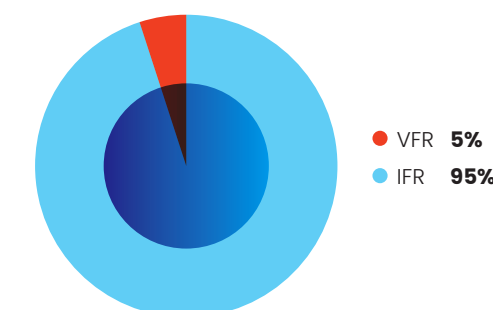
1.3 Capacity vs traffic demand

Highest traffic recorded   **56 ACFT** (July 03, 2023 23:00-00:00)

Peak hour (July average data):
00:00-01:00	**50 ACFT**
23:00-00:00	**43 ACFT**
11:00-12:00	**38 ACFT**
14:00-15:00	**38 ACFT**
07:00-08:00	**36 ACFT**
12:00-13:00	**36 ACFT**

The following picture reflects the traffic demand by hour vs capacity of Baku FIR.

● Average hourly traffic   ● Highest traffic recorded   ● Capacity
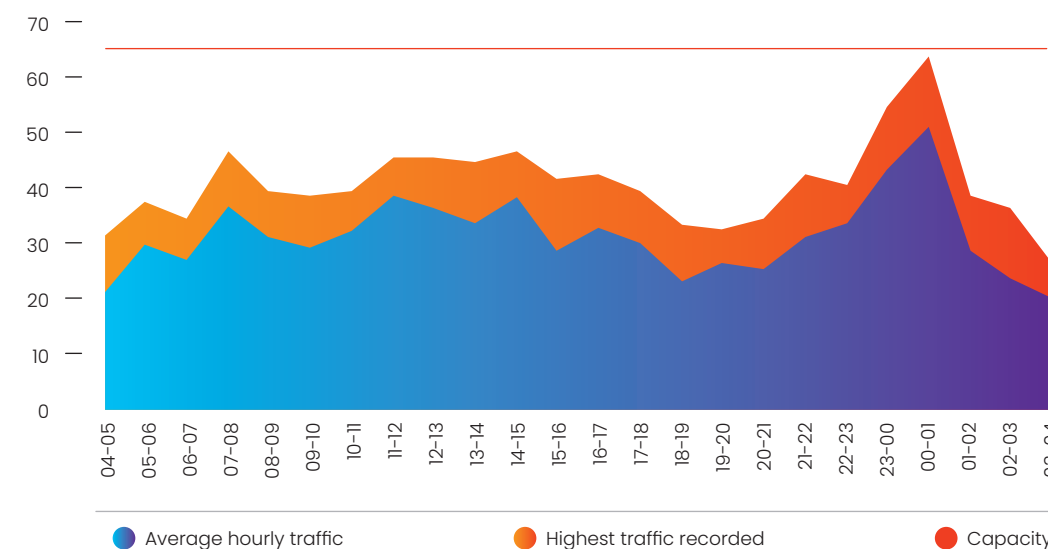
2 | Aerodrome Movements Statistics Data

2.1 Heydar Aliyev International airport

6576 acft

The number of IFR movements within Baku recorded in July

213 acft

Average number of IFR movements per day

+12.1 %

Comparison with July 2022
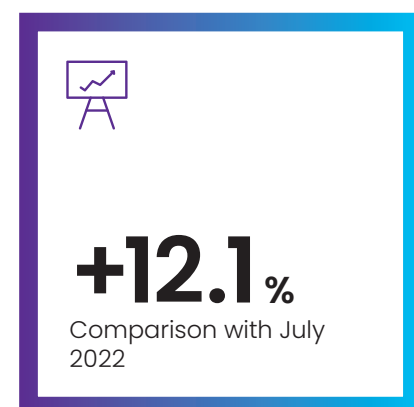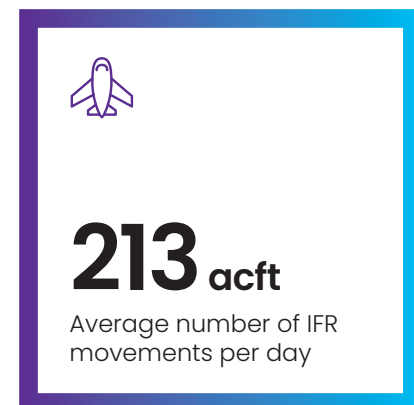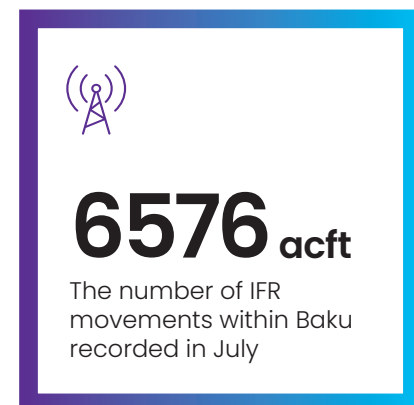
2.1.1 Total number of movements at Baku/Heydar Intl' Aliyev airport recorded in July is **6576 ACFT.**

Average number of movements per day is **213 ACFT** (Peak day, July 07, 2023 – **235 ACFT**; low day, July 29, 2023 – **190 ACFT**).

Comparison with July 2022 – **+12.1%.**

UBBB - Baku/Heydar Aliyev
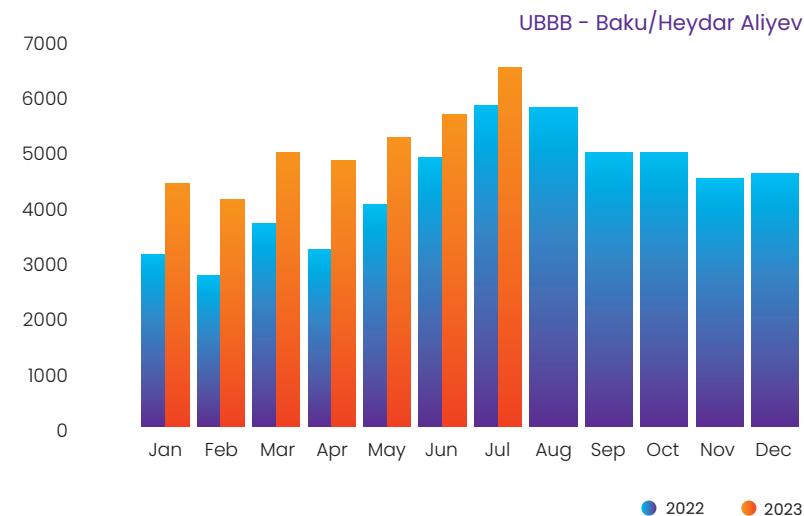
● 2022   ● 2023

2.1.2 Comparative chart 2019 – 2023

The number of movements at Baku/Heydar Intl' Aliyev airport recorded for seven months 2023 is **35733 ACFT.**

Average number of movements per day is **169 ACFT.**

Comparison with the same period of 2022 – **+29.2%.**

Baku/Heydar Aliyev - Comparative chart 2019-2023

2.1.3 Air traffic flows – Load of SIDs.

Baku/Heydar Aliyev Departure Flows

RASAM **36% (1177 ACFT)**
EKRAM **18% (593 ACFT)**
BETEK **4% (127 ACFT)**
NAMAS **7% (237 ACFT)**
AGDAM **12% (384 ACFT)**
GILAB **10% (333 ACFT)**
BAMAK **13% (434 ACFT)**
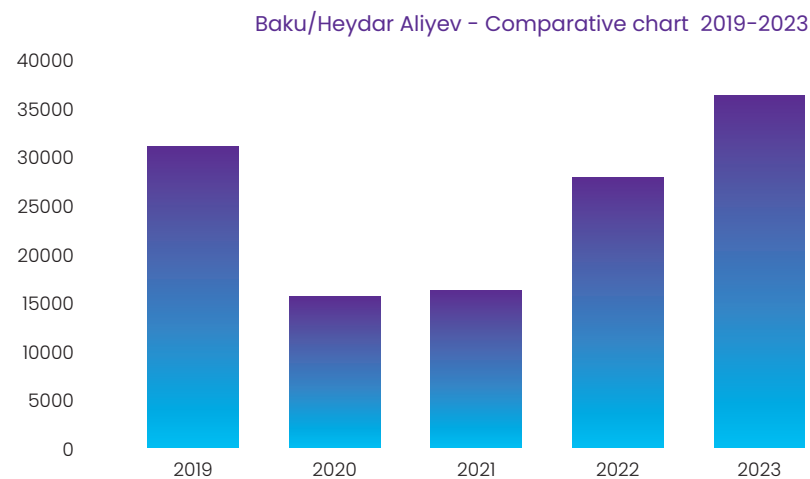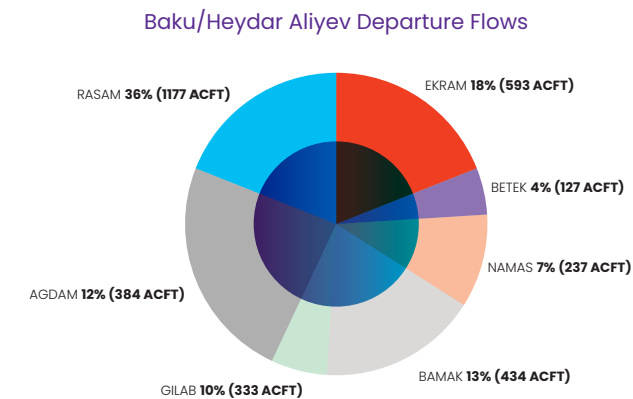
2.1.4 Air traffic flows – Load of STARs

Baku/Heydar Aliyev Arrival Flows

NOBVA **8% (258 ACFT)**
ROPKA **14% (454 ACFT)**
ERLEV **16% (537 ACFT)**
AMOKU **2% (51 ACFT)**
ABROL **5% (168 ACFT)**
MOSUM **10% (335 ACFT)**
INSAN **42% (1360 ACFT)**
KUPAT **3% (114 ACFT)**

2.1.5 Use of RWY 16/34 and 17/35

Take-off
RWY 16/34   **50% (1644 ACFT)**
RWY 17/35   **50% (1641 ACFT)**

Landing
RWY 16/34   **56% (1825 ACFT)**
RWY 17/35   **44% (1455 ACFT)**

Total
RWY 16/34   **53% (3469 ACFT)**
RWY 17/35   **47% (3096 ACFT)**

2.1.6 Types of flights

● Passanger **80%**   ● Cargo **14%**
● Business **5%**   ● Other **1%**
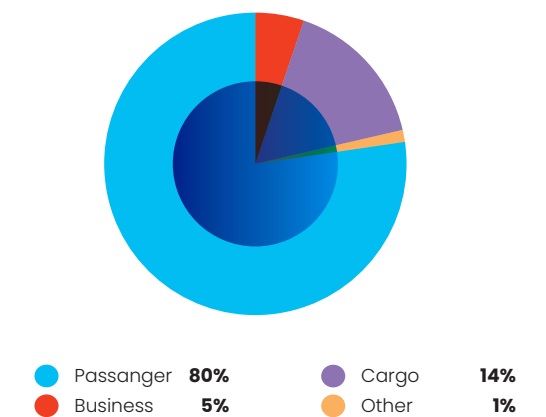
2.1.7 Passenger flights (Budget/low-cost vs classic)

Budget/low-cost airlines: **Buta Airways, Air Baltic, Fly Dubai, Air Arabia, Air Arabia Abu Dhabi, Jazeera Airways, Pegasus Airlines, Flynas, Fly Arystan, Flyadeal, WizzAir, WizzAir Malta and WizzAir Abu Dhabi.**

● Low-cost **32%**
● Classic **68%**

2.1.8 Aircraft Operators – Top 10 Airspace Users

Operator	Flights
Azerbaijan Airlines	1632
Buta Airways	800
Silkway West Airlines	588
Turkish Airlines	572
Fly Dubai	198
UTair	192
Aeroflot	186
Flynas	143
Air Arabia	126
IR Aero	124

Note: This chart shows the number of flights in July 2023.

2.1.9 Aircraft Operators – Airlines of Azerbaijan vs international airlines

- International Airlines **48%**
- Airlines of Azerbaijan **52%**
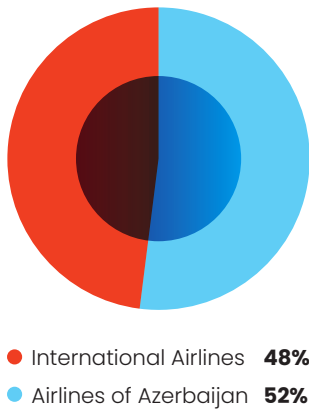
2.1.10 Traffic segments – Domestic vs International
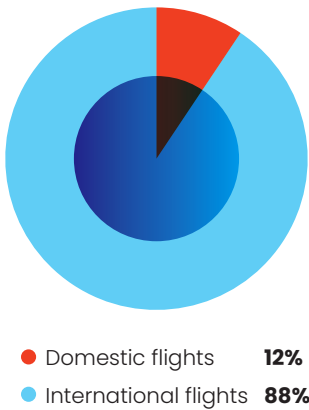
- Domestic flights **12%**
- International flights **88%**

2.2 Nakhchivan International airport

765 acft
The number of IFR movements within Baku recorded in July

25 acft
Average number of IFR movements per day

–5.7 %
Comparison with July 2022
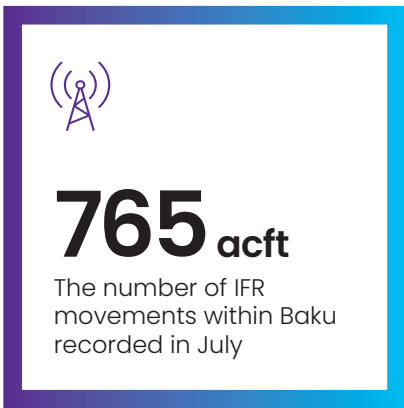
Total number of movements at Nakhchivan International airport recorded in July is **765 ACFT.**

Average number of movements per day is **25 ACFT.**

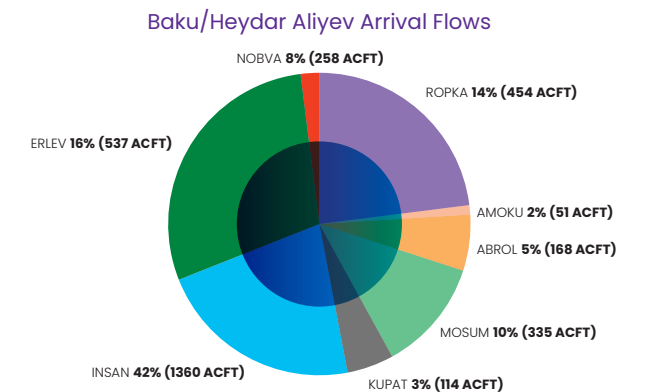Comparison with July 2022 – **–5.7%.**
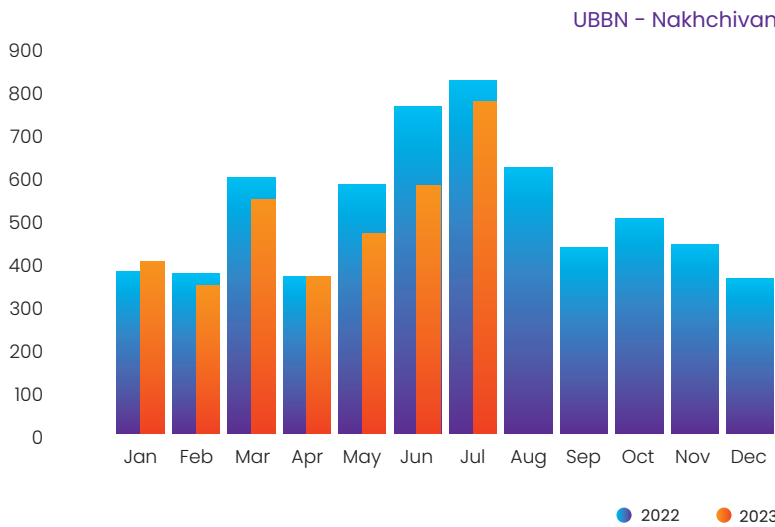
UBBN – Nakhchivan

- 2022
- 2023

The number of movements at Nakhchivan International airport recorded for seven months 2023 is **3464 ACFT.**

Average number of movements per day is **17 ACFT.**
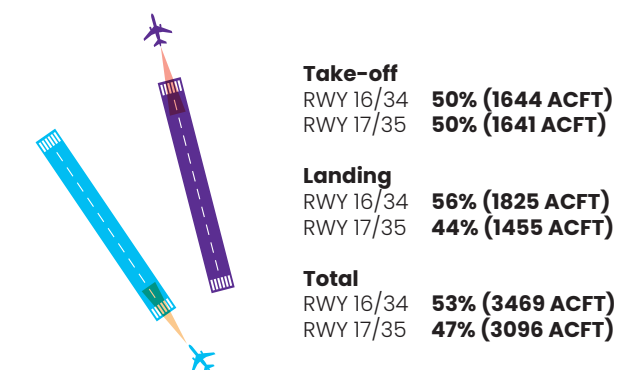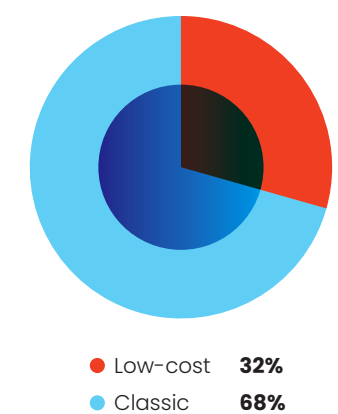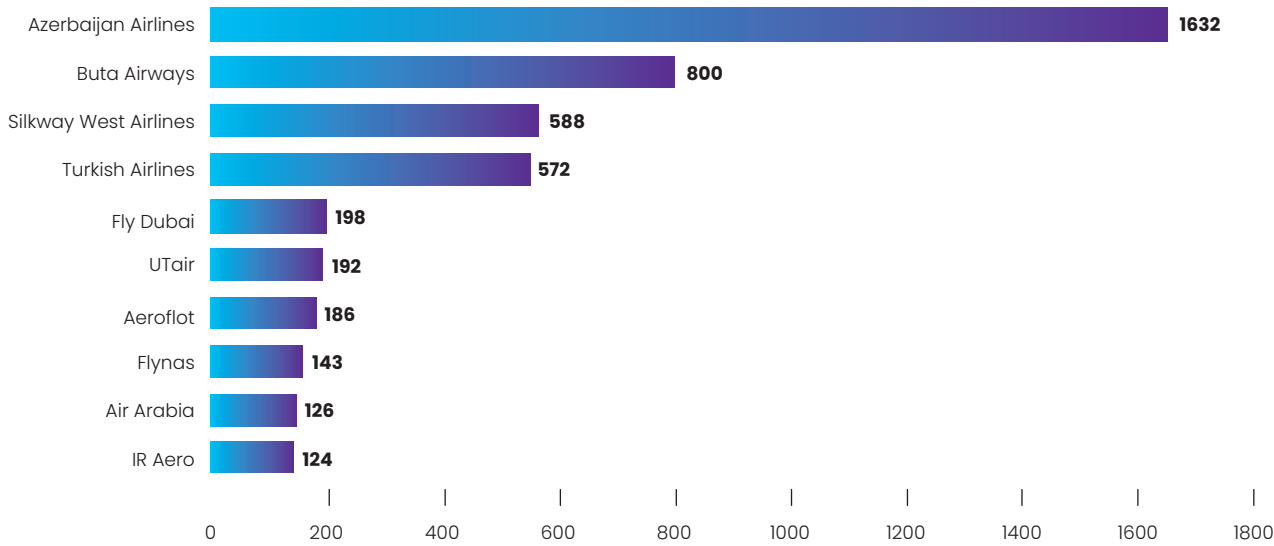
Comparison with the same period of 2022 – **–9.2%.**
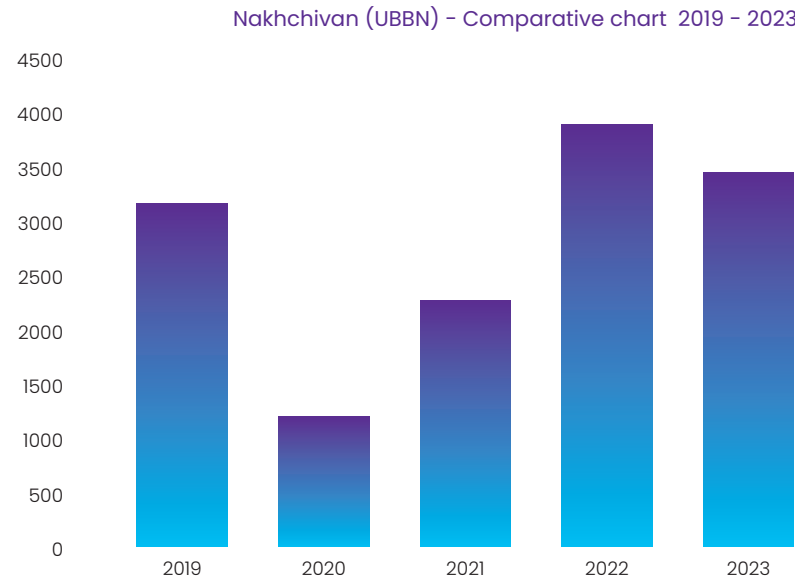
Nakhchivan (UBBN) – Comparative chart 2019 – 2023

2.3 Ganja International airport

208 acft

The number of IFR movements within Baku recorded in July

7 acft

Average number of IFR movements per day

+50.7 %

Comparison with July 2022

Total number of movements at Ganja International airport recorded in July is **208 ACFT.**

Average number of movements per day is **7 ACFT.**

Comparison with July 2022 – **+50.7%.**

UBBG - Ganja

● 2022   ● 2023

The number of movements at Ganja International airport recorded for seven months 2023 is **1172 ACFT.**

Average number of movements per day is **6 ACFT.**

Comparison with the same period of 2022 – **+101.4%.**

Ganja (UBBG) - Comparative chart 2019-2023

2.4 Gabala International airport

42 acft

The number of IFR movements within Baku recorded in July

2 acft

Average number of IFR movements per day

+50.0 %

Comparison with July 2022
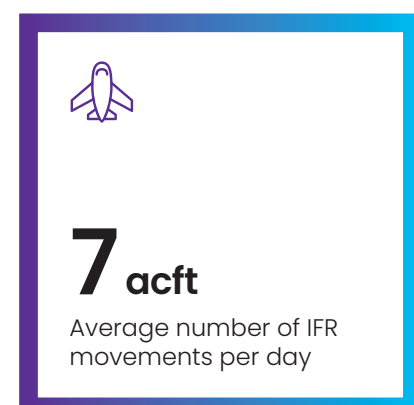
Total number of movements at Gabala International airport recorded in July is **42 ACFT.**

Average number of movements per day is **2 ACFT.**

Comparison with July 2022 – **+50.0%.**

UBBQ - Gabala

● 2022   ● 2023

The number of movements at Gabala International airport recorded for seven months 2023 is **218 ACFT.**

Average number of movements per day is **1 ACFT.**
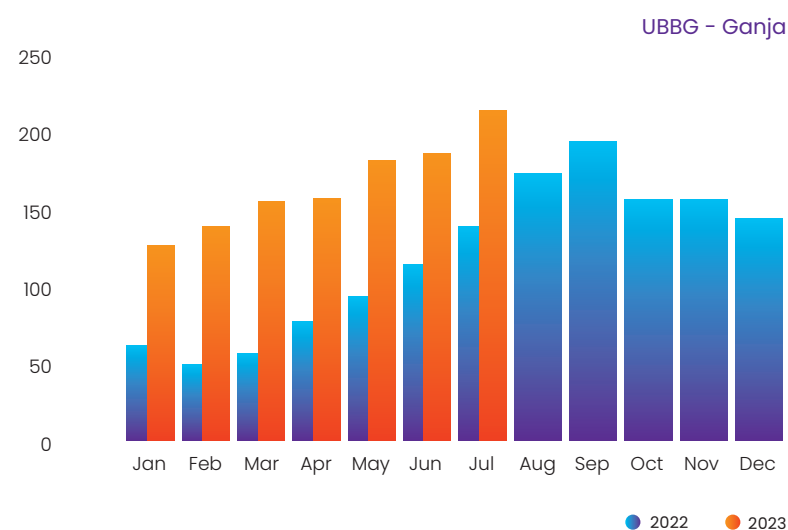
Comparison with the same period of 2022 – **+38.0%**

Gabala (UBBQ) - Comparative chart 2019 - 2023

2.5 Lenkoran International airport

20 acft

The number of IFR movements within Baku recorded in July

0.7

Average number of IFR movements per day

–33.3 %

Comparison with July 2022

Total number of movements at Lenkoran International airport recorded in July is **20 ACFT.**

Average number of movements per day is **0.7.**

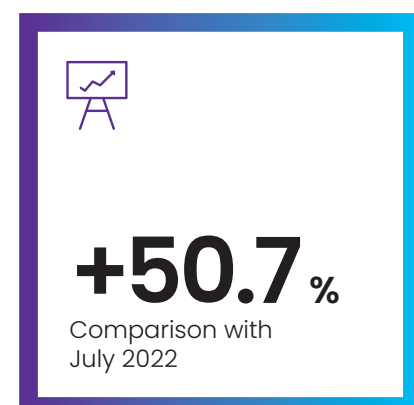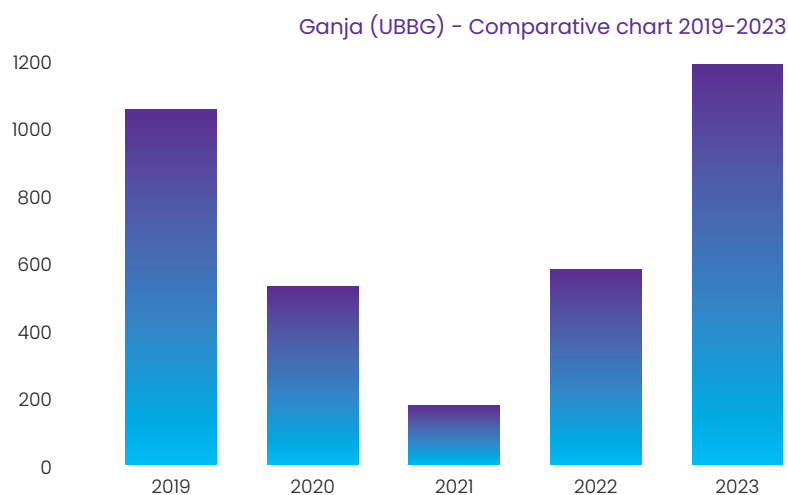Comparison with July 2022 – **–33.3%.**
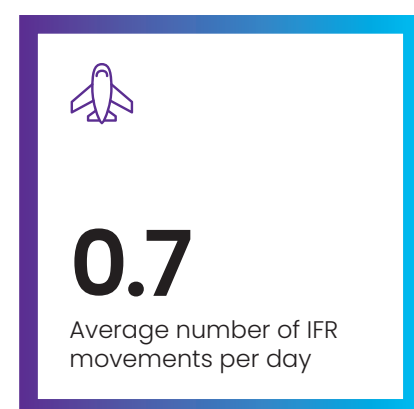
UBBL - Lenkoran

● 2022 ● 2023

The number of movements at Lenkoran International airport recorded for seven months 2023 is **148 ACFT.**

Average number of movements per day is **0.7.**
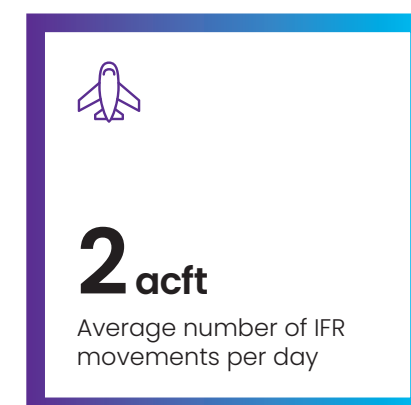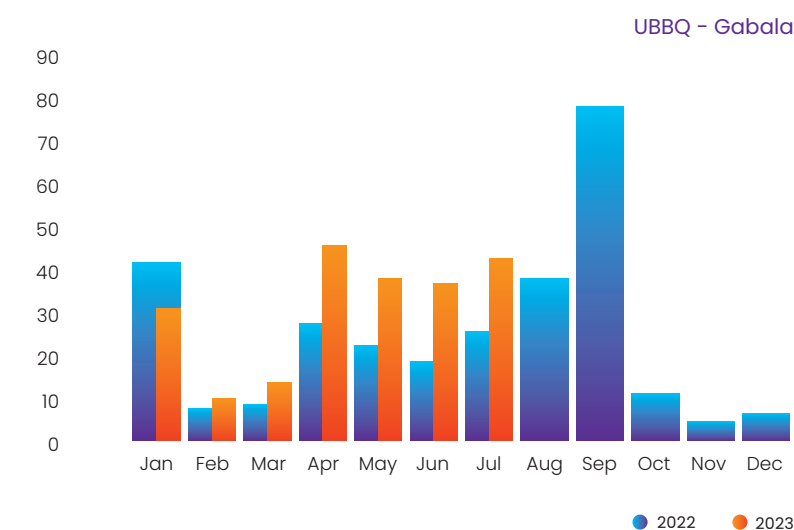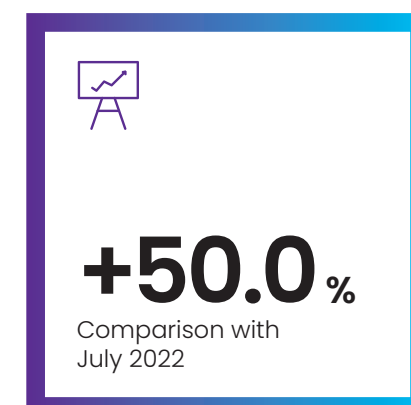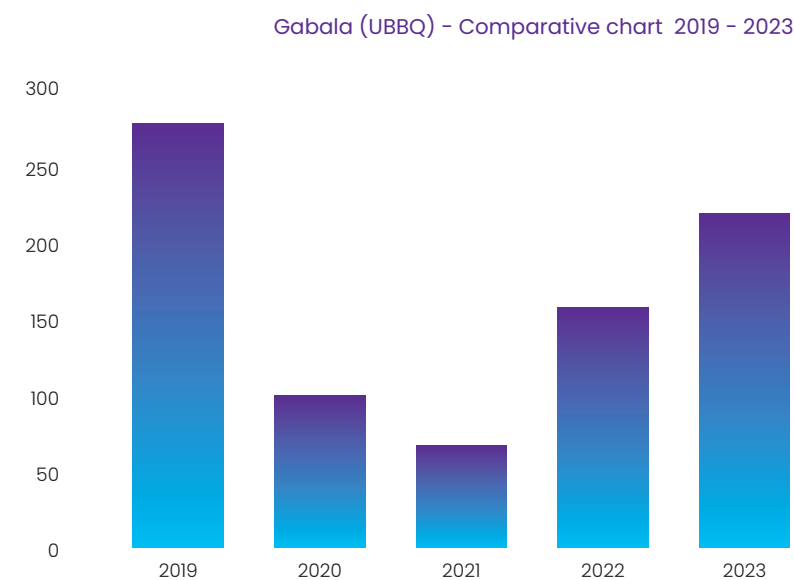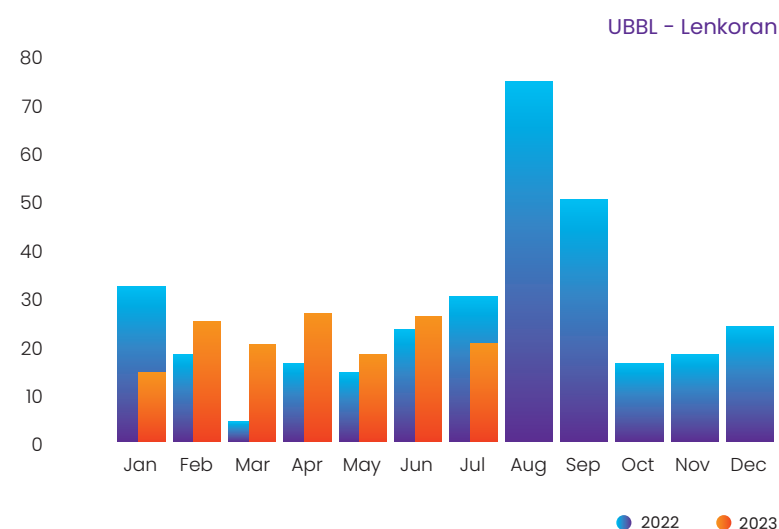
Comparison with the same period of 2022 – **+7.2%.**

Lenkoran (UBBL) - Comparative chart 2019 - 2023
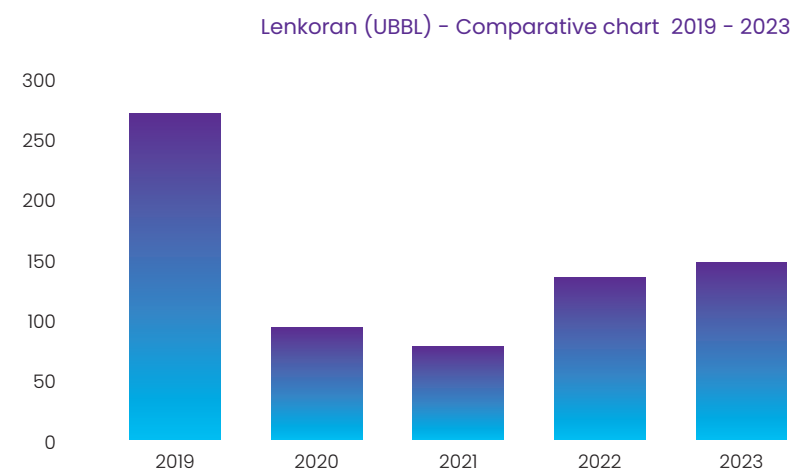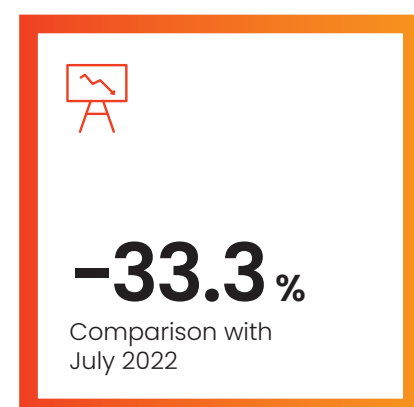
2.6 Fuzuli International airport.
Total number of movements - **30 ACFT**
Average number of movements per day – **1**

2.7 Zagatala International airport.
Total number of movements - **2 ACFT**
Average number of movements per day – **0.1**

2.8 Zangilan International airport.
Total number of movements - **6 ACFT**
Average number of movements per day – **0.2**

2.9 Yevlakh airport.
No movements were recorded

3 | VFR Movements Statistics data

3.1 Baku/Zabrat airport

650 acft

The number of IFR movements within Baku recorded in July

21 acft

Average number of IFR movements per day

–48.8 %

Comparison with July 2022
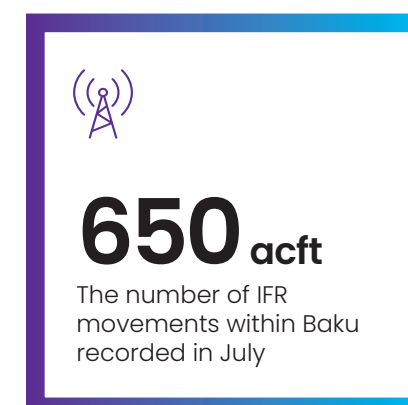
Total number of VFR movements at Baku/Zabrat airport recorded in July is **650 ACFT.**

Average number of movements per day is **21 ACFT**

Comparison with July 2022 – **–48.8%.**

UBTT - Baku/Zabrat

● 2022 ● 2023
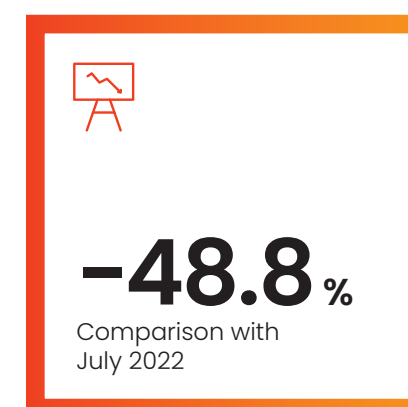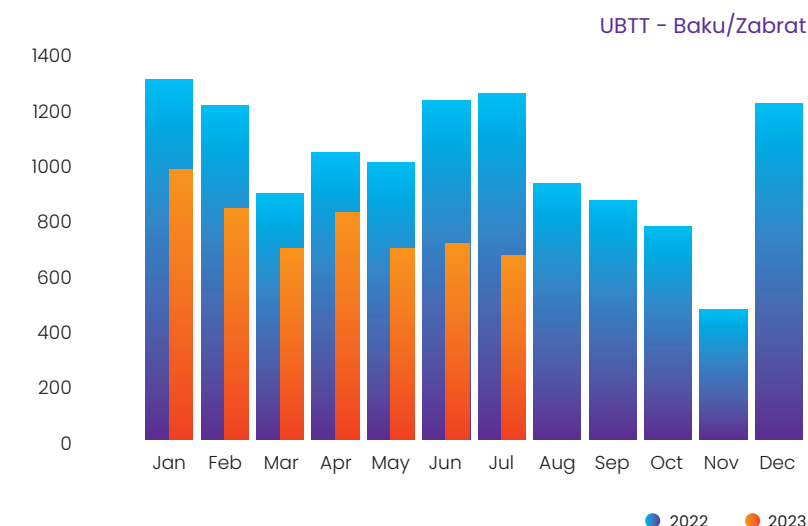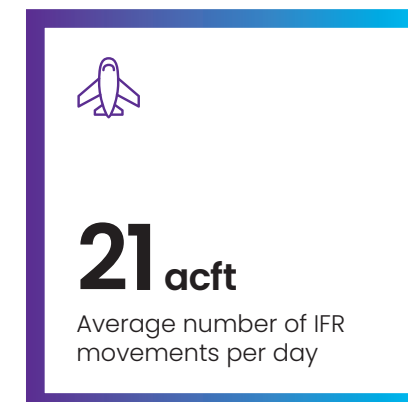
The Baku/Zabrat aerodrome is the base of training flights for student pilots of the National Aviation Academy. The student pilot training program includes en-route flight training and training maneuvers (take-off, landing, go-around) on the Cessna-172 aircraft

● Cessna 172 **164 flights   25%**
● Helicopters **486 flights   75%**

3.2 Pirallahi heliport

424 acft

The number of IFR movements within Baku recorded in July

14 acft

Average number of IFR movements per day

+20.5 %
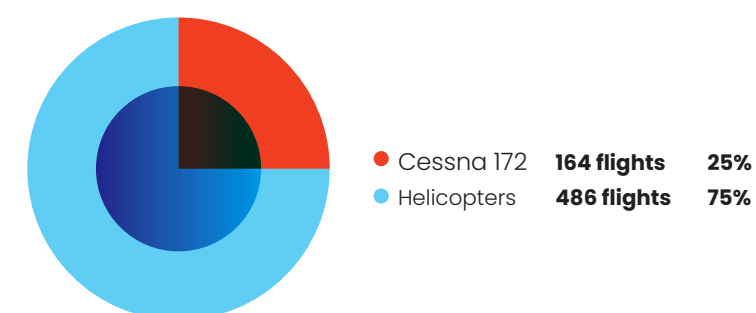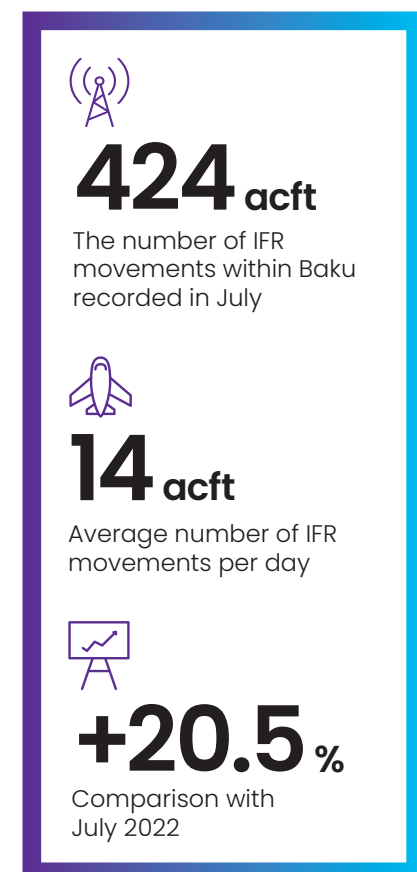
Comparison with July 2022

Total number of VFR movements at Pirallahi heliport recorded in July is **424 ACFT.**

Average number of movements per day is **14 ACFT**

Comparison with July 2022 − **+20.5%.**

Pirallahi

● 2022 ● 2023

3.3 Chilov heliport

412 acft

The number of IFR movements within Baku recorded in July

14 acft

Average number of IFR movements per day

+2.0 %

Comparison with July 2022

Total number of VFR movements at Chilov heliport recorded in July is **412 ACFT.**

Average number of movements per day is **14 ACFT**

Comparison with July 2022 − **+2.0%.**

Chilov

● 2022 ● 2023

3.4 Neft Dashlari heliport

256 acft

The number of IFR movements within Baku recorded in July

9 acft

Average number of IFR movements per day

−1.5 %

Comparison with July 2022

Total number of VFR movements at Neft Dashlari heliport recorded in July is **256 ACFT.**

Average number of movements per day is **9 ACFT**

Comparison with July 2022 − **−1.5%.**

Neft Dashlari

● 2022 ● 2023

3.5 Helipads on the ships and offshore drilling rigs in the Caspian Sea

211 acft

The number of IFR movements within Baku recorded in July

7 acft

Average number of IFR movements per day

−5.4 %

Comparison with July 2022

Total number of VFR movements at helipads on the ships and offshore drilling rigs in the Caspian Sea recorded in July is **211 ACFT.**

Average number of movements per day is **7 ACFT**

Comparison with July 2022 − **−5.4%.**

Caspian Sea

● 2022 ● 2023

4 | Overflight Air Traffic Statistics Data

4.1 General Air Traffic Statistics Data

16194 acft

The number of IFR movements within Baku recorded in July

523 acft

Average number of IFR movements per day

+42.6 %

Comparison with July 2022

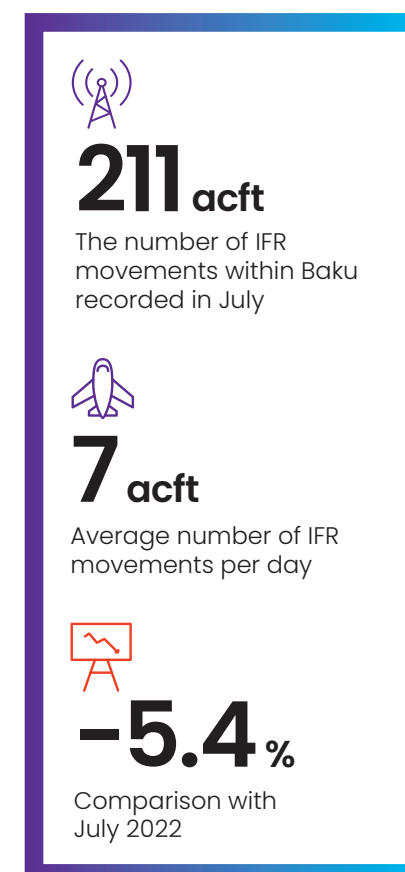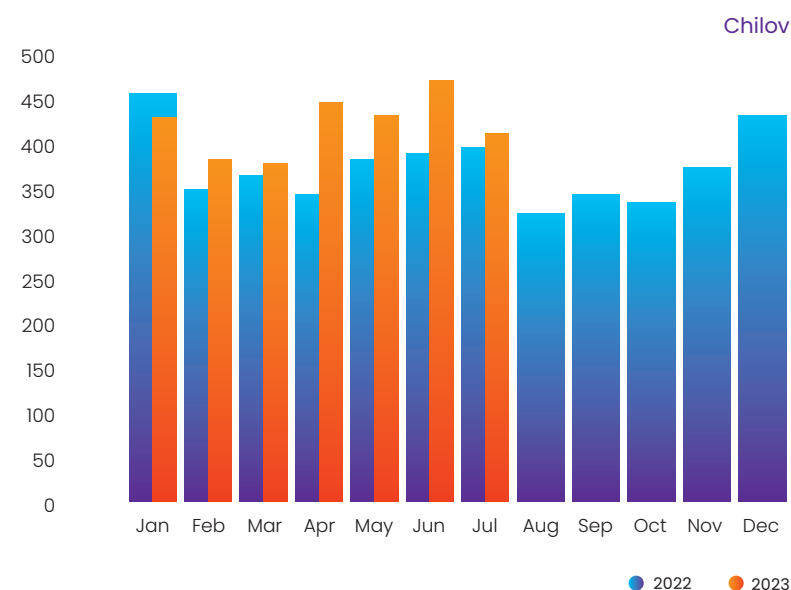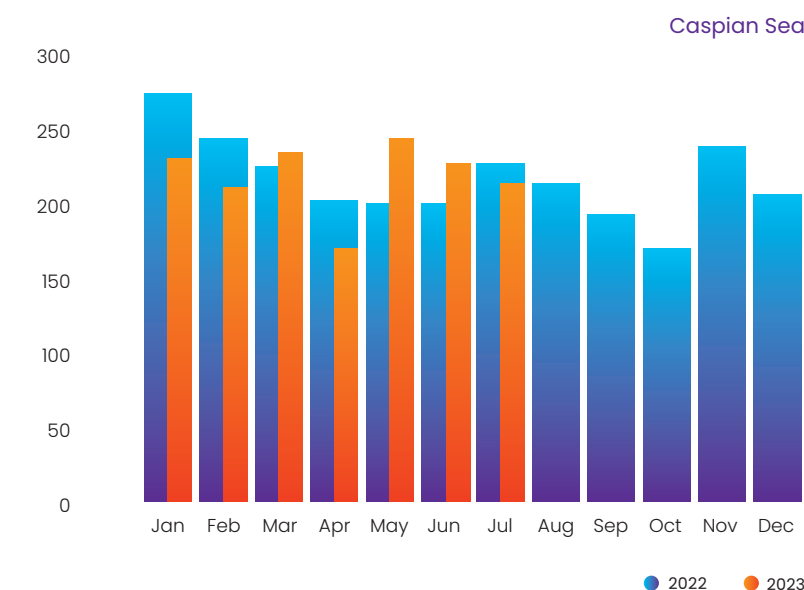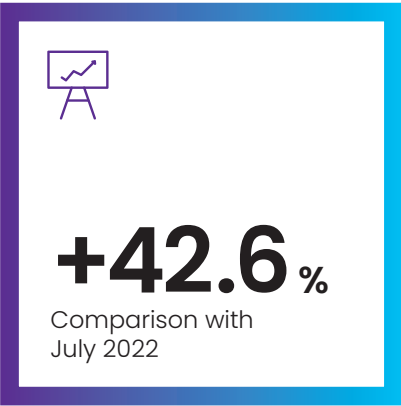The number of overflights via Baku FIR recorded in July is **16194 ACFT.**

Average number of overflights per day is **523 ACFT** (Peak day, July 05, 2023 – **554 ACFT**; low day, July 24, 2023 – **490 ACFT**).

Comparison with July 2022 – **+42.6%.**

Overflight traffic

● 2022 ● 2023
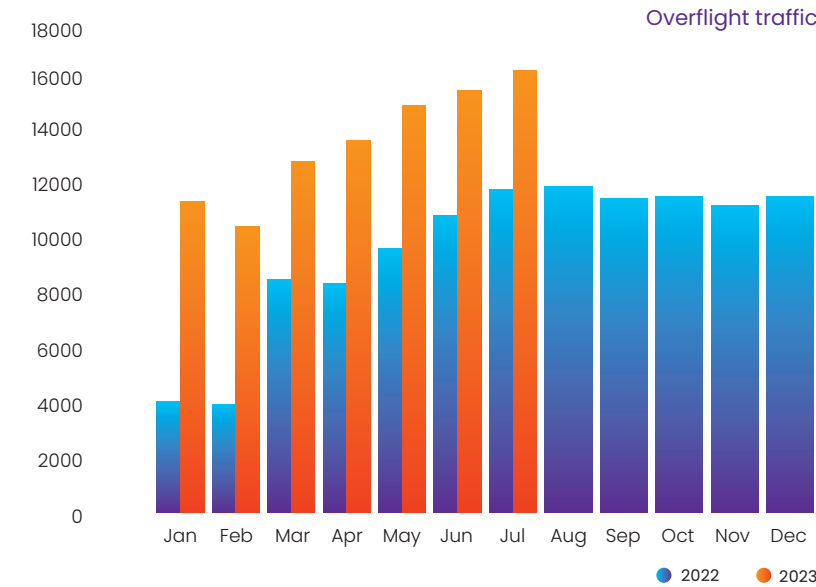
The number of overflights via Baku FIR recorded for seven months 2023 is **94306ACFT.**

Average number of overflights per day is **445 ACFT.**

Comparison with the same period of 2022 – **+64.8%.**

Overflight traffic - Comparative chart 2019-2023

4.2 Traffic segments

● Civil	**16141 ACFT**
● NATO	**19 ACFT**
● Russian Air Force	**34 ACFT**
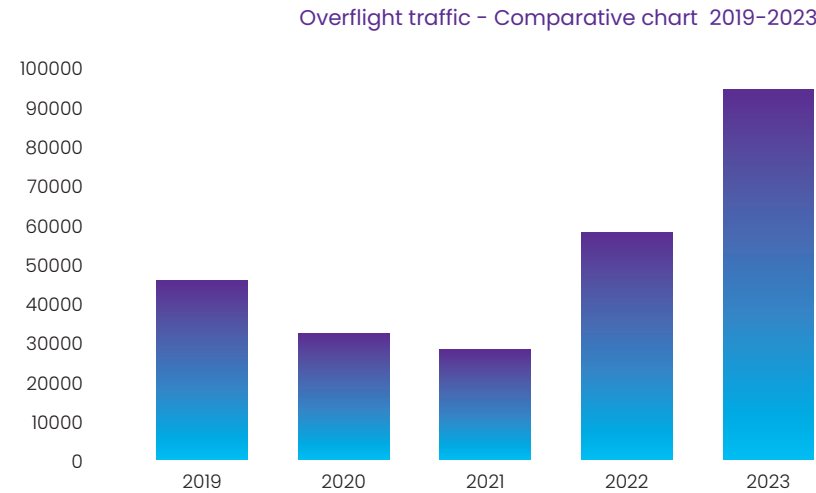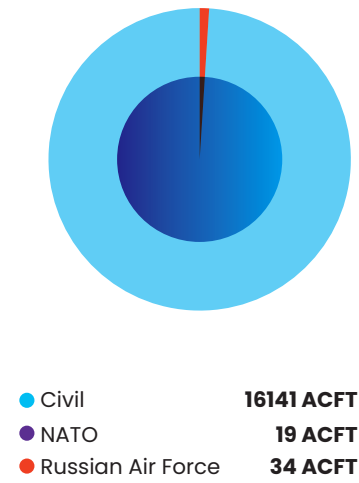
4.3 Aircraft Operators - Top 20 Airspace Users

Operator	Flights
Turkish Airlines	2380
Air Astana	1133
Korean Air	797
Scat Airlines	648
Cathay Pacific	644
Fly Dubai	559
Lufthansa	508
Uzbekistan Airways	464
Air France	463
British Airways	435
Pegasus Airlines	397
Asiana Airlines	364
KLM	349
Finnair	343
Coredon Airlines	313
Emirates	292
Qatar Airways	267
Air Arabia	249
AeroLogic	234
Lufthansa Cargo	227

Note: This chart shows the number of flights in July 2023.

4.4 Air traffic flows – main overflight flows.
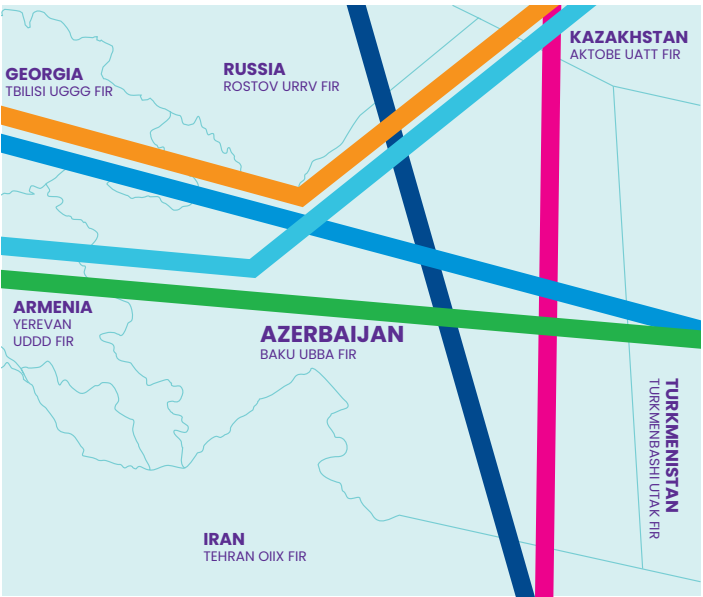
● Georgia - Turkmenistan and v.v.	**31% (5067 ACFT)**
● Georgia - Kazakhstan and v.v.	**33% (5313 ACFT)**
● Iran - Russia and v.v.	**4% (679 ACFT)**
● Turkmenistan – Armenia and v.v.	**5% (868 ACFT)**
● Kazakxstan - Armenia and v.v.	**11% (1822 ACFT)**
● Iran - Kazakhstan and v.v.	**11% (1696 ACFT)**
Other directions (Total)	**5% (749 ACFT)**

5 | Key Performance Indicators (KPIs)

This report presents Key Performance Indicators (KPIs) to assess the operational efficiency of the "Azeraeronavigation" ATD in terms of provision of air traffic services. All the calculations are done for "Bakuaeronavigation" due to low traffic at the regional airports.

5.1 KPI – Capacity Utilization.

Capacity utilization assesses how effectively capacity is managed. It is a measure of accommodated demand, compared to the available capacity of Baku FIR.

KPI - Capacity Utilization is calculated by the formula: the value of "accommodated demand" is divided by the value of "capacity" and is multiplied by 100%.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	16	16	26	25	29	34	37	37	36	35	34	34
2023	33	33	37	40	41	46	48					

Capacity Utilization July 2023 **48%**

KPI - Capacity Utilisation
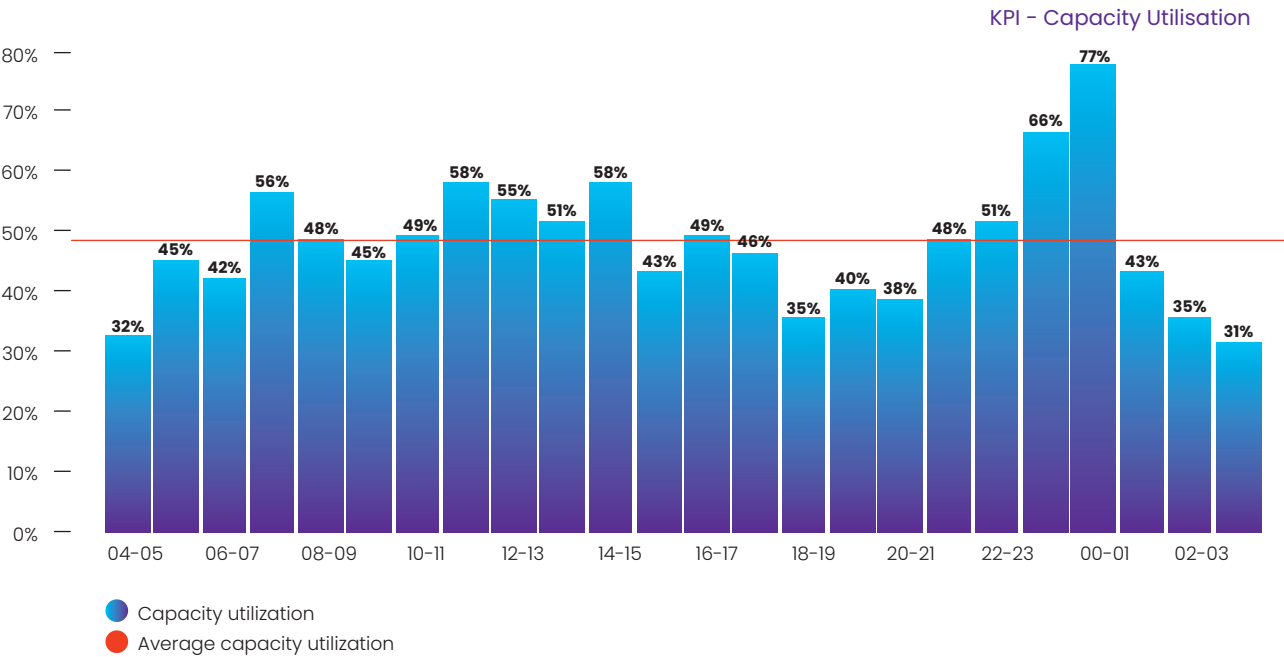
5.2 KPI – Total Distance flown.

KPI-Flown distance is a total flown distance. KPI is km.

5.2.1 KPI – Total Distance flown - Baku FIR. (Combined en-route traffic and aerodrome movements).

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of KPI - Total flown distance (FIR).

	Jan	Feb	Mar	Apr	May	Jun
2022	3 017 241	2 828 769	5 247 488	5 021 980	5 855 889	6 700 779
2023	6 826 061	6 226 183	7 721 660	7 971 465	8 590 043	9 172 884

|	Jul	Aug	Sep	Oct	Nov	Dec
2022	7 478 958	7 531 786	7 018 478	7 081 076	6 805 131	7 019 174
2023	9 915 145					

Total flown distance (km) - FIR
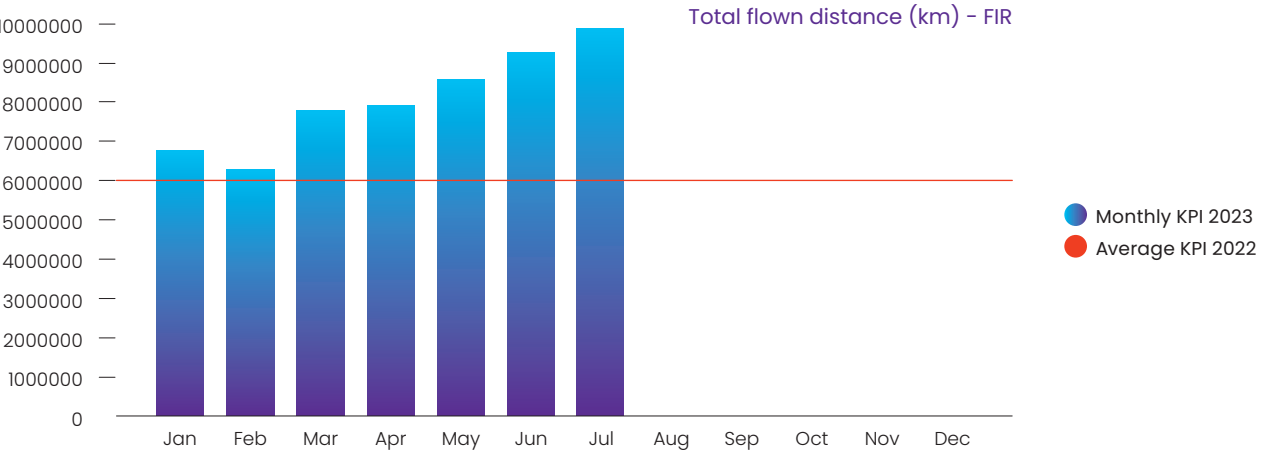
5.2.2 KPI – Total Distance flown - En-route traffic.

Only overflight traffic data is used for calculation of Total flown distance (ENR).

	Jan	Feb	Mar	Apr	May	Jun
2022	1 929 590	1 875 524	3 950 238	3 876 366	4 429 406	4 988 482
2023	5 296 353	4 803 864	5 979 971	6 278 415	6 796 296	7 187 321

	Jul	Aug	Sep	Oct	Nov	Dec
2022	5 440 267	5 509 422	5 281 026	5 341 818	5228581	5412507
2023	7 572 989					

Total flown distance (km) - En-route
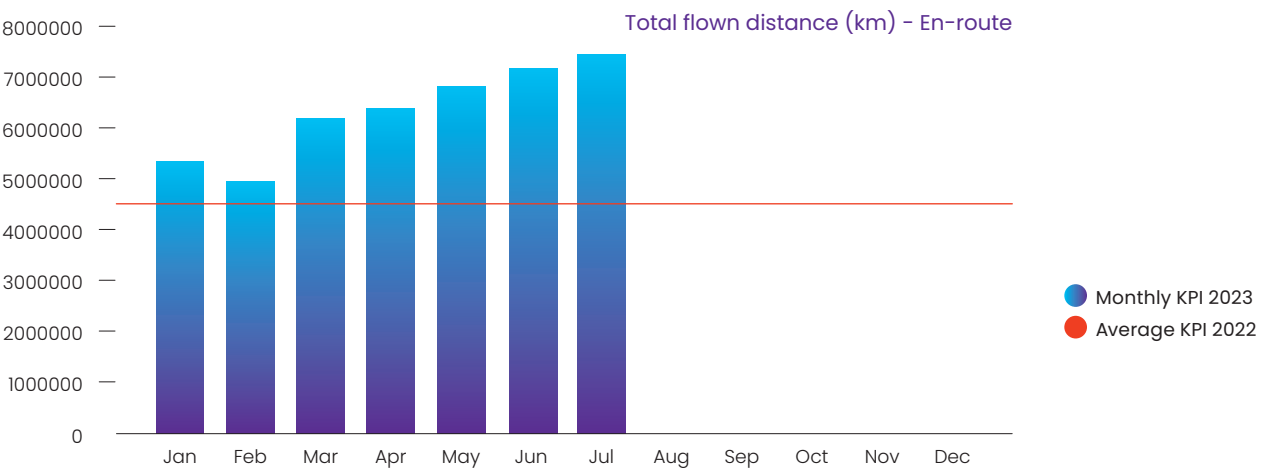
5.2.3 KPI – Total Distance flown - Aerodrome movements.

Only aerodrome movements data is used for calculation of Total flown distance (AD).

	Jan	Feb	Mar	Apr	May	Jun
2022	1 087 652	953 245	1 297 250	1 145 614	1 426 483	1 712 296
2023	1 529 708	1 422 319	1 741 689	1 693 050	1 793 747	1 985 563

	Jul	Aug	Sep	Oct	Nov	Dec
2022	2 038 691	2 022 364	1 737 452	1 739 258	1 576 550	1 606 667
2023	2 342 156					

Total flown distance (km) - Aerodrome movements

5.3 KPI–Average flown distance per ACFT

KPI- Average flown distance is calculation of average distance flown by ACFT by the following formula: the value of "total flown distance in kilometers" is divided by the value of "number of ACFT". KPI is km/ACFT.

5.3.1 KPI - Average flown distance (FIR)

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of average flown distance (FIR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	413	419	424	429	424	422	420	422	421	423	427	429
2023	428	427	428	431	431	430	431					

KPI - Average flown distance (FIR) July 2023   **431 km/ACFT**

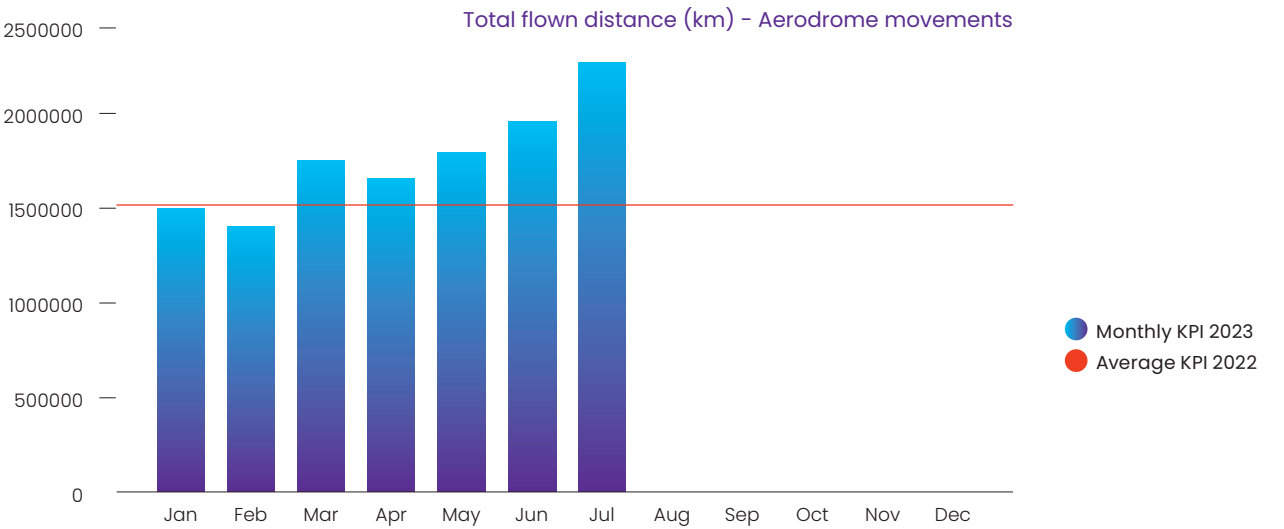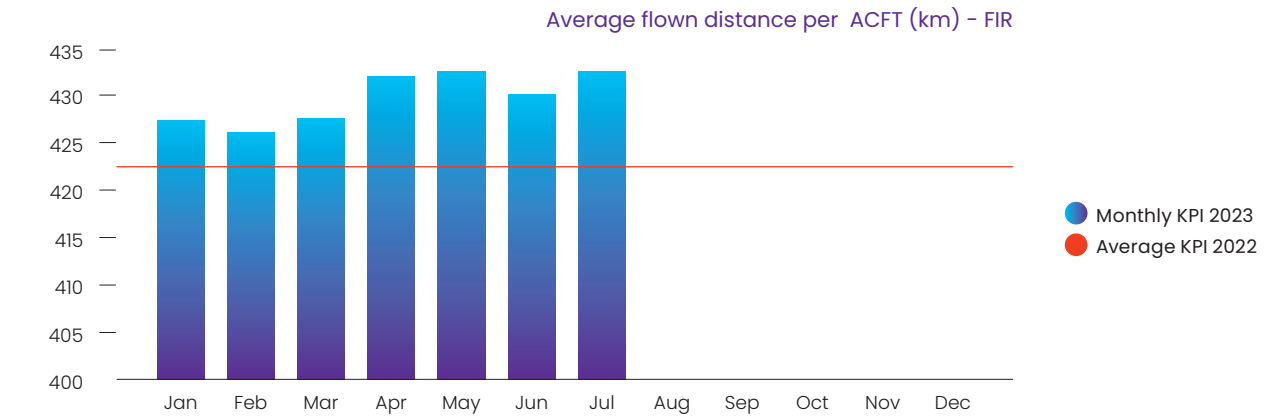Average flown distance per ACFT (km) - FIR

5.3.2 KPI - Average flown distance (ENR)

Only overflight traffic data is used for calculation of KPI - Average flown distance (ENR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	475	478	462	462	459	460	461	462	461	464	467	468
2023	466	464	466	466	465	465	468					

KPI - Average flown distance (ENR) July 2023   **468 km/ACFT**

Average flown distance per ACFT (km) - En-route
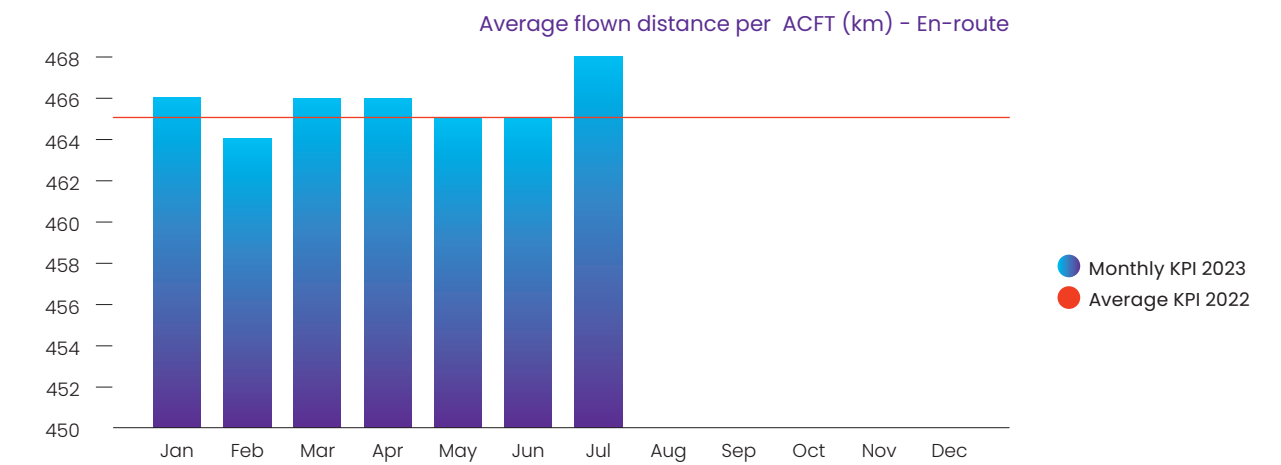
5.3.3 KPI- Average flown distance (AD)

Only aerodrome movements data is used for calculation of Average flown distance (AD).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	335	337	340	345	342	340	339	340	334	333	334	335
2023	334	336	333	337	338	339	343					

KPI - Average flown distance (AD) July 2023   **343 km/ACFT**

Average flown distance per ACFT (km) - Aerodrome movements
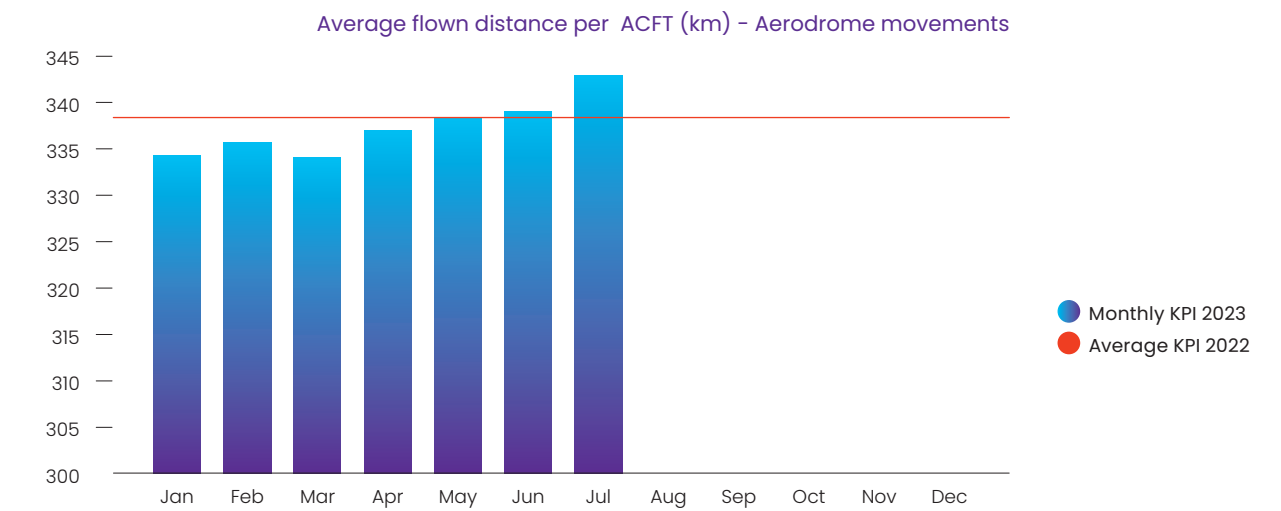
5.4 KPI −Total IFR/hours

KPI- IFR/hours is a total flown IFR/hours. KPI is IFR/hours.

5.4.1 Total IFR/hours -FIR Baku

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of KPI - IFR/hours (FIR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	3863	3610	6510	6153	7216	8287	9204	9218	8609	8728	8343	8616
2023	8388	7665	9484	9709	10425	11145	12000					

KPI - Total IFR/hours (FIR) July 2023   **12000 IFR/hours**

5.4.2 Total IFR/hours -Enroute

Only overflight traffic data is used for calculation of KPI - IFR/hours (ENR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	2257	2183	4569	4477	5098	5727	6192	6272	6061	6157	6035	6271
2023	6147	5579	6908	7236	7798	8557						

KPI - Total IFR/hours (ENR) July 2023   **8557 IFR/hours**

5.4.3 Total IFR/hours −Aerodrome movements

Only aerodrome movements data is used for calculation of KPI - IFR/hours (AD).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	1607	1427	1941	1676	2118	2560	3012	2947	2548	2572	2308	2346
2023	2241	2086	2576	2473	2931	2931	3443					

KPI - Total IFR/hours (AD) July 2023   **3443 IFR/hours**

5.5 KPI – Average IFR/min per ACFT

KPI - IFR/min per ACFT is an average flown IFR/min per ACFT. KPI is IFR/hours.

KPI - Average flown IFR/min per ACFT is calculation of average time flown by ACFT by the following formula: the value of "total flown time in minutes" is divided by the value of "number of ACFT". KPI is min/ACFT.

5.5.1 Average IFR/min per ACFT - FIR Baku

All the traffic data of Baku FIR (overflight and aerodrome movements) is used for calculation of KPI - Average IFR/min per ACFT (FIR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	32	32	32	32	31	31	31	31	31	31	31	32
2023	32	32	32	31	31	31	31					

KPI - Average IFR/min per ACFT (FIR) July 2023   **31 min/ACFT**

5.5.2 Average IFR/min per ACFT – En-route
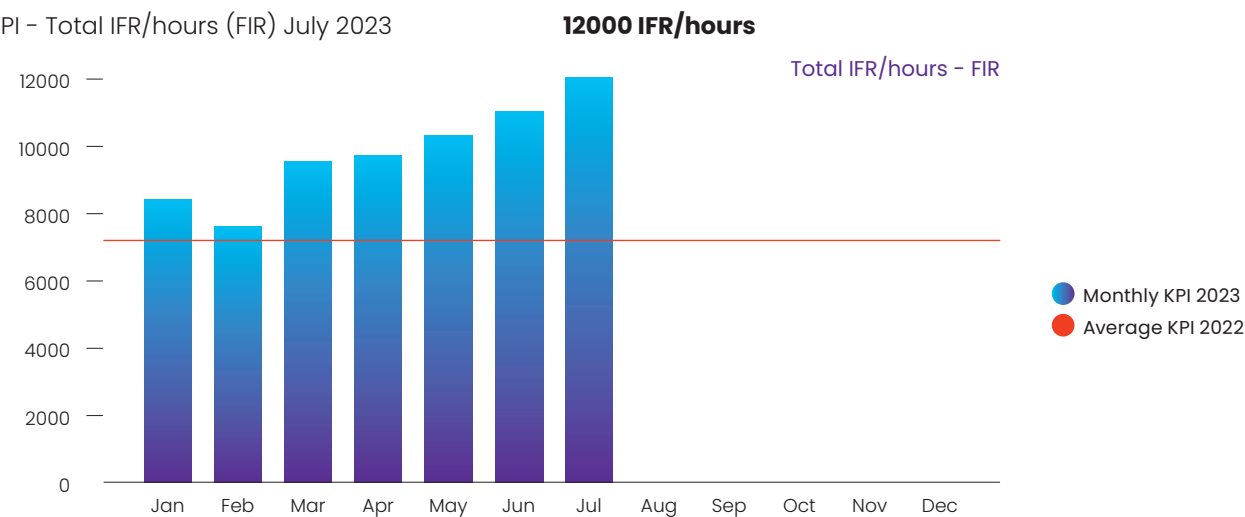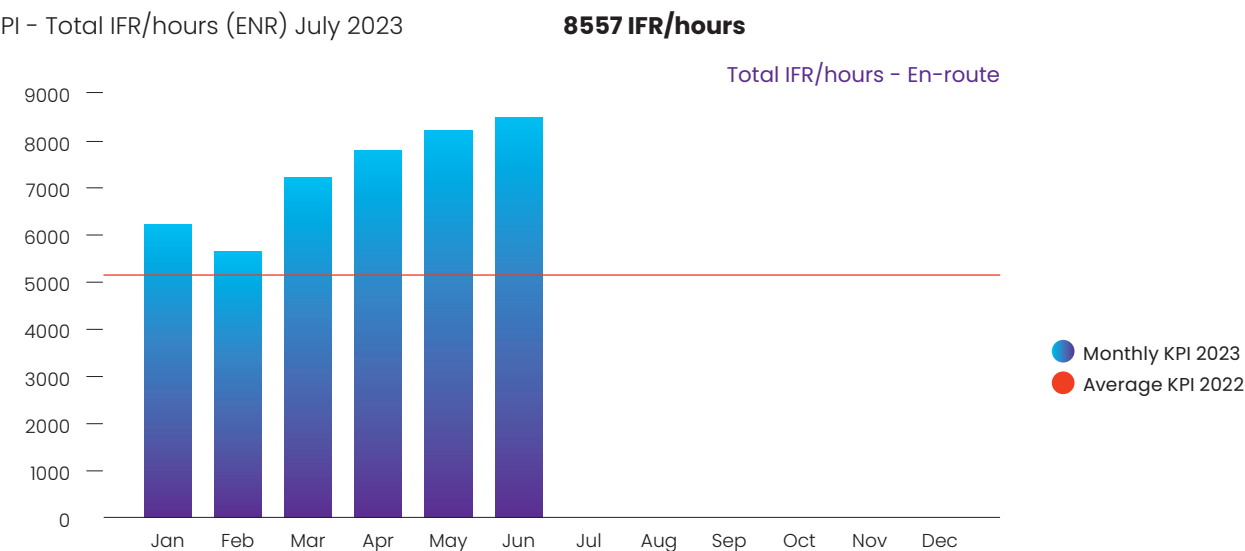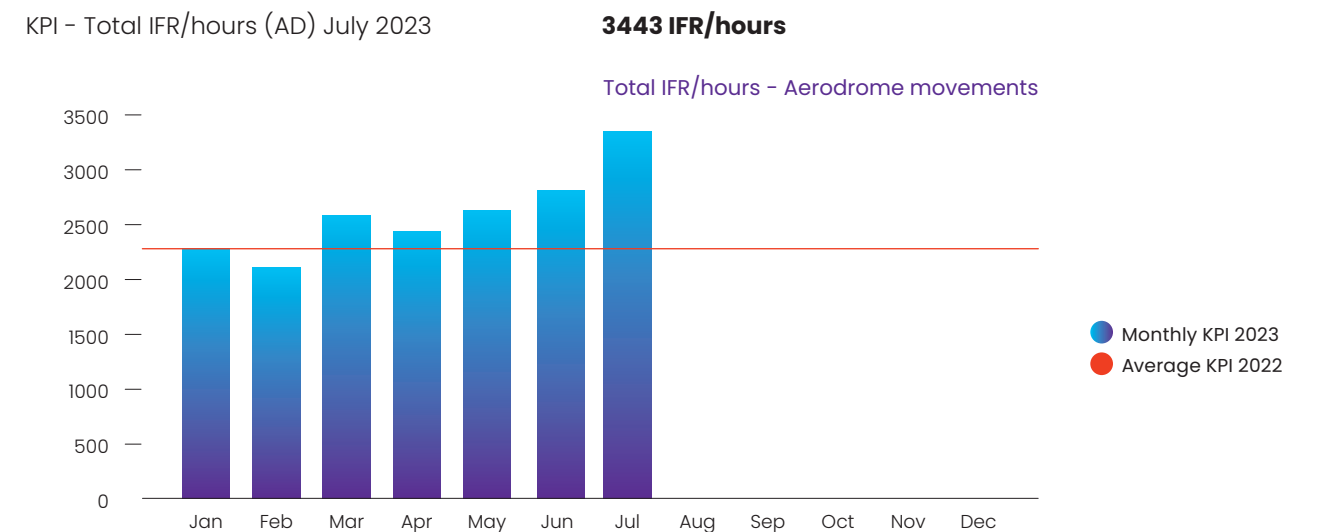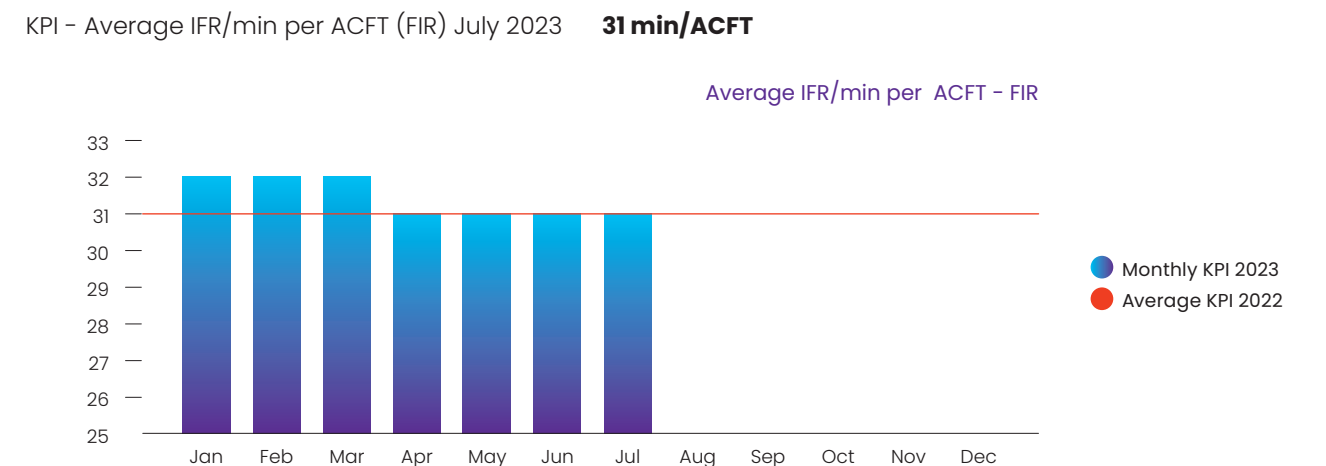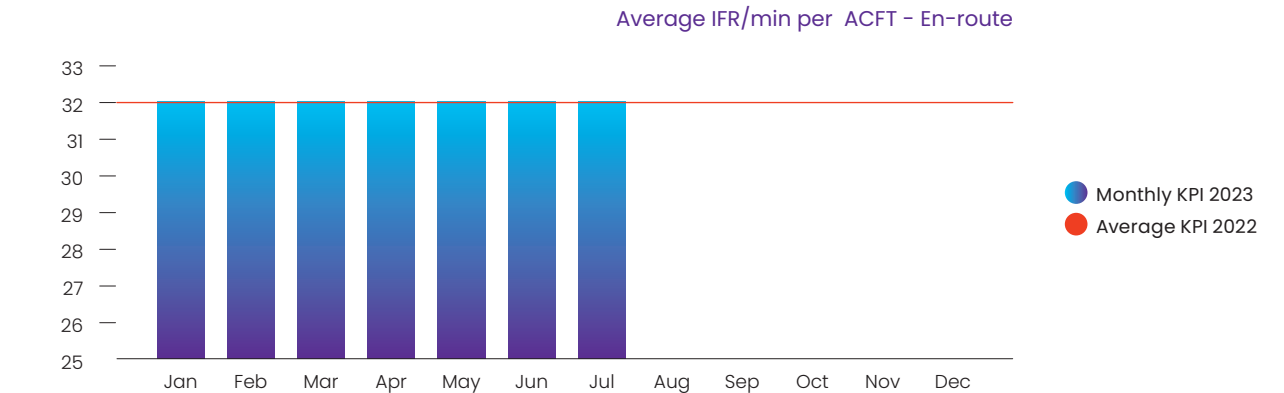
Only overflight traffic data is used for calculation of KPI - Average IFR/min per ACFT (ENR).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	33	33	32	32	32	32	32	32	32	32	32	33
2023	32	32	32	32	32	32	32					

KPI - Average IFR/min per ACFT (ENR) July 2023   **32 min/ACFT**

Average IFR/min per ACFT - En-route


- ● Monthly KPI 2023
- ● Average KPI 2022

5.5.3 Average IFR/min per ACFT – Aerodrome movements

Only aerodrome movements data is used for calculation of KPI - Average IFR/min per ACFT (AD).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	30	30	31	30	31	30	30	30	29	30	29	29
2023	29	30	30	30	30	30	30					

KPI - Average IFR/min per ACFT (AD) July 2023   **30 min/ACFT**

Average IFR/min per ACFT - Aerodrome movements

- ● Monthly KPI 2023
- ● Average KPI 2022
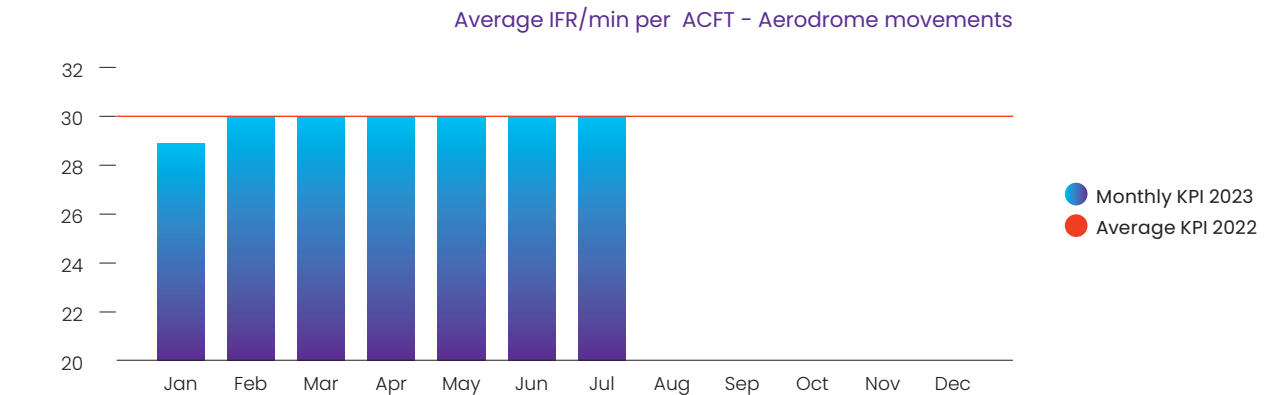
5.6 CANSO Productivity KPIs

The key indicator of ANS productivity is IFR flight hours per ATCO in OPS hour, often described as "ATCO in OPS productivity".

Although generally reflective of ANSPs' performance, factors beyond the control of the ANSP can cause low levels of productivity-for example a geopolitical event that alter traffic demand.

ATCO in OPS productivity is driven by traffic levels and an ANSP's ability to utilize its ATCOs in operations (OPS) resources. Although they cannot affect traffic demand, ANSPs may improve productivity by utilizing flexible rostering and adapting airspace configuration to open and close sectors according to evolving traffic patterns.

Furthermore, advances in technology are now focusing more than ever on reducing the workload of ATCOSs in OPS to enable them to safely manage higher levels of traffic in a given volume of airspace. Training associated with the introduction of technology, however, can lead to short-term reductions in productivity.

Airspace complexity also affects ATCO in OPS productivity. Lower airspace will typically have lower levels of ATCO in OPS productivity than upper airspace where aircraft are flying at more consistent altitudes and on non-crossing routes. Therefore, an ANSP operating a high proportion of sectors in lower airspace, or with numerous busy airports with complex approach sectors, is likely to have lower ATCO in OPS productivity than an ANSP with more overflights at higher altitude.

5.6.1 ATCO in OPS hour productivity (CANSO KPI 2B)

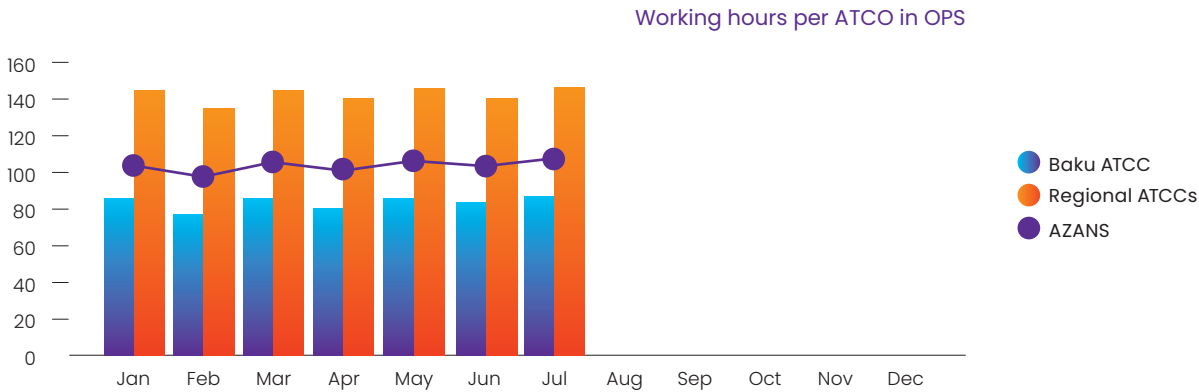KPI "ATCO in OPS hour productivity" is calculated by formula "IFR flight hours" divided by "ATCOs in OPS hours"

ATCO in OPS hour productivity (AZANS) July 2023	**1.081**
ATCO in OPS hour productivity (Baku ATCC) July 2023	**2.234**
ATCO in OPS hour productivity (Regional ATCCs) July 2023	**0.099**

ATCO in OPS hour productivity

- ● Baku ATCC
- ● Regional ATCCs
- ● AZANS
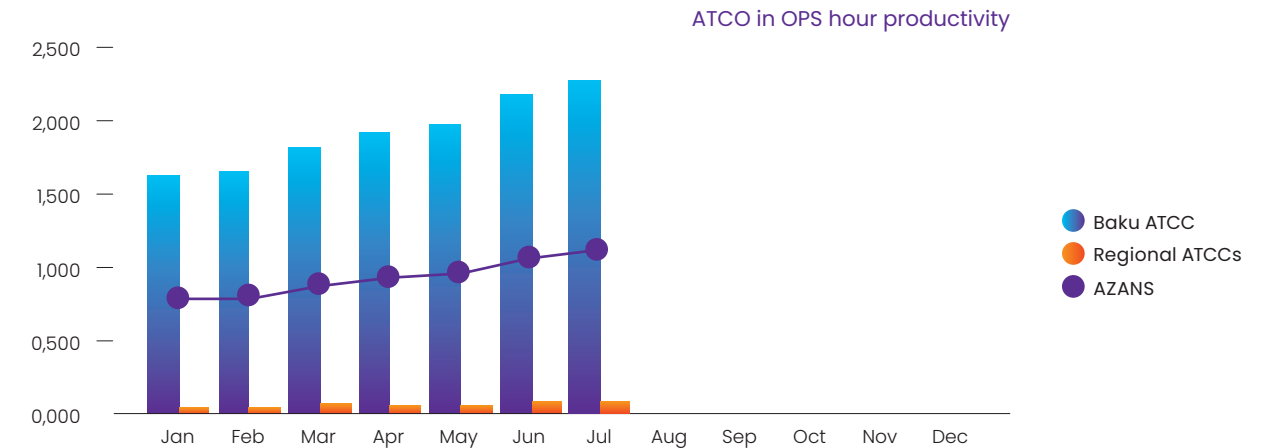
5.6.2 Working hours per ATCO in OPS (CANSO KPI 3B)

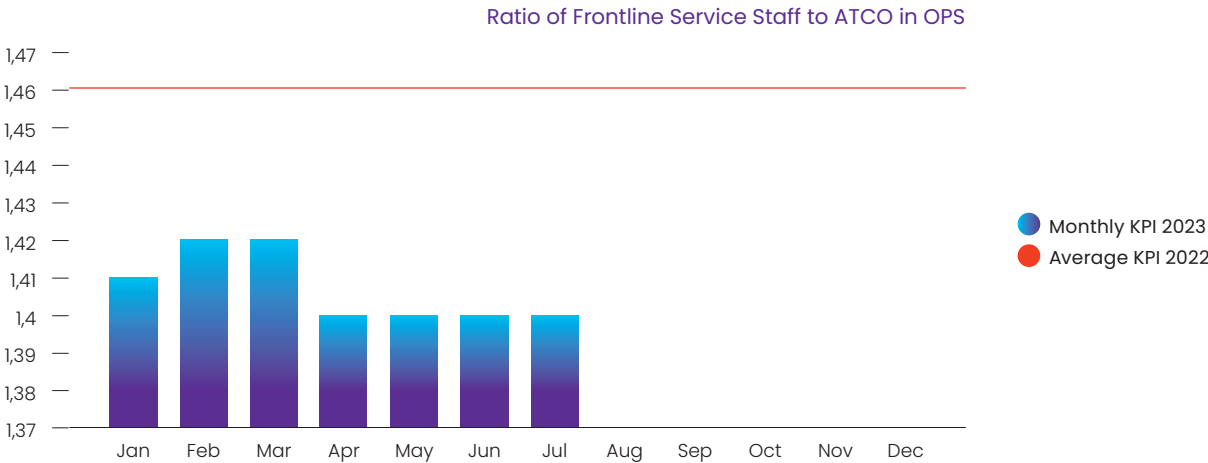KPI "Working hours per ATCO in OPS" is calculated by formula "ATCO in OPS hours" divided "No of ATCO in OPS"

Working hours per ATCO in OPS (AZANS) July 2023	**106.7**
Working hours per ATCO in OPS (Baku ATCC) July 2023	**87.0**
Working hours per ATCO in OPS (Regional ATCCs) July 2023	**148.2**

Working hours per ATCO in OPS

5.6.3 IFR hours per ATCO in OPS (CANSO KPI 3C)

KPI "IFR hours per ATCO in OPS" is calculated by formula "IFR flight hours" divided by "No of ATCO in OPS"

IFR hour per ATCO in OPS (AZANS) July 2023	**65.6**
IFR hour per ATCO in OPS (Baku ATCC) July 2023	**96.1**
IFR hour per ATCO in OPS (Regional ATCCs) July 2023	**9.7**

IFR hours per ATCO in OPS

5.6.4 Ratio of Frontline Service Staff to ATCO in OPS (CANSO KPI 3D)

KPI "Ratio of Frontline Service Staff to ATCO in OPS" is calculated by formula "No. Frontline Service Support Staff" divided by "No of ATCO in OPS"
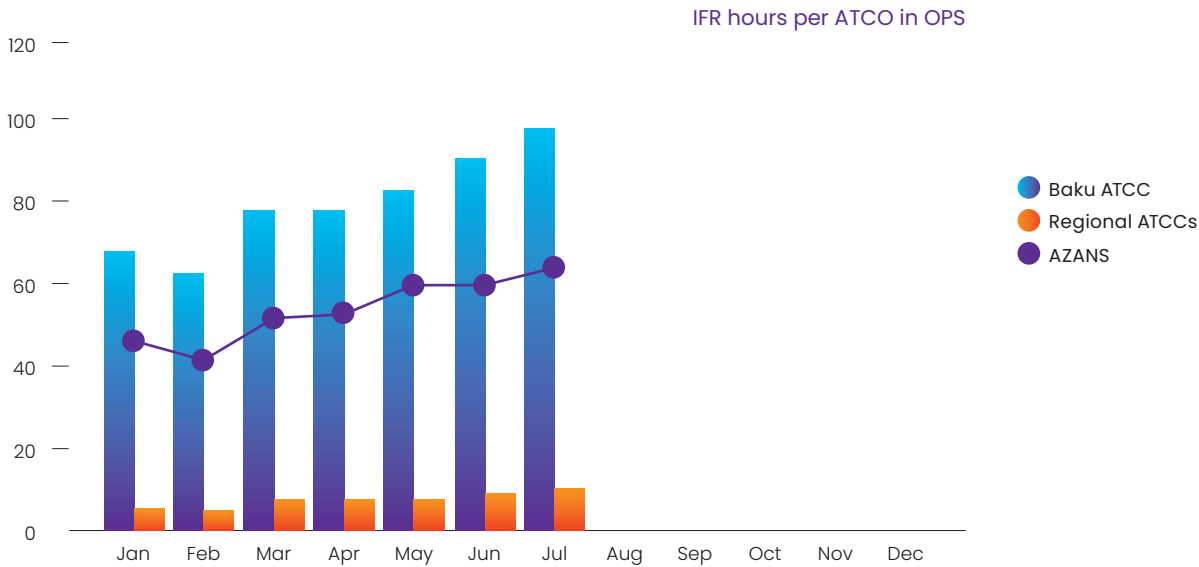
Ratio of Frontline Service Staff to ATCO in OPS July 2023	**1.40**

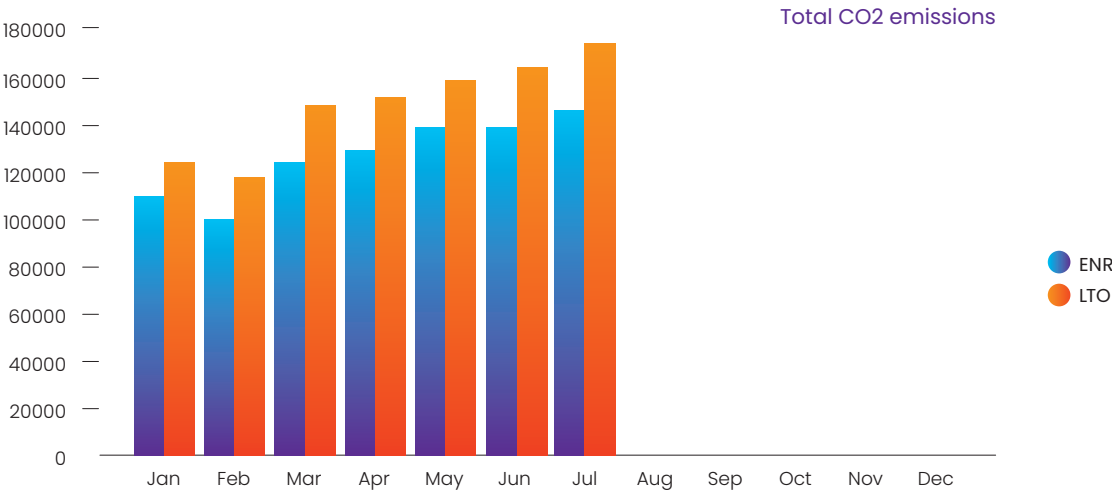Ratio of Frontline Service Staff to ATCO in OPS

5.7 CO2 emissions

5.7.1 Total CO2 emissions

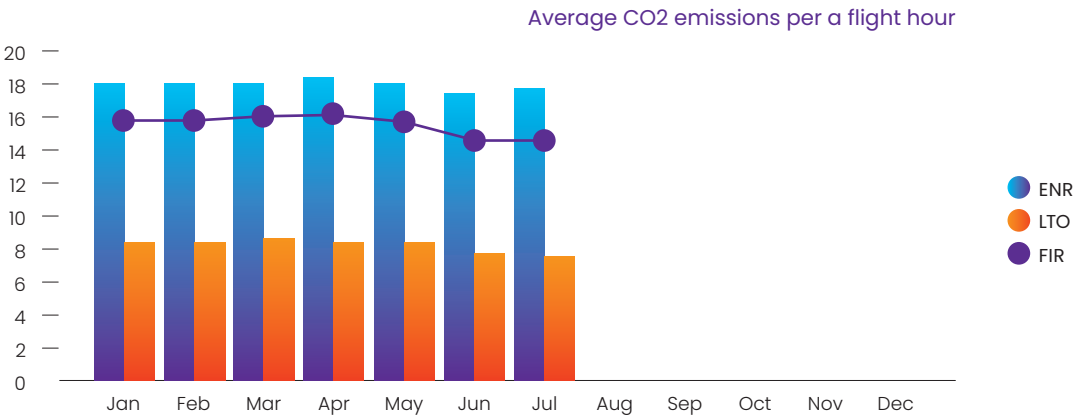All the KPI's for CO_2 emissions are calculated for FIR, En-route (ENR) and Landing-take-off Operations (LTO).

Total CO_2 emissions (FIR) July 2023	**173 956 tons**
Total CO_2 emissions (ENR) July 2023	**147 472 tons**
Total CO_2 emissions (LTO) July 2023	**26 484 tons**

Total CO2 emissions

5.7.2 CO2 emissions per a flight hour

CO2 emissions per a flight hour (FIR) July 2023   **14.5 ton/hour**
CO2 emissions per a flight hour (ENR) July 2023   **17.2 ton/hour**
CO2 emissions per a flight hour (LTO) July 2023   **7.7 ton/hour**

Average CO2 emissions per a flight hour

5.7.3 CO2 emissions per a kilometer flight distance

CO2 emissions per a kilometer flight distance (FIR) July 2023   **18 kg/km**
CO2 emissions per a kilometer flight distance (ENR) July 2023   **19 kg/km**
CO2 emissions per a kilometer flight distance (LTO) July 2023   **11 kg/km**

Average CO2 emissions per a kilometer flight distance

5.7.4 CO2 emissions per a flight

CO2 emissions per a flight (FIR) July 2023   **7.6 ton/flight**
CO2 emissions per a flight (ENR) July 2023   **9.1 ton/flight**
CO2 emissions per a flight (AD) July 2023   **3.9 ton/flight**

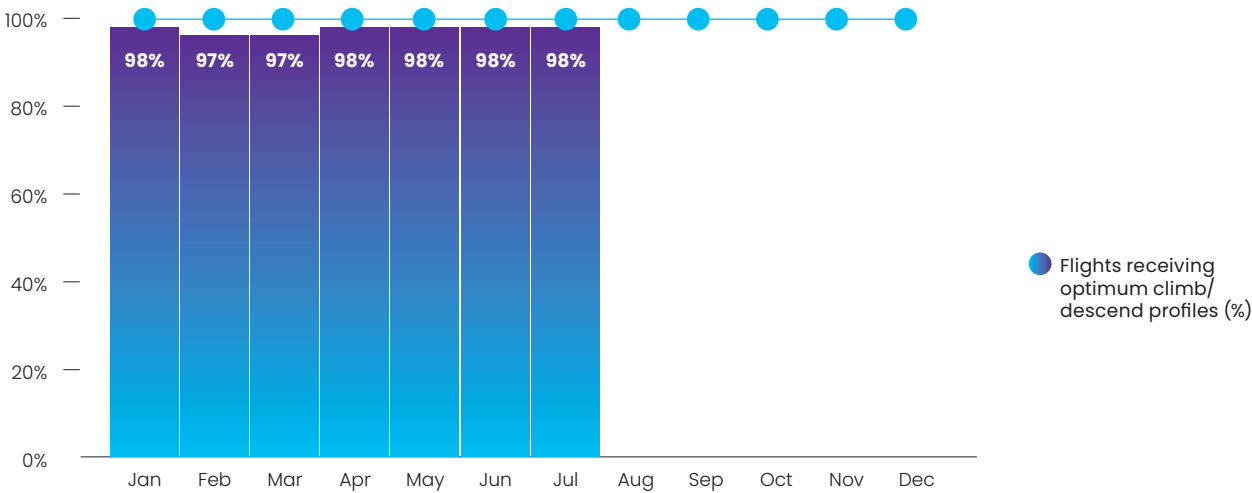**Average CO2 emissions per a flight**
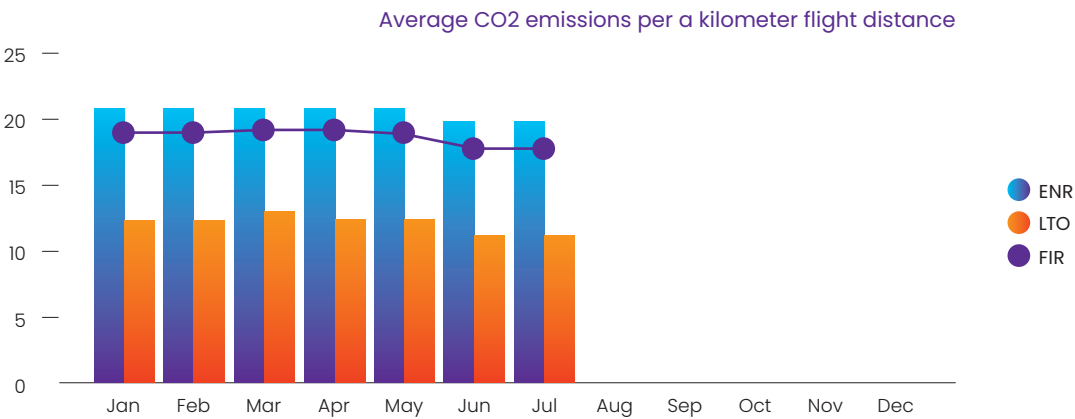
5.8 KPI – CCO/CDO operations

Introducing of CCO (Continues Climb Operations) and CDO (Continues Descend Operations) is an initiative to improve ATM efficiency, decrease fuel use and CO2 reduction.

«KPI – CCO/CDO operations » measures percentage of ACFT flown as CCO/CDO at airport Baku/Heydar Aliyev.
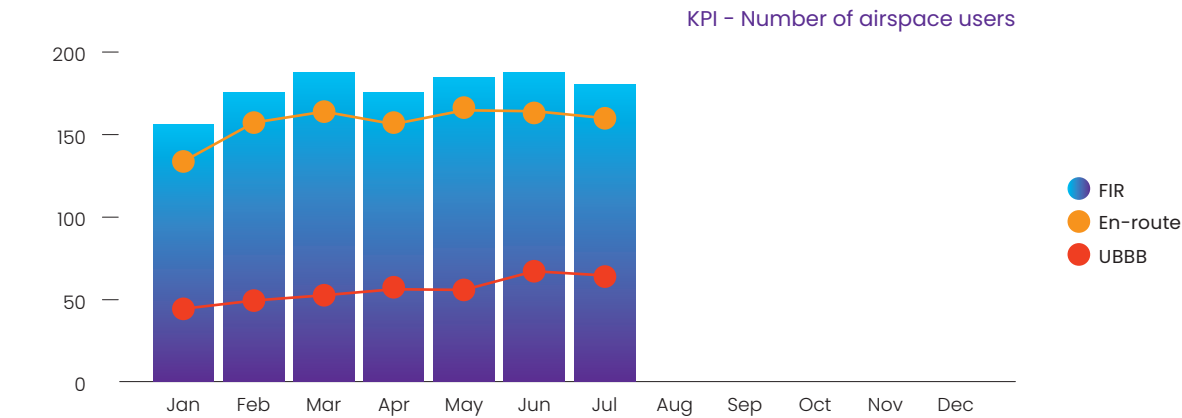
KPI - CCO/CDO operations July 2023   **98%**

5.9 KPI – Number of airspace users

The main goal of AZANS, as an air navigation services provider, is to ensure flight safety and provide high-quality air navigation services. One of the indicators is the preservation and increase in the number of the service users - airlines.

Only commercial airlines operating cargo and passenger transportation were used to measure KPI – Number of airspace users. State and general aviation were not taken into account.

KPI - Number of airspace users (FIR) July 2023   **187 Airlines**

KPI - Number of airspace users (ENR) July 2023   **163 Airlines**

KPI - Number of airspace users (AD) July 2023   **63 Airlines**

KPI - Number of airspace users

- FIR
- En-route
- UBBB