

# Fleet

Aeroflot Group's fleet development strategy is based on the following principles

- operating a highly unified aircraft fleet (limited number of aircraft types in each segment)
- improving the average seat capacity and efficiency of aircraft
- operating a young fleet
- increasing the share of modern Russian-built aircraft used in operations



## Aeroflot Group's aircraft fleet evolution

For more than a decade, Aeroflot Group has been consistently refreshing and streamlining its aircraft fleet to improve its operating, environmental and technical efficiency. In 2019, the Group operated **eight types of aircraft** with an average age of 6.9 years. Aeroflot airline's **fleet is one of the youngest in the world**, with an average age of 5.0 years as at the end of 2019.

Aeroflot airline's fleet average age

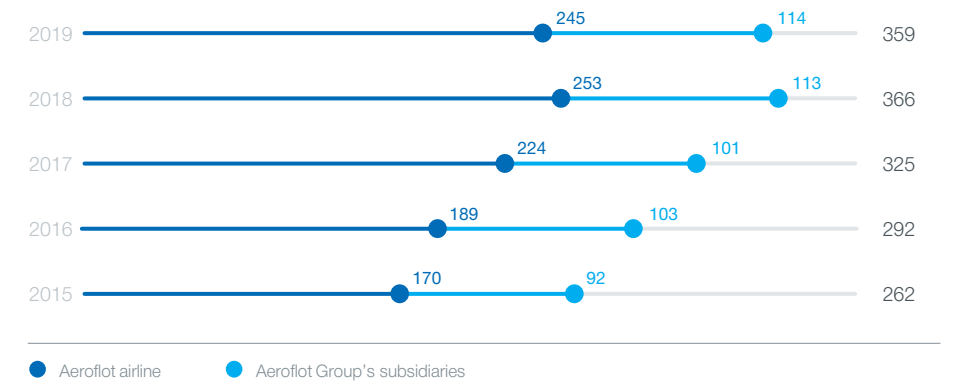
**5** years

Aeroflot Group's fleet composition and development reflects the specific business models and route networks of each airline.

Aeroflot Group added nine new aircraft to its fleet in 2019. A total of 16 aircraft were phased out over the same period. The 2019 net fleet decrease was seven aircraft. However, given the additions of the previous year, average fleet size increased by 5.5% year-on-year. Aeroflot Group operated a fleet of 359 aircraft as at the end of 2019.

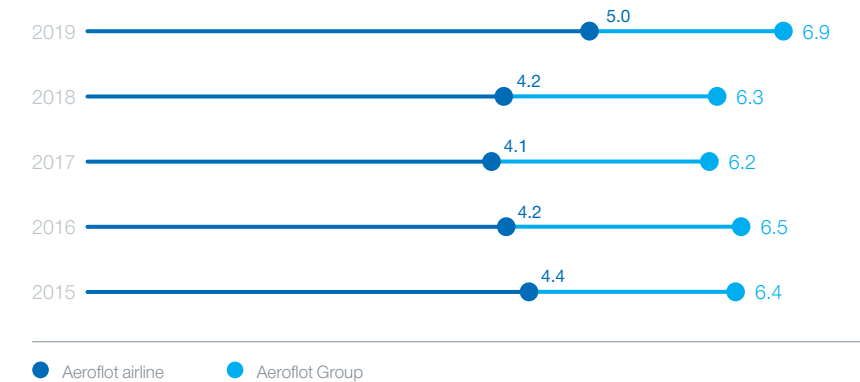
There was preparation under way in 2019 to bring online new wide-body Airbus A350 aircraft that will gradually replace the Airbus A330. The first out of a total of 22 contractually committed aircraft was added to Aeroflot airline's fleet in early 2020.

Number of aircraft in Aeroflot Group's fleet as at the year-end



Note. Data for 2018–2019 excludes An-24 and An-148 aircraft not operated by the Group during the period.

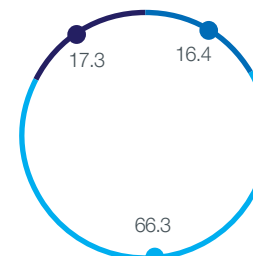
Average age of aircraft fleet in operation, years



Aeroflot Group's aircraft fleet by type

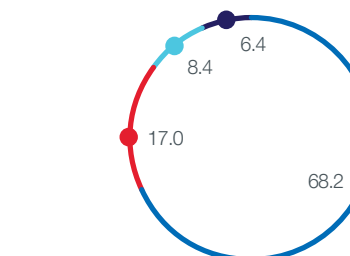
	<b>AEROFLOT</b> Russian Airlines	<b>ROSSIYA</b>	<b>pobeda</b>	<b>Aurora</b>
	<b>5</b> types	<b>4</b> types	<b>1</b> type	<b>3</b> types
	2–3 travel classes	1–2 travel classes	One travel class	1–2 travel classes
<b>Wide-body</b>				
	→ Airbus A330 → Boeing 777	→ Boeing 747 → Boeing 777	—	—
<b>Narrow-body</b>				
<b>Medium-haul</b>				
	→ Airbus A320 (family) → Boeing 737 NG	→ Airbus A320 (family) → Boeing 737 NG	→ Boeing 737 NG	→ Airbus A319
<b>Regional</b>				
	→ SSJ100	—	—	→ DHC-6-400 → DHC-8-200/300/400

Aeroflot Group's fleet by type of aircraft as at 31 December 2019, %



- Wide-body
- Narrow-body (medium-haul)
- Narrow-body (regional)

Aeroflot Group's fleet by airline as at 31 December 2019, %



- Aeroflot
- Pobeda
- Rossiya
- Aurora

Aeroflot Group operated a fleet of

**359** aircraft

Aeroflot Group's aircraft fleet

Type of aircraft	As at 31 December 2018	Change 2019		As at 31 December 2019
		phased in	phased out	
<b>Wide-body</b>	<b>58</b>	<b>2</b>	<b>(1)</b>	<b>59</b>
Airbus A330-200	5	—	—	5
Airbus A330-300	17	—	(1)	16
Boeing 777-300	5	—	—	5
Boeing 777-300ER	22	2	—	24
Boeing 747-400	9	—	—	9
<b>Narrow-body (medium-haul)</b>	<b>244</b>	<b>7</b>	<b>(13)</b>	<b>238</b>
Airbus A319	35	—	(5)	30
Airbus A320	85	1	(4)	82
Airbus A321	37	—	(4)	33
Boeing 737-800	87	6	—	93
<b>Narrow-body (regional)</b>	<b>64</b>	<b>—</b>	<b>(2)</b>	<b>62</b>
DHC-6-400	3	—	—	3
DHC-8-200	2	—	—	2
DHC-8-300	4	—	(1)	3
DHC-8-400	5	—	—	5
Superjet 100	50	—	(1)	49
<b>TOTAL</b>	<b>366</b>	<b>9</b>	<b>(16)</b>	<b>359</b>

Note. Data excludes one An-24 aircraft that was not operated in 2018 and 2019.

## Operational Review

continued

### Aeroflot airline's aircraft fleet evolution

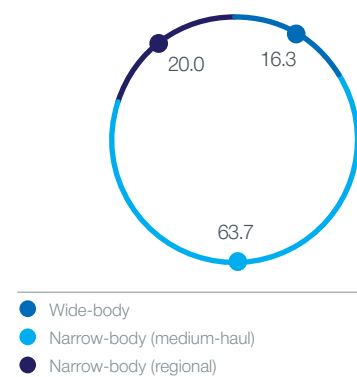
Aeroflot airline's fleet includes five types of aircraft with two to three travel classes. As seat capacity in comparable narrowbody aircraft is different between Business and Economy classes, we can adjust the Business to Economy ratio for more effective, demand-driven capacity management.

Two wide-body Boeing 777-300ER aircraft were added to Aeroflot airline's fleet in 2019, while net fleet decrease was eight aircraft. As at the end of 2019, Aeroflot airline had 245 aircraft, including 40 wide-body aircraft, 156 narrow-body medium-haul aircraft and 49 regional narrow-body aircraft.

#### Aeroflot airline's aircraft fleet

Type of aircraft	As at 31 December 2018	As at 31 December 2019	Change
<b>Wide-body</b>	<b>39</b>	<b>40</b>	<b>1</b>
Airbus A330-200	5	5	–
Airbus A330-300	17	16	(1)
Boeing 777-300ER	17	19	2
<b>Narrow-body (medium-haul)</b>	<b>164</b>	<b>156</b>	<b>(8)</b>
Airbus A320	80	76	(4)
Airbus A321	37	33	(4)
Boeing 737-800	47	47	–
<b>Narrow-body (regional)</b>	<b>50</b>	<b>49</b>	<b>(1)</b>
Superjet 100	50	49	(1)
<b>TOTAL</b>	<b>253</b>	<b>245</b>	<b>(8)</b>

Aeroflot airline's fleet by type of aircraft as at 31 December 2019, %



Aeroflot airline's fleet in 2019

**245** aircraft



Wide-body

**40**



Narrow-body  
(medium-haul)

**156**



Narrow-body  
(regional)

**49**

### Aircraft fleet of Rossiya, Pobeda and Aurora

In 2019, Rossiya airline operated Airbus A320 narrow-body aircraft on scheduled routes and Boeing 777 and 747 wide-body aircraft on leisure flights (to destinations under the charter programme and resorts of the Black Sea) and flights to the Russian Far East destinations. Boeing 737 aircraft were used on both the scheduled and charter programmes. As at the end of 2019, Rossiya operated a total fleet of 61 aircraft.

The aircraft fleet of the low-cost carrier Pobeda comprises one aircraft type, Boeing 737-800, with a single cabin configuration. In 2019, Pobeda received six new narrow-body Boeing 737-800 aircraft, expanding its total fleet to 30 aircraft as at the end of the year.

Aurora airline operates narrow-body Airbus A319 on scheduled flights and DHC-8 and DHC-6 turboprop aircraft on local flights. Aurora had a total fleet of 23 aircraft as at the end of 2019.

#### Subsidiaries' aircraft fleet

Type of aircraft	As at 31 December 2018	As at 31 December 2019	Change
<b>Rossiya airline</b>	<b>65</b>	<b>61</b>	<b>(4)</b>
Boeing 777-300	5	5	–
Boeing 777-300ER	5	5	–
Boeing 747-400	9	9	–
Airbus A319	25	20	(5)
Airbus A320	5	6	1
Boeing 737-800	16	16	–
<b>Pobeda airline</b>	<b>24</b>	<b>30</b>	<b>6</b>
Boeing 737-800	24	30	6
<b>Aurora airline</b>	<b>24</b>	<b>23</b>	<b>(1)</b>
Airbus A319	10	10	–
DHC-6-400	3	3	–
DHC-8-200	2	2	–
DHC-8-300	4	3	(1)
DHC-8-400	5	5	–
<b>TOTAL</b>	<b>113</b>	<b>114</b>	<b>1</b>

Note. Data excludes one An-24 aircraft that was not operated in 2018 and 2019.

## Aeroflot Group's aircraft fleet

**59** aircraft

Wide-body  
Long-haul



**Airbus A330-300** 16 aircraft

Length, m	63.69
Wingspan, m	60.3
Seating capacity, seats	293-302
Maximum take-off weight, kg	230,000
Engines	RR Trent 772B
Flight range, km	9,500



**Airbus A330-200** 5 aircraft

Length, m	58.82
Wingspan, m	60.3
Seating capacity, seats	229-241
Maximum take-off weight, kg	230,000
Engines	RR Trent 772B
Flight range, km	11,200



**Boeing 777-300ER** 24 aircraft

Length, m	73.9
Wingspan, m	64.8
Seating capacity, seats	373-457
Maximum take-off weight, kg	351,530
Engines	GE 90-115BL
Flight range, km	14,594



**Boeing 777-300** 5 aircraft

Length, m	73.9
Wingspan, m	60.9
Seating capacity, seats	373
Maximum take-off weight, kg	299,370
Engines	RR211 Trent 892
Flight range, km	11,135



**Boeing 747-400** 9 aircraft

Length, m	70.6
Wingspan, m	64.4
Seating capacity, seats	447-522
Maximum take-off weight, kg	396,890
Engines	CF6-80C2, PW4056
Flight range, km	13,450

**238** aircraft

Narrow-body  
Middle-haul



**Boeing 737-800** 93 aircraft

Length, m	39.5
Wingspan, m	35.8
Seating capacity, seats	158-189
Maximum take-off weight, kg	79,015
Engines	CFM 56-7B x 2
Flight range, km	5,765



**Airbus A321** 33 aircraft

Length, m	44.5
Wingspan, m	35.8
Seating capacity, seats	170-183
Maximum take-off weight, kg	89,000
Engines	CFM 56-5B
Flight range, km	3,800



**Airbus A320** 82 aircraft

Length, m	37.6
Wingspan, m	35.8
Seating capacity, seats	140-168
Maximum take-off weight, kg	77,000
Engines	CFM 56-5A/5B
Flight range, km	6,150



**Airbus A319** 30 aircraft

Length, m	33.8
Wingspan, m	34.1
Seating capacity, seats	128-138
Maximum take-off weight, kg	75,500
Engines	CFM 56-5A/5B
Flight range, km	6,800

**62** aircraft

Narrow-body  
Regional



**SSJ100** 49 aircraft

Length, m	29.9
Wingspan, m	27.8
Seating capacity, seats	87
Maximum take-off weight, kg	45,880
Engines	Power Jet SaM146
Flight range, km	2,400



**DHC 8-400** 5 aircraft

Length, m	32.8
Wingspan, m	28.4
Seating capacity, seats	70
Maximum take-off weight, kg	29,574
Engines	PW150A
Flight range, km	2,532



**DHC 8-300** 3 aircraft

Length, m	25.7
Wingspan, m	27.4
Seating capacity, seats	50
Maximum take-off weight, kg	19,505
Engines	PW123
Flight range, km	2,500



**DHC 8-200** 2 aircraft

Length, m	22.2
Wingspan, m	25.9
Seating capacity, seats	37
Maximum take-off weight, kg	16,466
Engines	PW123
Flight range, km	1,710



**DHC 6-400** 3 aircraft

Length, m	15.8
Wingspan, m	19.8
Seating capacity, seats	19
Maximum take-off weight, kg	5,670
Engines	PTA6A-34
Flight range, km	1,800



Operational Review  
continued

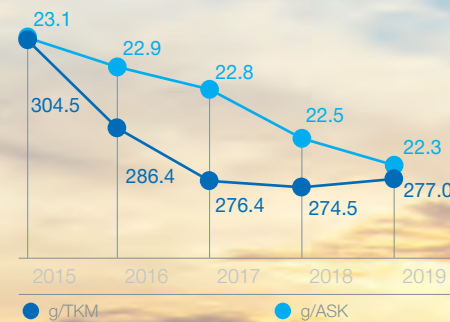
Fuel efficiency

An important benefit of the young aircraft fleet is high fuel efficiency, which also results in a lower environmental impact and significantly reduced CO<sub>2</sub> and NO<sub>x</sub> air emissions.

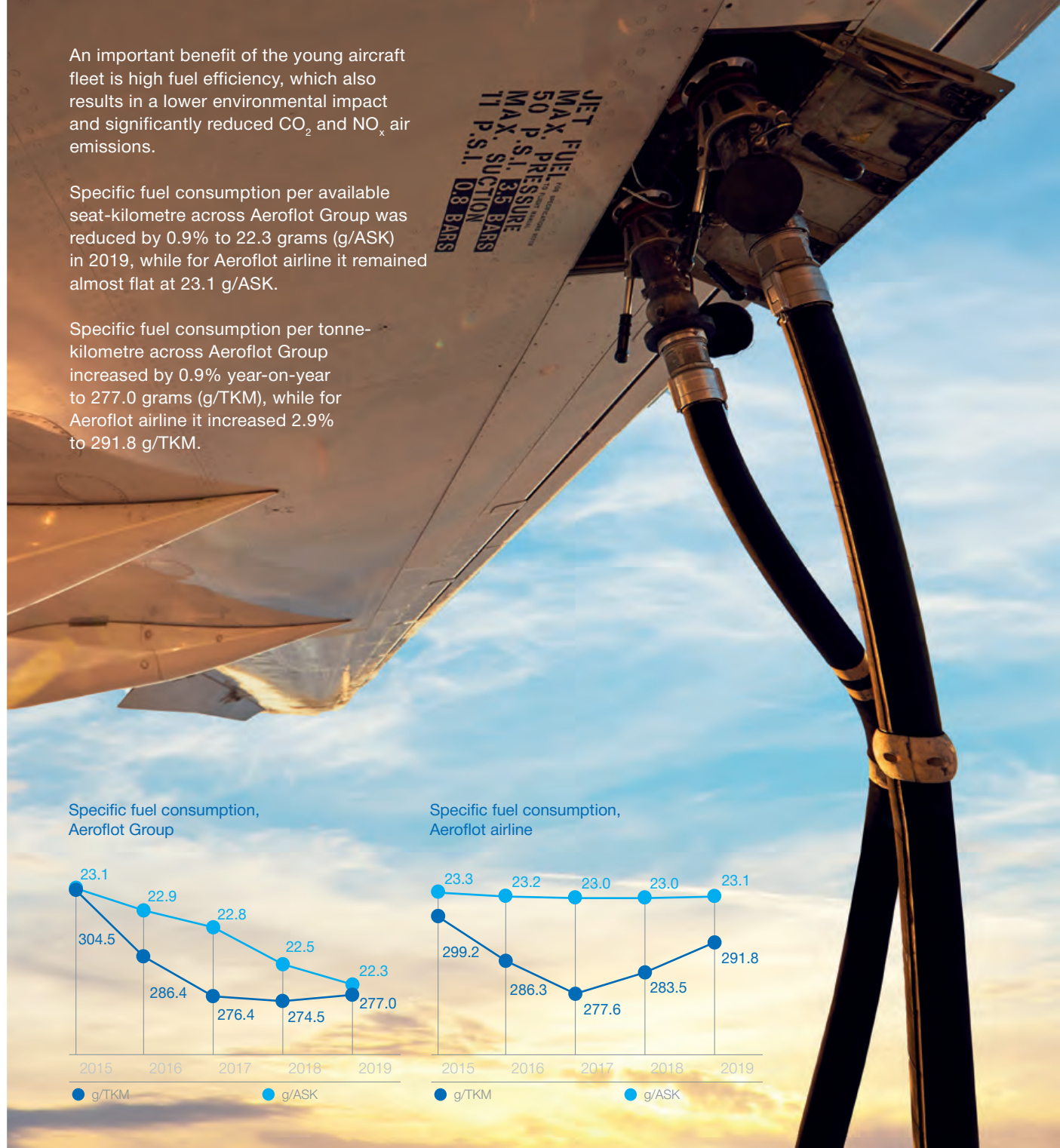
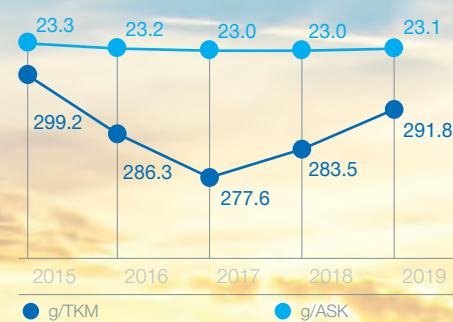
Specific fuel consumption per available seat-kilometre across Aeroflot Group was reduced by 0.9% to 22.3 grams (g/ASK) in 2019, while for Aeroflot airline it remained almost flat at 23.1 g/ASK.

Specific fuel consumption per tonne-kilometre across Aeroflot Group increased by 0.9% year-on-year to 277.0 grams (g/TKM), while for Aeroflot airline it increased 2.9% to 291.8 g/TKM.

Specific fuel consumption, Aeroflot Group



Specific fuel consumption, Aeroflot airline



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STRATEGIC REPORT

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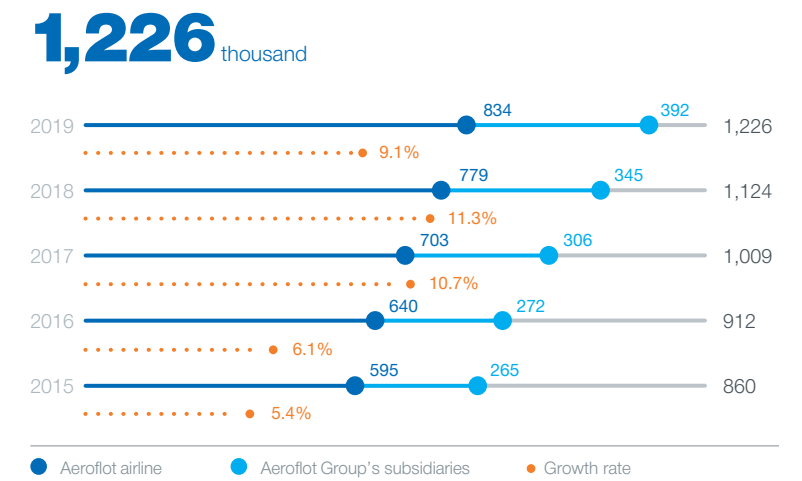
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Flight hours

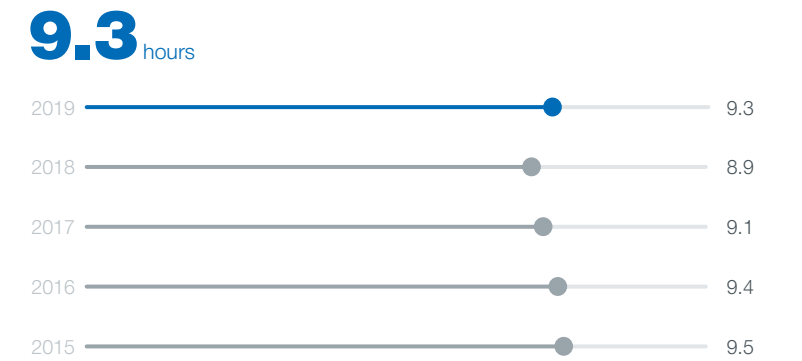
Aeroflot Group maintains high fleet utilisation efficiency. Due to the expansion of Aeroflot Group operations in 2019, total flight hours increased by 9.1% year-on-year to 1,226 thousand hours. Aeroflot airline posted a 7.0% increase to 834 thousand hours.

Aeroflot Group's flight hours per aircraft in operation per day averaged 9.3 vs 8.9 in 2018. Aeroflot airline's flight hours per aircraft in operation per day averaged 9.2.

Flight hours



Average flight hours per aircraft in operation per day for Aeroflot Group



Note. Average flight hours per aircraft in operation per day calculated as the average of the opening and closing number of aircraft with no adjustments for maintenance and other downtime for technical reasons.

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02

STRATEGIC REPORT

03

04