3.8

Company

profile

ENVIRONMENTAL POLICY

Reducing our Company's environmental impact is an indispensable element of our sustainable development. With that in mind, our environmental protection programme includes the following key priorities:

- » Resource management, including the development and implementation of technologies to ensure efficient use of natural resources;
- » Taking steps to avoid contributing to man-made climate change and paying suitable compensation for any environmental damage caused;
- » Monitoring the environmental impact of our business operations;
- » Ensuring environmental protection in line with international standards.

As part of our overall Policy on Health and Safety Management, we conduct regular audits to ensure stringent compliance with international standards on atmospheric emissions. We are able to keep our emissions at low levels by focusing on our fleet: in addition to operating young and efficient aircraft whenever possible, we are also taking steps to modify older aircraft that do not meet emissions standards.

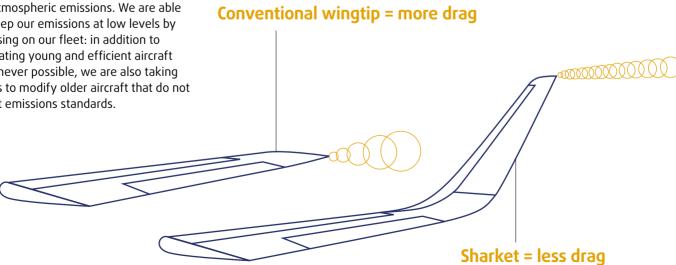
A young fleet

Our Company is the only airline in Kazakhstan operating aircraft from the Airbus A319/320/321 family. In addition to offering passengers a high level of comfort, all of these aircraft are also very environmentally friendly, ensuring the best fuel economy and lowest levels of emissions and noise footprint in their class. The Airbus A320 NEO features innovative Pratt & Whitney engines that are 15% more fuel-efficient than their predecessors. Air Astana's first Airbus A320 NEO was delivered and put into service in November 2016. The A320 NEO will operate on domestic flights, as well as international flights to China, India, Russia, Turkey and the United Arab Emirates.

Our Company also operates a number of Boeing 757-200 aircraft, which feature innovative technologies enabling excellent fuel efficiency, low noise levels, a high level of comfort and excellent operating performance.

Aircraft modifications

Modifying aircraft through the addition of winglets (Boeing) or sharklets (Airbus), provides two benefits: first, they enable greater fuel efficiency; and, second, by improving aerodynamics, they make more rational flight routing possible.





Reducing greenhousegas emissions

Our Health and Safety Department monitors compliance with applicable environmental regulations and ensures the timely maintenance of all liquid-fuelled equipment—aircraft, diesel power plants, special-purpose vehicles and automobiles—an important step towards lowering emissions of greenhouse gases.

In addition to controlling emissions, our environmental protection efforts also focus on recycling. For example, we separate all of our waste paper and recycle PET bottles and used batteries. In 2017, we also began recycling two other types of waste: metal shavings and waste water used to wash wheels and brakes. Last year, some 130,000 litres of waste water was removed our authorised contractor, PromTehnoResurs.

By improving our collection and transfer procedures, we increased the volume of our recycled waste paper by 13 tonnes in 2017 year-on-year.

Water consumption by source

9.4 million litres

Total waste by type

| Total solid waste by hazard grade | 2015 | 2016 | 2017 |
|-----------------------------------|-------------------------|-----------------------|-----------------------|
| Grade 1 | Astana: 2.191 tonnes | Astana: 2.577 tonnes | Astana: 3.205 tonnes |
| (Amber List of waste) | Almaty: 6.465 tonnes | Almaty: 6.708 tonnes | Almaty: 7.969 tonnes |
| | Astana: 24.182 tonnes | | |
| Grade 2 | Almaty: 1.020 tonnes | Astana: 55.025 tonnes | Astana: 81.657 tonnes |
| (Green List of waste) | (excluding solid waste) | Almaty: 2,913 tonnes | Almaty: 2,905 tonnes |

Solid waste utilisation, burial and recycling in 2017

| | Tonnes |
|---------------------------|-----------------------|
| Reuse (waste paper) | 80.87 |
| | Hazardous waste |
| | Astana: 3.340 tonnes |
| | Almaty: 9.059 tonnes |
| Other | Solid waste |
| (disposed of by | Astana: 81.522 tonnes |
| an authorised contractor) | Almaty: 2,904 tonnes |

Solid waste utilisation 99,9%

Total costs and investment in environmental protection

| | 2015 | 2016 | 2017 |
|---|--------------------|--------------------|--------------------|
| Modernisation (monitoring systems in Astana and Almaty, schedules, containers, maximum permitted emissions, KIOSH | USD 5,485 | USD 3,296 | USD 4,819 |
| | Astana: USD 433 | Astana: USD 1,185 | Astana: USD 1,914 |
| Grade 2 (Green List of waste) | Almaty: USD 91,672 | Almaty: USD 57,411 | Almaty: USD 61,706 |
| | Astana: USD 388 | Astana: USD 332 | Astana: USD 372 |
| Emissions treatment | Almaty: USD 2,066 | Almaty: USD 1,366 | Almaty: USD 1,555 |
| Total | USD 100,044 | USD 63,589 | USD 70,367 |

Total costs and investment in environmental protection

| | 2015 | 2016 | 2017 |
|--|------------|------------|------------|
| Costs of measures to reduce environmental impact and for the environmental management system | USD 96,661 | USD 63,589 | USD 53,190 |
| Staff for education and training | USD 681 | USD 1,032 | USD 531 |
| External services for the environmental management system | USD 5,485 | USD 3,296 | USD 4,820 |
| Research and development | USD 4,804 | USD 951 | USD 2,090 |
| Additional costs for the implementation of clean technologies(containers for batteries) | | USD 280 | USD 756 |
| Other costs related to environmental management | USD 85,690 | USD 58,030 | USD 44,994 |
| Total | USD 96,661 | USD 63,589 | USD 53,189 |

Emissions

Greenhouse-gas emissions

| | 2015 | 2016 | 2017 | Reason for significant changes in emissions that triggered a recalculation of base- year emissions |
|---|-----------------|-----------------|------------------|--|
| Greenhouse-gas | | | | Diesel power plants in |
| emissions, in metric tonnes of CO ₂ or | Almaty: 678.319 | Almaty: 671.468 | Almaty: 700.2149 | Almaty are operated more intensively |
| equivalent | Astana: 730.611 | Astana: 700.175 | Astana: 697.088 | compared to Astana |

Energy consumption by energy type

| Total energy consumption | Total e | energy consumption | |
|--------------------------|-----------|--------------------|-----------|
| | 2015 | 2016 | 2017 |
| Electricity (kW) | 2,572,598 | 2,272,981 | 2,680,210 |
| Heat (Gcal) | 620 | 600 | 640 |

Educational projects

Given the importance of environmental issues for our business, we hold environmental competitions to promote environmental awareness, organise events to celebrate World Environment Day and run internal campaigns to educate staff on environmental protection. In 2017, we held a drawing competition for employees' children called "The Environment: The World through Children's Eyes". The winning drawings were printed in our 2018 corporate desk calendars.