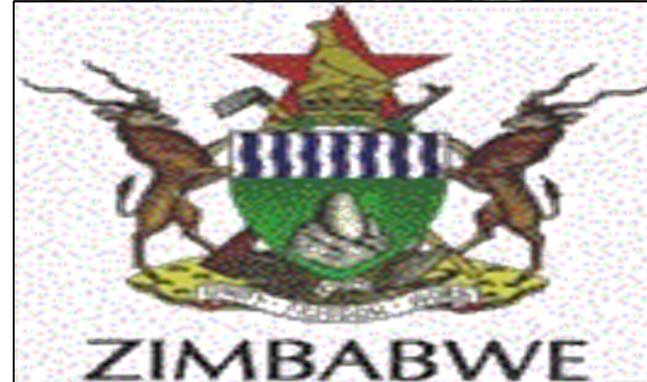


AIRPORT ENVIRONMENTAL MANAGEMENT

**AIRPORTS COMPANY OF
ZIMBABWE (Pvt) Ltd. (ACZ)**

MARCH 2023



PRESENTATION OVERVIEW



- I. PART 1: Mission, Vision and Values
- II. PART 2: AVIATION AND THE ENVIRONMENT
- III. PART 3: VISION NET – ZERO
 - i. Vision Net-zero for the Aviation
 - ii. Vision Net- Zero strategies
- IV. WHAT ACZ HAS DONE!
- V. WHAT ACZ PLANS TO DO.



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PART ONE



VISION, MISSION & VALUES



Our Vision, Mission and Core values

Vision

To be the regional choice of airport services by 2030

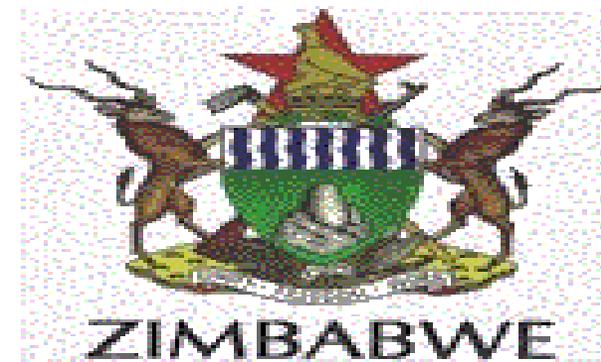
Mission

To optimize the customer's travel experience through sustainable development and management of quality airports.

Core Values

Accountability, Integrity, Reliability, People, Ownership, Respect, Teamwork ,

Sustainability [AIRPORTS] .



PART TWO

AVIATION AND THE ENVIRONMENT



CLIMATE CHANGE AND AVIATION



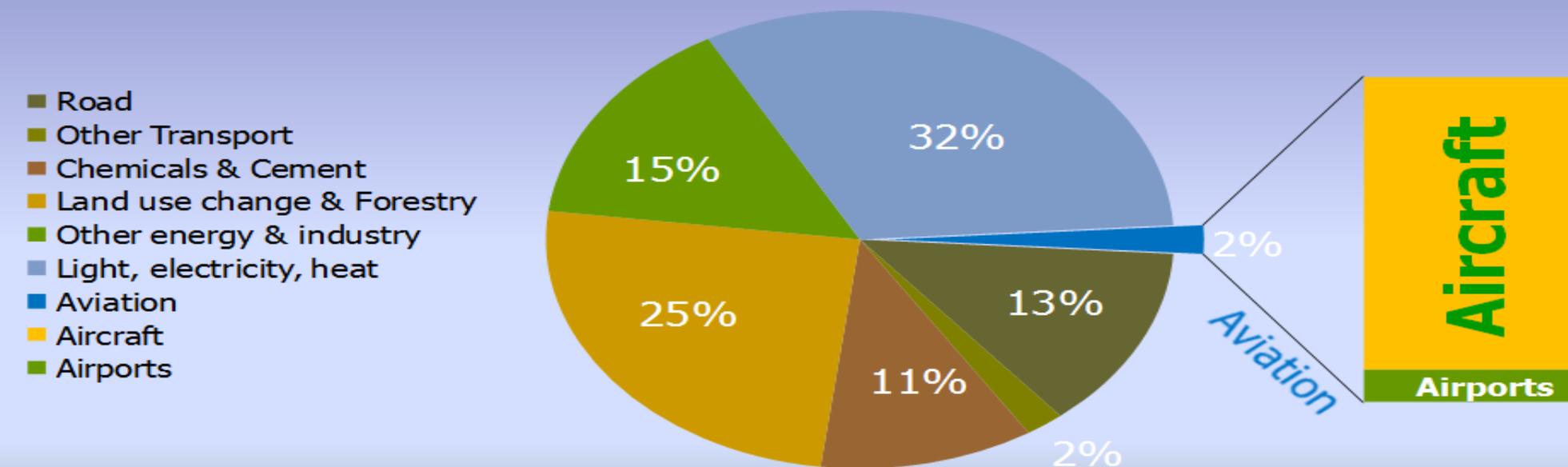
- Global warming and climate change have come to the fore as a key sustainable development issue. Many governments are taking steps to reduce GHG emissions through national policies that include the introduction of emissions trading programs, voluntary programs, carbon or energy taxes, and regulations and standards on energy efficiency and emissions.
- Global demand for air travel is estimated to increase significantly in the future. While the benefits of this growth will be substantial, it is likely to be accompanied by an increase in aviation-related environmental impacts.
- Local air quality, ambient noise levels, water quality, waste management, energy use and climate change are some of the most prominent impacts of concern.
- Pressure on the aviation industry to balance increasing global demands in air travel with environmental protection is at an all time high.



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CLIMATE CHANGE AND AVIATION

- Therefore, an effective approach to sustain operations and meet future environmental requirements is critical.
- Identifying the significant environmental impacts of aviation and effectively managing these impacts efficiently through the use of technology, procedures and policies is likely to play an important role in the sustainable growth of the aviation industry.



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PART THREE



VISION NET-ZERO BY 2050



VISION NET- ZERO BY 2050



- The Intergovernmental Panel for Climate Change (IPCC) has defined net zero emissions as the state ‘when anthropogenic CO2 emissions are balanced globally by anthropogenic CO2 removals over a specified period.
- 17th **ACI** World General Assembly, Buenos Aires, 6 November 2007, The global airport industry commits “...**to reduce carbon emissions, with the ultimate target of becoming carbon neutral.**”
- **IATA** October 2021“global civil aviation operations will achieve net-zero carbon emissions by 2050, supported by accelerated efficiency measures, energy transition and innovation across the aviation sector and in partnership with Governments around the world.”
- WHO??: the airline and airport operators, aircraft manufacturers, air navigation service providers, and many other industry stakeholders involved in adopting this critical and ambitious long-term climate goal



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VISION NET- ZERO STRATEGIES FOR AIRPORTS



- Energy savings at the airport such as limitations on the use of auxiliary power units, single engine taxi, reduced taxi times and fixed electrical ground power at gate,
- airport collaborative decision making, and surface congestion management (reducing taxiing delays).
- Replacement of air-cooled with water-cooled chillers - Use of LED lights - Demand-driven lighting, heating/cooling - Use of solar & wind power - Power plant modernization/cogeneration - Ground vehicles powered by sustainable alternative fuels/electricity
- Istanbul International Ataturk Airport became Turkey's first Green Airport in 2011. Electricity consumption has been reduced by 45% via the installation of LED lighting products.
- Rainwater is collected and used for irrigation of green spaces which led to a decrease of 45,000 m³ in water consumption. In addition, 40,000m³ water is conserved via backwashing.
- Also in 2011, Istanbul Ataturk International Airport has already managed to get 13% of total waste to be recycled



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WHAT ACZ IS DOING!



- ACZ installed energy-saving LED lights, & solar water heating as primary in Terminal buildings for all three International airports.
- ACZ is continually encouraging Concessioners and other business units within the airport environment to follow suit,
- ACZ has installed LED runway and lights for RGMIA and VFIA, this has effectively reduced power consumption by 20% and we aim to reach 40% upon completion of the exercise.
- The upgrading of the 3 airports has incorporated natural lighting and the roof design will support the planned solar installation project
- The 3 airports are on a central HAVC System using non-Ozone-depleting gases.
- ACZ intends to install combined 25MW solar farms for all 3 international airports
- All these initiatives have, and will continue to reduce the company's scope 1 & 2 carbon emissions!!!



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WHAT ACZ PLANS TO DO!



1. Develop, implement, maintain and continuously improve a Waste Management Plan in accordance with Section 12 of The Environment Management Act (Chapter 20:27) (Effluents and Solid Waste Disposal) Regulations, 2007
2. Develop, implement, maintain and continuously improve an Environmental Management System to improve its Environmental performance
3. Initiate and pursue ACI Airport Carbon Accreditation Program and contributes towards the Global Aviation Vision Net-Zero, National and Global fight against Climate Change
4. **NOTE: ALL THIS WILL ENHANCE THE COMPANY'S ENVIRONMENTAL PERFORMANCE WHILE MEETING ALL ITS LEGAL AND REGULATORY COMPLIANCE REQUIREMENTS.**



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ACA –VISION NET – ZERO!!!



**THANK
YOU!**



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