

ORQUE DU SOLEIL

TRANSITION TO EV An Airport Interpretation Sept 13th 2022

THE URGENCY BEHIND GLOBAL WARMING

Global warming:

- Average temperature raised by approx 1 degree Celsius since 1950
- Currently increasing by 0.2 degrees each decade with a growing rate
- Directly linked to GHG emissions
- Irreversible but still possible to minimise impact

Paris Agreement:

- Keep rise of global temperature well below 2 degrees compared to pre-industrial period
- Canada's short-term goal: GHG reduction target of 40% compared to 2005 levels by 2030
- EV is an important part of Canada's GHG reduction plan





THE IMPACT OF AVIATION



APPROX 12% OF TRANSPORT INDUSTRY EMISSIONS AIRPORTS APPROX 2% OF AVIATION'S EMISSIONS

SENSITIVE TO INDUSTRY ENVIRONMENTAL EFFORTS GHG REDUCTION MORE THAN EVER PART OF OUR INDUSTRY PRIORITIES AIRPORT GLOBAL CARBON MANAGEMENT PROGRAMMES AVAILABLE



ADM ENGAGEMENT IN GHG REDUCTION

COMMITMENT SUSTAINABLE DEVELOPMEN

LET'S TAKE ACTION TOGETHER FOR AIRPORTS THAT ARE WORLD-CLASS LEADERS IN SAFETY, ARE INFLUENTIAL IN THEIR SECTOR AND ARE RECOGNIZED IN THEIR COMMUNITY FOR THEIR SUSTAINABLE PRACTICES AND THEIR SOCIAL RESPONSIBILITY.



GOVERNANCE

ETHICS AND ACCOUNTABILITY

transparency and report on our

EXCHANGES, RECOGNITION &

good sustainability practices and

recognize sustainability initiatives

CONTINUOUS IMPROVEMENT

improvement process to achieve

ambitious and inspiring goals for

Focus on a constant and structured

MOBILIZATION

the community.

Demonstrate diligence, ethics, and

sustainable development progress.

Promote and recognize the sharing of

Mobilize our stakeholders through action.

ENVIRONMENT

CLIMATE & CARBON NEUTRALITY

Actively contribute to climate change mitigation and adaptation through GHG emissions reduction measures aimed at achieving carbon neutrality.

INNOVATION & CIRCULAR ECONOMY STRATEGIES

Adopt innovative approaches to reduce the environmental footprint, increase resource efficiency and responsibly manage residual materials.

BIODIVERSITY & GREEN INFRASTRUCTURE

Develop airports by taking into account biodiversity loss, while enhancing them with inspiring green spaces. Maintain support and active participation in urban greening projects and enhancement of natural environments.

SOCIAL

DIVERSITY, EQUITY & SKILLS Foster an inclusive workplace that values equity, diversity, professional development and well-being at work.

ANCHORING IN THE COMMUNITY Maintain dialogue with the community concerning aviation activities and airport development.

CUSTOMER EXPERIENCE Offer a personalized welcome and a memorable experience to passengers

and visitors. Offer products and services integrating sustainability principles.

ECONOMIC **RESPONSIBLE PROCUREMENT**

Maintain a responsible and consistent approach, into business practices and across the entire airport value chain.

ECONOMIC VITALITY & MONTREAL'S SIGNATURE

Contribute through effective, profitable, and responsible management, to the economic dynamism and to the cultural and touristic signature of the Greater Montreal region.

SOCIAL AND LOCAL ECONOMY Promote local purchasing and develop strong partnerships with social economy enterprises in order to strengthen our positive impact on society.

Philippe Rainville CEO

auce

Danielle Labergé

Chair of the Board



100% Electric I DV and GSE bv 2030

100% Use of electrical PCA/PGU by 2030

> Cut of GHG emissions related to ADM's vehicles

bv 2030

100%

100%

50%

Electric light duty vehicles (EV100) by 2030

Electric parking shuttles by 2030

Long term goal : becoming Net Zero

YUL AND YMX, AIRPORT COMMUNITIES COMMITTED TO UPHOLDING THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT



International Aerocity Aéroports



1/2021



ADM'S FLEET COMPOSITION & RELATED EV STRATEGY 270 VEHICLES – 2 SITES

19 light duty (11 electric, 4 hybrid)

• Find best available electric option

83 pickups et light trucks (1 electric, 7 hybrid)

• Early adopter & conversion of engines

48 Tractors and machinery

• Early adopter & conversion of engines

35 Heavy equipment

Market watch

20 Buses (1 electric)

• Pilot project & collaboration with manufacturer for product improvements before converting fleet

65 Airport specialty

Active participation in innovation and product development







ecotunec

CHARGING STRATEGY

- Airport committee overseeing airside charging strategy:
 - ADM fleet: deploy charging hubs (level 2 & 3 charging) in key locations around the airport
 - Community fleet: Offer opportunity charging (Level 2 & 3 & product specific)
 - Grow capacity in line with EV fleet size
 - Enable capacity to monitor & control usage
 - Maximise government subsidies





Aéroports de **Montréal**

NEXT STEPS

- Level load EV conversion through 2030
- Early adopter approach for relevant products
- EV conversion of existing pickups via Ecotuned
- Progressive deployment of charging capacity
- Seek partnerships and subsidies to initiate airport specialty vehicle electrification
 - Offer ADM as a test ground
- Explore transitional and alternate fuels:
 - biodiesel, renewable natural gas and hydrogen
- Industry watch via groups like EV-100, Propulsion Québec, ACTexpo, etc.



LEVERAGING CHANGE AS AN OPPORTUNITY

Canadian airports are likely to face similar challenges in transitioning to EV's



Where can we collaborate and accelerate our transition?

