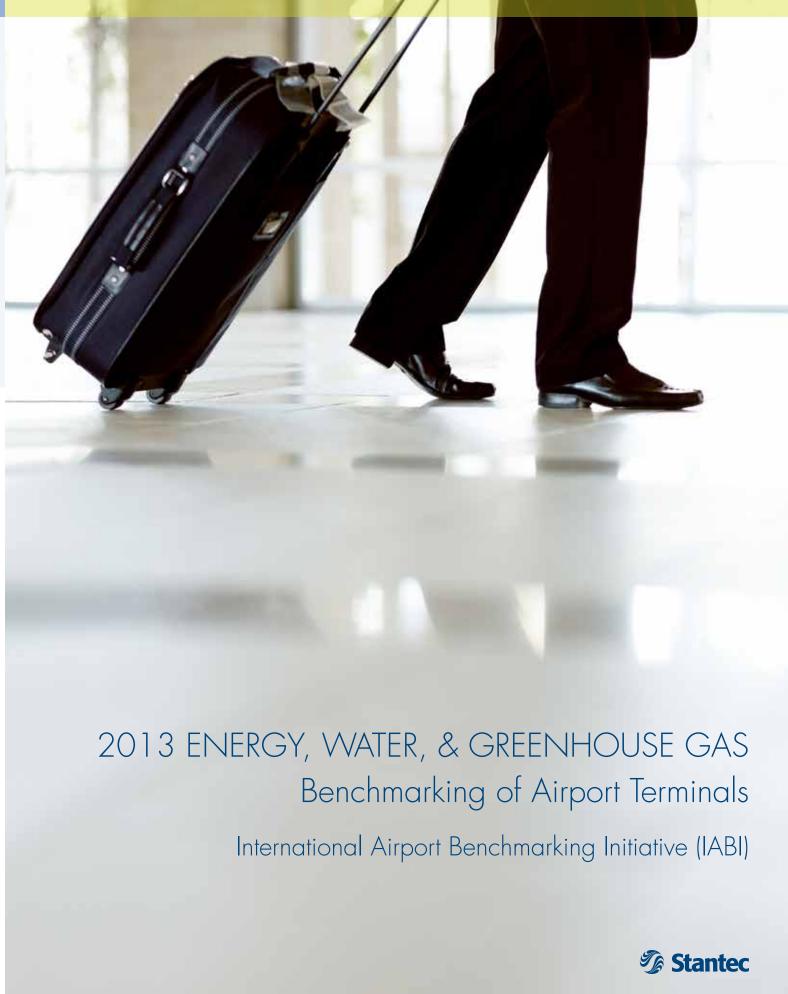
# SUPPORTING YOUR AIRPORT NOW... AND IN THE FUTURE

At Stantec, we believe there is a major opportunity to create a more sustainable aviation sector and provide real value to your airport from a sustainability perspective.

Whether you are North America's smallest or largest hub airport, your facility will benefit from the comparative data in this study. We want to work in partnership with you, to create a more sustainable, energy efficient approach to airport buildings.

## STANTEC OFFICE LOCATIONS NEAR YOU





# HOW MUCH ENERGY DOES YOUR AIRPORT CONSUME?

## HOW DOES THIS COMPARE TO YOUR PEERS?

Over the last 12 months, Stantec has worked with airports across North America to develop a comprehensive study of terminal building energy and GHG intensity. This study is to support decision makers within the aviation industry to create a more sustainable, energy efficient approach to airport building design and operation.

#### WHY BENCHMARK YOUR ENERGY USE?

Energy intensity inventories allow for a simple assessment of building performance. They are widely implemented as a cost effective means of profiling building energy consumption and can be used as a building energy comparison tool.

Building energy intensity benchmarks have been developed in North America since the 1970's. However, as a building sector, airports have not been included to date - in either the Canadian or U.S. national energy intensity databases.

'Airports are not routinely tracking energy use.
Only 35 percent, overall, reported having an energy use baseline, and fewer than half the respondents tracked energy performance.'

(Transportation Research Board of the National Academies, 2007)

Energy consumption in airports can be difficult to measure due to the complex nature of building type and processes which occur on site. This, coupled with the prevalence of airlines operating individual terminal buildings, has resulted in airport facilities being difficult to benchmark for energy.

Edmonton International Airport Terminal
 Building Expansion - Living Wall
 Vancouver International Airport Pier C Expansion
 Stynden Pindling International Airport Redevelopment Nassau Bahamas

## HOW CAN OUR STUDY BENEFIT YOUR AIRPORT?

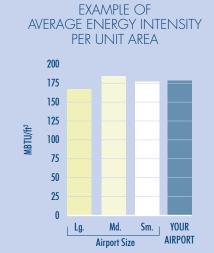
In 2012, Stantec presented participant airports with a cooperative study of their energy and GHG intensity in comparison with peer facilities.

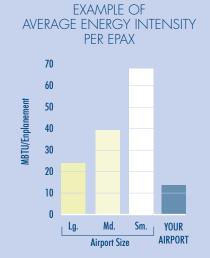
Opportunities for reduction in energy consumption and related GHG emissions were identified.

Next year, we will publish a 2013 version of the study which will focus on 2012 utility data. In addition to energy benchmarking, this study will include water baseline intensities for the first time. Water is an increasingly valuable and costly resource and the inclusion of water baselines will be a valuable addition.



### HOW DOES YOUR FACILITY COMPARE?

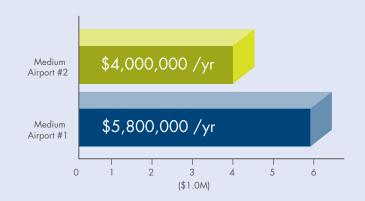




### Airport Size Criteria by Enplanement (EPAX)

Large: 8+ Million EPAX Medium: 1.5–8 Million EPAX Small: 0–1.5 Million EPAX

#### 2012 RESEARCH FINDINGS



One of the most prominent findings of the 2012 study was revealed on comparison of two facilities of similar size and age within the same climate zone.

If Medium Airport #1 was as efficient as Medium Airport #2, the savings could be up to:

\$1,800,000

per yea

We can help you identify similar savings!

#### PARTICIPANTS IN THE 2012 STUDY:

DFW, MBJ, NAS, SFO, SLC, YHM, YKA, YXC, YXJ, YYC, YYZ





