AIRCUITY®

Creating Measurably Better Environments
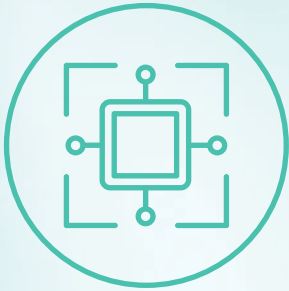
CHANGE IS IN THE AIR

Measurably Better Environments

HVAC typically represents 30% of total energy use in commercial buildings. In labs this increases to 60-70%. With other deep energy efficiency measures already implemented, HVAC is the next frontier of efficiency and productivity gains.

As *the* demand control solution, Aircuity addresses both energy use and the indoor environment by optimizing ventilation with its patented technology. Customers achieve high priority outcomes beyond energy savings which impact employee productivity, occupant safety and even cognitive function.

ACME Dashboard by Aircuity

ACME ▾ ACME Sciences Campus ▾

Summary

ACME Science Campus is a 2 Sensor Suite (SST) system with 22 Air Data Routers (ADRs) monitoring 32 laboratories, 4 vivariums, 12 offices, 5 classrooms, 1 auditorium and 60 fume hoods.

Over the last 12 months, the system helped save on average 3,116 cfm/month. The best month was a savings of 4,226 cfm, 75% below the pre-Aircuity baseline, in June 2016.

There were 23 sustained IEQ events also recorded during this period. These are periods of time longer than one hour in which a sensed parameter exceeded a stipulated threshold and the system responded by increasing the air changes per hour (ACH) above the occupied or unoccupied set point.

Savings

- $200,155 Potential Savings
- $187,025 Realized Savings (last 12 months)

Energy Savings ($) ↑ 93.4%

↑ $187K

Flow Reduction (CFM) ↑ 53.7%

Trend

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

Sensor & Hardware Assurance

Assurance is Aircuity's commitment to maintain the system through calibration and replacement so it continuously performs as specified.

Reporting

Reporting is a platform of continuously captured data, actionable insight and analytical tools that demonstrate savings achieved, protection provided and improvement opportunities.

Monitoring

Monitoring is routine review of the system by experts on Aircuity and the built environment to identify issues and opportunities that impact customer outcomes.

Aircuity Program Benefits

Value is delivered across the organization.

Energy Savings

Healthier Environment for All Occupants

Reduced Deferred Maintenance Backlog
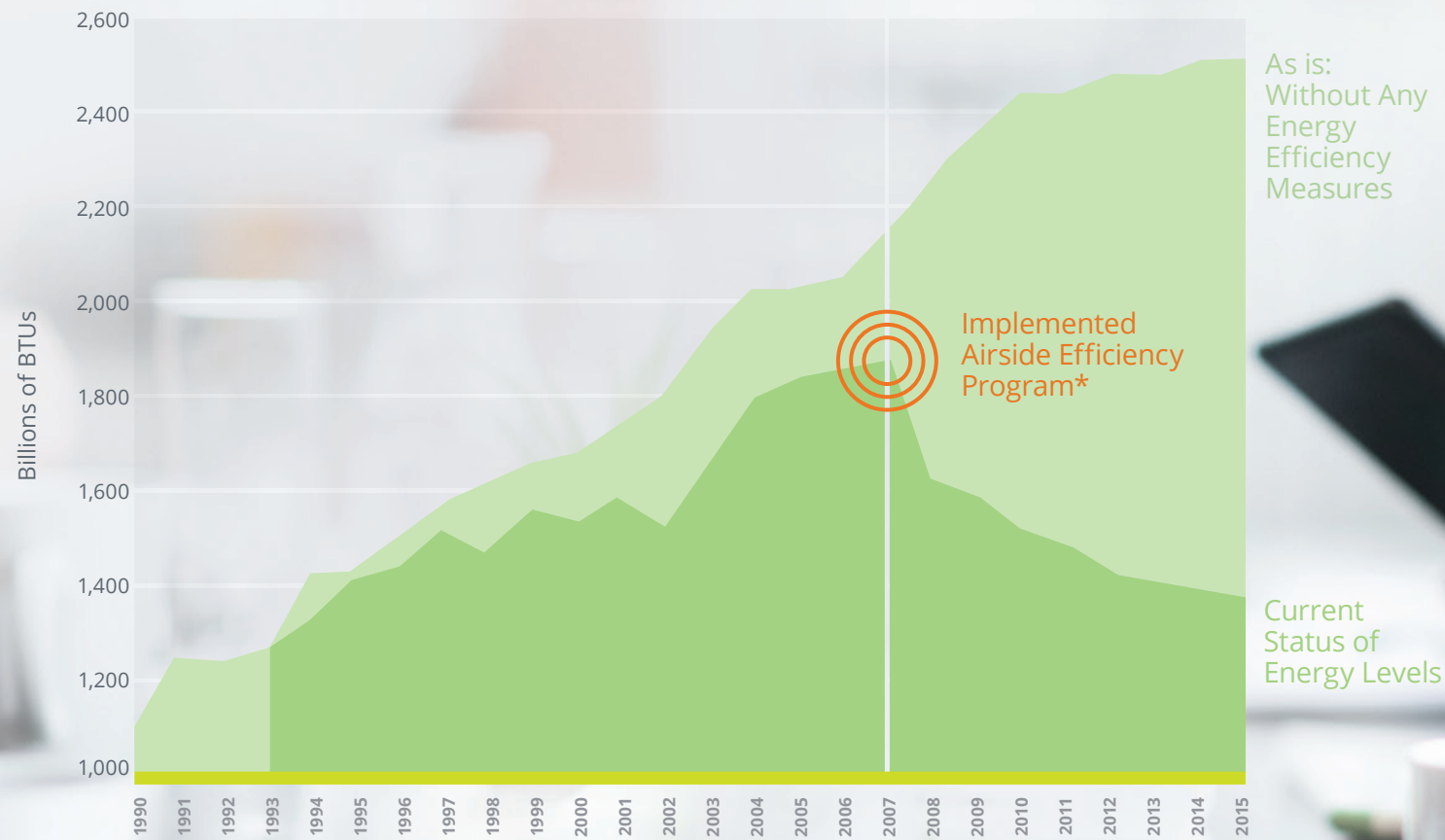
Reduced Operations and Maintenance Spend

Data Analytics for Continuous Commissioning

Buildings Support Core Mission

Aircuity University Customer

Billions of BTUs

2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000

1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

As is: Without Any Energy Efficiency Measures

Implemented Airside Efficiency Program*

Current Status of Energy Levels

* Aircuity is the most impactful efficiency measure.

Markets and Applications

A wide variety of buildings and environments benefit from Aircuity.

Customers achieve validated return on investments between two and five years.

HOSPITAL CAMPUS

GOVERNMENT

LIFE SCIENCES

COMMERCIAL OFFICE

STUDENT UNION

CLASSROOM

LAB

LIBRARY

PUBLIC ASSEMBLY

VIVARIUM

K-12 SCHOOL

UNIVERSITY CAMPUS

Hundreds of top tier institutions around the globe are creating measurably better environments.

Penn — UNIVERSITY OF PENNSYLVANIA

Beth Israel Deaconess Medical Center

Google

UNIVERSITY OF CAMBRIDGE

Lilly

MICHIGAN STATE UNIVERSITY

SUNY — The State University of New York

UCI — University of California, Irvine

amazon

UNIVERSITY of HOUSTON

WASHINGTON COUNTY SCHOOLS

UNIVERSITY OF ALBERTA

Creighton UNIVERSITY

MEMORIAL SLOAN-KETTERING CANCER CENTER — ESTABLISHED 1884

PNC

Bank of America

Texas Children's Hospital

University of Nebraska Medical Center

The Jackson Laboratory

Mohegan Sun

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