

Actionable Insights and Measures (AIM) Report Case Studies List



Following is a list of all the case studies found in the Labs2Zero AIM Report; to view descriptions, you must be an I2SL member; visit the [Member Portal benefits page](#) for descriptions.

Achieving My Green Lab Certification at a UK-Based Pharmaceutical Company
Achieving My Green Lab Certification at a Sweden-Based Pharmaceutical Company
Achieving Net Zero Energy at New University of Massachusetts Medical School Building
Air Filter Test Demonstrates Performance During Pressure Drop at Chemical Lab
Airflow Optimization, CAV to VAV Conversion at Boston-Area Lab
Air Optimization in a Cambridge, Massachusetts, Biolab
Alaska Scientific Crime Lab Improves IEQ While Reducing EUI
Arizona's Maricopa Community College Achieves Savings in Green School Lab
Balancing Occupant Comfort With Research Innovation at Promega in Wisconsin
Biology Building Renovation at McGill University Improves Energy Performance
Boston Children's Hospital Hibernates Hoods and Saves Operating Costs
Boston Private Research University Upgrades Controls With Utility Rebate
CARB Vehicle Emissions Testing Facility Decarbonizes and Saves Energy
Commissioning and Controls Upgrades Improve UC Santa Cruz Earth and Marine Sciences Building
Concordia University Genomics Center Incorporates Numerous Energy-Saving Measures
Constant-to-Variable Air Volume Lab HVAC Retrofit Saves Energy at UC San Diego
Controls, Sash Closers Reduce Carbon Footprint of California Community College Chem Lab
Chilled Beams, Heat Recovery Help Remote Newfoundland Science Facility Save Energy
Colorado School of Mines Shut the Sash Program
Data Analytics and Fieldwork Reduce Energy and Improve Occupant Comfort at UC Irvine
Demand-Based Control at Michigan State University
Demand-Based Control Reduces Airflows and Reheat at Albion College
Demand Control Optimizes Energy Savings at University of Connecticut
Demand Control System, Setbacks Save Energy at Boston Medical Center
Demand Control Ventilation, Shut the Sash at Georgetown University
Demand Control Ventilation System Retrofit Saves Energy at NYC Medical University
Displacement Ventilation Key to Lab Renovation at the University of Illinois
Energy Management and Controls System Lowers EUI at University of California Merced
Energy Recovery Heat Pipes Employed at a University Lab in Washington, DC
Energy Savings With Demand-Based Control at Arizona State University
Exhaust Fan Controls and Auto Sash Closers in a West Coast Biolab
Fit-Out Designed to Reduce EUI at Vertex Pharmaceuticals in Boston

Florida Community Hospital Incorporates Energy Recovery and Chilled Beams
Freezer Optimization at the Centers for Disease Control and Prevention
Fume Hood Retrofits at Stanford University
Genentech Labs Save Energy, Operating Costs in Exhaust Systems by Converting to VAV
High-Performance System Recovers Energy at the University of Vermont
IEQ Monitoring Control of Exhaust at a Cambridge, Massachusetts, Pharmaceutical Lab
IEQ Monitoring Control of Exhaust at Toronto's Princess Margaret Cancer Research Tower
Imperial College London Engineering Hub Designed for Energy Efficiency
Innovations Help Oregon Health and Science University Lab Lower Energy Use
Innovative Ventilation System for Cornell Large Animal Anatomy Laboratory
Integrating Energy Efficiency Early in the Design of University of Findlay Lab in Ohio
Ithaca College Engages Researchers in Making Energy Improvements
J&J Controls Energy Consumption With VAV Conversions and Setbacks in California
John Abbott College in Montreal Incorporates Energy Efficiency Measures
Lab Fitout at Harvard University Achieves LEED Gold With Various HVAC Measures
LBNL Efficiently Energizes Integrative Genomics Building
Lessons Learned Implementing Occupancy Sensors at Emory University
Manifolding Laboratory Exhaust Systems, Energy Recovery at Northeastern University in Boston
Massachusetts Pharmaceutical Company Uses Demand Control and Widened Deadbands
McGill University Cancer Wing Incorporates Myriad Energy-Saving Measures
McGill University Improves Safety and Energy Efficiency in Montreal
McGill University Medical Building Modernizes With Energy Efficiency in Mind
Measures Reduce EUI at Lafayette College Sciences Center in Pennsylvania
Michigan's Oakland University Demonstrates Efficiency Through Technology
Modular Heat-Recovery Chiller Drives Savings in Kentucky Technical College
Molecular Biology Lab in Cambridge, UK, Optimizes Energy Efficiency
Montreal Convent Converted Into Energy-Efficient Hospital Research Center
Multiple Sustainability Measures and Retrocommissioning at the University of Kentucky
Net Zero at Bristol Community College Health and Science Building
New Chemical Company Headquarters Designs in Flexibility and Fume Hood Closers
New University of Michigan Biomedical Research Facility Achieves Reliable, Efficient Systems
New York City Medical College Saves With Demand-Based Control Retrofit
Northwestern University Retrofits Laboratories With Demand-Based Controls
NREL In-House Fume Hood Testing Ensures Safety and Savings
Optimizing Reuse of an Iconic University of Michigan Building
Planning for Enhanced Energy Recovery at NREL
Pomona College Laboratory and Offices Designed for Sustainability in California
Premium Efficiency Motor Upgrades Save Energy at Emory University
Retrocommissioning at Memorial Sloan-Kettering Yields Energy Savings and Improves Comfort
Retrofitting Fume Hoods Proves a Viable Energy-Saving Alternative to Hood Replacement
Right-Sizing Laboratory Ventilation at Smith College

Safely Reducing Vivarium Ventilation Rates at the University of Houston
Science Complex at Concordia University Exceeds Canadian Model Energy Code
Simon Fraser University Fume Hood VAV Upgrade in British Columbia
Small Lab Fitout at Harvard University Achieves LEED Platinum With Energy Recovery, Other Measures
Southern California Research Institute Significantly Reduces EUI and Strives for Net Zero
Stanford Takes Sustainable Design to a New Level, Wins SEFA Award While Saving Energy
Teaching Lab Serves as a Model for Energy Efficiency at Johns Hopkins University
Toronto Office Tower Converts Floors to Labs With Modeling and Modular Approach
Turnkey Airflow Optimization Project at a New York City University
Turnkey Airflow Optimization Program at a Pharmaceutical Company U.S. Headquarters
University of British Columbia Implements Successful Shut the Sash Program
University of Chicago Lab Building Retro-Commissioning
University of Chicago Retro-Commissioning Reduces EUI Through a Variety of Measures
University of Chicago Smart Labs, Shut the Sash Program
University of Florida Completes Lab Zone Level Controls Upgrade
University of Illinois Demonstrates Energy Efficiency From a Multi-Phase Lab Upgrade
University of Illinois Nanotechnology Lab Renovates With Cleanrooms
University of Montreal Botanical Research Lab Achieves Energy and Emissions Reductions
University of Montréal Sciences Building Features a Variety of Energy-Saving Measures
University of New Hampshire Improves ULT Freezers
University Optimizes Room Controls in New York City
Updating a Pulp and Paper Mill at McGill University Into a Sustainable Laboratory
Upgraded Lab Exhaust Saves Operating Costs at University of Pennsylvania
U.S. National Lab Saves With Heat Recovery and Coils
VAV and Fume Hood Retrofit at Yale Yields Significant Energy and Cost Savings
Ventilated Cages and IEQ Sensing Save Energy in Vivarium Project
Vivarium Retrocommissioning at University of California San Francisco
Water-Glycol Heat Recovery in a 17-Story Lab Building
Wisconsin Lab Is Designed for Odor Avoidance and Substantial Energy Savings