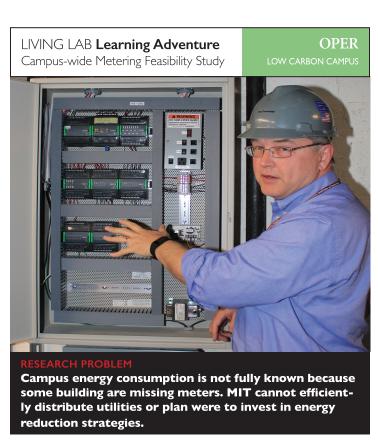


SOLUTION

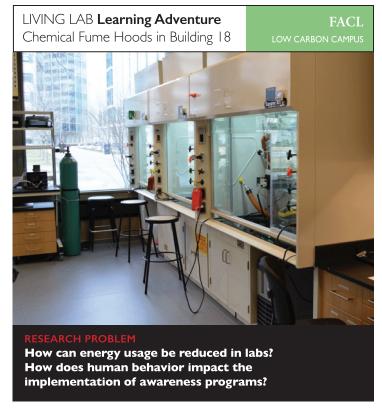
The ClimateX is an online peer-to-peer learning experiment seeking to connect learners worldwide with MIT experts in climate change.

The platform consists of a series of seminars led by distinguished MIT alumni and students, a robust digital community for synchronous discussions, and problem solving platform designed to propose and define real solutions to specific climate challenges.



SOLUTION

Conduct a feasibility study on metering of all campus buildings to help prioritize which meters are needed and to develop a strategy for phased installation.



SOLUTION

Study fume hood positions in labs and estimate potential savings associated with monitoring sash positions and implementing the "Shut the Sash" awareness program.



SOLUTION

Invent a device that transforms an ordinary bile into a hybrid E-Bike that provides feedback on pollution, traffic congestion and real-time road conditions.

Leading PlayersThe Chemistry Department and EHS Coordinator

Supporting Cast

Facilities Department, Faculty, Operations, Principle Investigators, External Partners

The Story

Building on student research (Amanti, 2006), the Chemistry Department worked with a team of partners to repair and calibrate fund hoods in the Summer of 2006. Sash sensor position data was grouped by the principle investi-



gator responsible for each fume hood and sent to the EHS Coordinator. This led to the first chemical fume hood intervention in November 2006 and the creation of the "Shut the Sash" Program. The second intervention was the release of fund hood data to the faculty and PI's in charge of each lab. The first data sets were distributed by the EHS Coordinator to the Chemistry faculty in August 2007.

These data were then distributed to other members of the lab at the faculty Pl's

Contact Niamh Kelly at niamhk@mit.edu













LIVING LAB Learning Adventure ClimateX Project

COMP

THRIVING NETWORKS





The Players:

Rajesh Kasturirangan (MIT PhD '04), Dave Damm-Luhr (MIT PhD '79)

Supporting Cast:

Office of Digital Learning, Office of Communications, Climate CoLab Office of Sustainability and Cantina (Digital Agency)

The Story

The ClimateX idea was developed by Team MITACAL (MIT Alumni for Climate Action Leadership) in response to a contest (Climate Colab) asking how to engage alumni in climate action planning at MIT.

The solution, a digital platform that fosters meaningful engagement between MIT experts and learners from around the world, addresses challenges related to Massive Open Online Courses (MOOCS), a powerful tool for reaching learners at scale, but that often suffers high attrition rates. The ClimateX experiment is designed to foster mentoring at a large scale and a sense of community among participants.

Learning activities are conducted using off-the-shelf technologies (Drupal Commons, Google Hangout) and conversations with experts are recorded and shared.

Contact Lead researcher Rajesh Kasturirangan @ rkasturi@gmail.com









LIVING LAB Learning Adventure The Copenhagen Wheel Project

REEN

LOW CARBON CAMPUS



The Players

Carlo Ratti, Director Assaf Biderman, Associate Director Eric Baczuk, Project Leader - Second Phase Christine Outram, Project Leader - First Phase

Carlo Ratti is an Italian architect, engineer, inventor, educator and activist founder of Carlo Ratti Associati and professor at MIT.

The Story

The Copenhagen Wheel was a response to an design competition that sought solutions for broadening access to biking in Copenhagen. The entry for the competition, developed by a team of MIT researchers affiliated with the SENSEable Cities Initiative, was prototyped and tested extensively on the MIT campus and in Cambridge.

This work eventually spawned a new company that recieved \$2.1m start-up funding from Spark Capital of the US, one of the lead investors in Tumblr, Twitter and Occulus.

The game-changing concept has the potential to become a widely used product and is sold by Superpedestrian, a company backed by venture capitalists who are convinced that the sleek design and simplicity will win over consumers.



Contact Lead researcher Carlo Ratti @ ratti@mit.edu













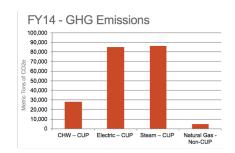


LIVING LAB Learning Adventure Campus-wide Metering Feasibility Study

OPER LOW CARBON CAMPUS

The Players MIT Department

of Facilities' System Engineering Group, Capital Renewal, Utilities, Operations and Maintenance, and System Performance and Turnover.



The Story

Several operations units within the Facilities Unit at MIT collaborated to meet the challenge of measuring the amount of energy used per building. In a perfect world, each building would include meters for all fuel types, but in reality, it is not uncommon for at least some buildings on the typical college campus to not have

Several operational stakeholders collaborated to determine the parameters of a study that identifies the gaps in metering and strategies for prioritizing the implementation of new meters on the campus.

Contact Anna Zetkulic (Associate Planner) @ setkulic@mit.edu



