THE VOLTTRON DASHBOARD

An Extensible Platform for Volttron Enabled Visualizations, Analytics, Data and Program Management

maalka

DISCOVER A SUSTAINABLE WORLD

Dr. Rimas Gulbinas – CEO Maalka

www.maalka.com  16 May 2017
Program Alignment
Maalka | CAMPUS/DISTRICT LEVEL DATA AGGREGATION

PROGRAM MANAGEMENT AND TRACKING

YEARLY & YEAR-2-DATE REPORTS
Maalka | DoE VOLTTRON - TEMPORAL INTEGRATION

REAL-TIME

Weekly/Monthly

YEARLY

1,956 METRIC TONS CO2e
Campus Level

1. How much energy are my buildings using now?
2. How much energy did my buildings use yesterday?
3. What are my peak loads?
4. How much total energy is my portfolio using?
Maalka | EXPERIMENTS

Campus Level

What are my current Experiments?

What Experiments have been run?
Maalka | CONSTANTLY UPDATED INSIGHTS

Building Level

1. Current Resource Consumption
2. Asset Tracking
3. Rollups and Reports
4. Engagement/Outreach
Maalka | CONSTANTLY UPDATED INSIGHTS

Building Level

1. Weather
2. Troubleshooting Data
3. Additional Applications
4. Trending Points
DC REDUCTION PROGRESS UPDATE

YEAR JOINED: 2012
BASELINE YEAR: 2012
TARGET YEAR FOR 20% REDUCTION: 2017
PROPERTY TYPE: Other

PROGRESS TO-DATE:
23% ON TRACK

4 DC Village has reduced its Weather Normalized Source EUI by 23% from your 2012 baseline year through 2015. Your building has committed to 20% energy efficiency improvement by 2017. For more information, visit www.dc.com

COMPARISON CHART
HOW YOUR BUILDING COMPARES TO OTHER DC REDUCTION PARTICIPANTS
YOUR DC REDUCTION PROGRESS
AVERAGE PROGRESS FOR OTHER "OTHER" PARTICIPANTS
AVERAGE PROGRESS FOR ALL PARTICIPANTS THAT JOINED IN 2012

Together, Better Building Challenge participants have reduced weather-normalized energy use by nearly 12%, representing savings of more than $56M per year and greenhouse gas emission reductions equivalent to removing more than 14,000 vehicles from the road.

ENERGY EFFICIENCY PROGRESS

This chart shows your energy efficiency progress to-date, based on Weather Normalized Source EUI. In order to reach your 20% DC Reduction commitment by 2017, your building must reduce energy use intensity by a simple
Maalka | REPORTING AND ENGAGEMENT

1. Are we on track to reach program goals?
2. How did our buildings perform last month?
3. How did our facilities managers perform?
4. What Next Steps and Issues?

Daily/Monthly/Annual Reporting to Program Boards!
Maalka has varying levels of data separation and security.

For typical use-cases, private portfolios can lie on the same maalka instance – separated but accessible depending on permissions.

- Each member has a separate, secure portfolio
- On-platform comparisons between members
- Analytics of similar building across members
- Outreach and analytics for all cities

For mission critical cases, portfolio can lie on a private maalka instance.

- Comparisons can only be made with private access through the API for each instance
Maalka | SUPPORTED INITIATIVES

Better Buildings Challenge
U.S. Department of Energy

Community Building Renewal

City Energy
A Joint Project of NRDC + IMT

CITY ENERGY

2030 District

Retrofit Chicago
Saving Green by Going Green

Sustainable Chicago

Global City Teams Challenge

Build Smart DC

Prop 39
“Maalka is directly supporting Retrofit Chicago Energy Challenge’s efforts to track, quantify, visualize, and communicate participants’ efforts to improve energy performance by at least 20% within five years. Maalka’s team quickly grasped the analytical needs and opportunities facing our program, and we’ve been impressed by Maalka’s collaborative and effective approach to platform design and rapid iteration to help buildings save energy and reduce operating costs.” Jamie Ponce, Chicago City Director, C40 Cities Climate Leadership Group

“Maalka's platform allows us to not only maintain our Portfolio Manager/Energy Star data, but, more importantly, focus on continuous improvement and evaluate why our energy has changed and what we’re going to do about it.

Their platform presents an opportunity to streamline our workflow by combining simplified data reporting with more sophisticated data visualizations for analysis and management reporting as well as some basic project management tools for our facility team. We've found the platform easy to use and look forward to continue exploring new integrations and tools that simply were not available to us before at a reasonable time and price level.” Jason Page, Director, Alliance for Sustainable Colorado
The Volttron Dashboard

Thank You!

https://volttron.maalka.com

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