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Major Accomplishments of 2016

Completed a mid-point review of the groundbreaking Energy Action Plan.

- 12.2% reduction in building energy use since 2010
- 250,000sf of 300,000sf solar panels installed
- New buildings performing between 11-30% better than code

Launched the Waste Reduction Action Plan, a major community planning effort to establish our 2035 goal to become a zero waste community.

Established Livable Lloyd as way to engage residents of the neighborhood.

Completed the first project in the LED Advantage Member Program!

Sponsored the first “Lights Out Lloyd” event with Portland Audubon Society to promote awareness of bird safety during seasonal migration patterns.

Achieved 100% compliance with City of Portland’s Commercial Building energy tracking requirements for building over 50,000 square feet, 87% for building over 20,000 square feet.

Installed our first pollinator planters in the nation’s first Pollinator Bikeway Corridor.

Expanded our partnerships with City Repair, Portland Audubon Society, and Lloyd District Community Association.

Piloted a program to provide Electric Bikes as travel option to build a healthier, less stressed, less congested neighborhood.

Secured $150,000 to be able to continue our energy efficiency and waste reduction work for 3 years.
ACCOMPLISHMENTS AT A GLANCE

UTILITY BENCHMARKING

ENERGY USE REDUCTION

Since 2010, 12.2% reduction in the original 16 buildings.

That’s 38,818 metric tons of CO2 = Planting 220 trees!

Power 1,160 homes for a year
SPECIAL THANKS!

In addition to all the individuals, firms, institutions, and organizations who collaborate with us to do what we do, there are always those who really go the extra step to help our programs succeed. We would like to express our deep gratitude to these partners with whom we worked in 2016.

**PLACE**

**ARCHITECTURE...**
for jumping right in and helping us design and execute an interactive Plaza repair project with local elementary school kids and mall shoppers, making Earth Day a little prettier and a lot more festive!

**METRO....**
for the multiple ways Metro supports the work we do through committed funds, generous staff support, and use of facilities for meeting small and large.

**GENZE...**
for their eagerness to work with us to develop an innovative electric bike fleet program which gives residents and employees a new option to get in and out of the district with minimum hassle and maximum fun.

**CITY REPAIR...**
for their commitment to work with us to develop programs and ideas which speak to a wider audience.

**LLOYD CENTER...**
our generous and patient landlords who have given us a place to work and grow

**GREEN BUILDING SERVICES...**
our dependable partners who have helped us produce and communicate our district energy savings accomplishments in our annual Energy Star™ Portfolio Manager report.

**PACIFICORP...**
for their unflagging generous board support
This is our favorite time of year—a time for reflection, and for holding hands to take a bow together. Five years ago the Lloyd District was looking for a way to distinguish itself within the city of Portland, and find a way out of a deep recession. We all took a chance on the idea of sustainability at a neighborhood scale. Today, Lloyd EcoDistrict has grown into an organization that is a leader in collaboration and triple bottom line projects — two of the hardest things to do in the realm of sustainability. We have accomplished so much in a very short amount of time and, of course, that is a testament to our stakeholders. Though Lloyd EcoDistrict is the catalyst for collaboration and we appreciate the value of our contribution — we exist to help amplify the good works of our community members, to tap into the possibility within all of us, whether as individuals or as companies all working together toward the common good. In 2017, working at the local neighborhood scale is as critically important as ever. Our communities are looking to smaller local organization to help solve problems of climate change, the negative effects of urbanization and disconnected cities. Lloyd EcoDistrict has been making a difference in our community from the beginning and will continue to do so with the determination of our staff, board of directors, and all our community partners.

Come join us and make a difference today!

Sarah Heinicke, Executive Director
THE LLOYD ECODISTRICT

PURPOSE

We bring together neighbors – residents, workers, business owners, and public agencies – united as equals in the pursuit of common goals: to reduce environmental impact and improve the strength of the Lloyd.

Our primary purpose is to develop, support, and accelerate neighborhood-wide sustainability goals to reduce energy use, conserve water, divert waste from the landfill, improve transportation options, and build a vibrant and equitable community. We accomplish this by educating, facilitating and empowering our stakeholders to take action in these areas. We also create innovative models of sustainability and share those models so other places too may benefit.

Lloyd EcoDistrict is governed by a volunteer Board of Directors that is comprised of leaders from businesses, institutions, and the local community.
OUR WORK

Though the number of residents in the Lloyd has nearly doubled since Lloyd EcoDistrict began its work, the Lloyd is still comprised mostly of businesses, with over 24,000 employees and about 2,100 residents. This means initiating activities and programs which can have meaningful impacts by engaging businesses while also delivering on positive environmental and social goals. As more people move into the neighborhood, the focus of our activities and messaging is also changing in order to engage the broader community in all our work.

Following is a recap of Lloyd EcoDistrict’s 2015-16 Primary Activities -

- COMMUNITY OUTREACH
- COLLECTIVE BENEFIT PROGRAMS
- PLANNING
- EDUCATION
- BENCHMARKING
COMMUNITY OUTREACH

LLOYD ECODISTRICT IS ABOUT PEOPLE.

Community outreach allows us to be an active and inclusive presence for all members of the Lloyd, to raise awareness of environmental issues and solutions, and to seek community buy-in for our activities. We aim to provide equitable access to tools, techniques, and resources for under-served and under-represented parts of our community. By serving the needs of this developing community, we find ways to beautify the neighborhood, provide social connection, and deliver on performance measures around transportation, energy efficiency, and waste management.

ECOFair

Our annual fair provides a platform for our partners in business, nonprofits, and government to highlight the ways individuals can have a real impact in the community. Workshops, information sharing, and activities for kids are the highlight of this popular event.

310 ATTENDEES  26 VENDORS

RAISED $9,040 IN DONATIONS & SPONSORSHIP

POLLINATOR BIKEWAY PILOT

The Pollinator Bikeway Pilot turns previously neglected street planters into bustling habitats for pollinator species through the use of native, drought-resistant perennials. By partnering with City Repair, Green Zebra, Hassalo on Eighth, and engaging volunteers a two-block section of this protected bikeway was transformed. We look forward to continuing the corridor along the entire length of NE Multnomah, to complete Portland’s first pollinator corridor, and the country’s first use of a pollinator corridor as a way of safely separating cyclists from traffic.
**Lights Out Lloyd**

Portland is a city within the Pacific Flyway, the migratory path millions of birds take every year. Audubon Society of Portland and Lloyd EcoDistrict joined forces to raise awareness about the Pacific Flyway and the impact of nighttime city lighting on migratory flights. The pilot started with fun, educational, community-building activities to get people thinking about these issues and the ways in which people and businesses can make a positive change. The ultimate goal is to find ways to enable businesses and residents to work together to create a safer environment for birds that migrate through the neighborhood.

In Lloyd, our partners were the Oregon Convention Center, Bonneville Power Administration, Metro Regional Center, East West College, Lloyd Center Tower, and the Lloyd 700 Building. Audubon reported that more than 2,500 residents and businesses joined in the campaign launch.

Our initial Lights Out Lloyd Campaign launched in the fall of 2016. Our neighborhood was part of a city-wide effort that included Fox Tower, the Wells Fargo Tower, OMSI, the Bank of America financial Tower, 200 Market, the 911 Federal Building, and Montgomery Park.

**Liveable Lloyd**

For two years, Lloyd EcoDistrict has provided technical, administrative, and creative support to renters and homeowners in the district. Livable Lloyd is a space for neighbors to get to know each other, share resources, and work together to improve and strengthen the community.

"As a new resident of Portland, Livable Lloyd has provided me opportunities to get to know other residents of the neighborhood and learn of events happening in the community. It also allows all residents to be engaged in making decisions about the neighborhood’s future."

*Brian Wagner, new Lloyd resident*
COLLECTIVE BENEFIT PROGRAMS

Lloyd EcoDistrict brings people and business together to offer programs that unite the collective power of the community to increase access to technologies, tools, and services which accelerate progress toward energy efficiency, transportation, and waste reduction goals.

LED ADVANTAGE MEMBER PROGRAM (LAMP)

This triple bottom-line program delivers very low cost LED lighting to businesses and property owners in order to reduce energy use, maintenance, and operation costs. Our partnership with BOMA Oregon allows us to reach an even larger audience of property owners and managers. Our portion of the fee goes back into the program and BOMA’s portion is directly donated to a transitional housing provider in the Portland Metro area.

In 2016, our first four projects were installed through LAMP. A typical LED Retrofit project uses about 1000 lamps. Through this program, our participants have replaced about 4,200 lamps. These projects are estimated to result in saving 228,000 kWh, 312 metric tons of CO2, and $28,000 annually!

DID YOU KNOW?

We strongly prioritize environmental and health considerations in our programs. When the American Medical Association published findings on the possible detrimental effect of blue-tinged LED lighting on health we reviewed our LAMP program. We conducted additional research, consulted with health and lighting experts, and reviewed all of our lighting offerings to ensure our program was recommending responsible lighting choices with regards to the effect of lighting on health and the environment.
Electric bikes were offered at low prices to employees and residents of the Lloyd in order to address problems of traffic congestion, greenhouse gas emissions from car trips and circling for parking, the need for increased physical activity, and affordable transportation for all. The pilot helped employers consider how to offer e-bikes as a part of their vehicle fleet, by assisting with the price and check-out logistics. Workshops taught employees how to safely commute by bike in the city and how to dress for bike commuting in all types of weather, focusing on reducing the barriers to using e-bikes in place of cars.

**June 2016 E-Fleet Pilot Highlights**

Over 75% of participants do not normally use active forms of transportation to get to work. Electric bikes could have a big impact if even a portion of traditional commuters adopted this mode.

100% of those surveyed found the ride enjoyable.

“We were able to design our own scheduling system. Once that was out of the way [... ] the pilot ran itself.”

*Cory Breitbach, Bonneville Power Administration Transportation Office*
PLANNING ACTIVITIES

One of our key activities is engaging our stakeholders in strategic planning to ensure we are reaching goals in priority areas.

ENERGY ACTION PLAN HIGHLIGHTS

In early 2014, the Energy Action Plan put Lloyd EcoDistrict building owners on course to achieve the 2035 Energy Efficiency goal. That goal is to prevent any increase in total energy usage through 2035, despite the likelihood of the Lloyd tripling its square footage in this time frame. In 2016, the update set out to examine progress to date on the 15 actions from that plan. We were thrilled to discover that the district is meeting and in some cases exceeding its goals in all four focus areas: existing building energy efficiency, new building energy efficiency, renewable energy, and EcoDistrict catalyzers.

ONE GOAL

TWO YEARS LATER

FIVE ACTIONS COMPLETE

Lloyd EcoDistrict Energy Action Plan Update November 2016

We achieved 12.2% reduction in existing building energy use, doubling our 5-year goal. New buildings are performing between 11-30% better than code, based on market research.

Oregon Convention Center’s new solar array produces 1% of total renewable energy use district-wide, advancing the district towards a 5-year goal of 4% renewable energy production. This 250,000 square feet installation gets us close to our target of 300,000 square feet of on-site solar needed in the district.
Waste Reduction Action Plan

Lloyd EcoDistrict plans to recycle or compost 93% by 2035 and to cap the amount of waste we are generating to make sure it doesn’t exceed current levels. By preventing waste in the first place, environmental impacts of the things we use can be greatly reduced, especially greenhouse gas emissions from material processing and landfill. Together, a committed team of community stakeholders and technical advisors are crafting creative solutions to achieve these goals, ranging from improved recycling, purchasing policies, to programs which address wasted food.

The Waste Reduction Action Plan sets in motion the steps that Lloyd stakeholders will take to reach our 2035 goal. If achieved, Lloyd EcoDistrict’s waste reduction goals will save 5,811 tons/year from the landfill. 18,000 metric tons of CO2 – equivalent to planting 453 trees a year – will be saved just by recycling, and the system wide benefits of preventing waste through smarter consumption are much greater!
**EDUCATION**

We teach the Lloyd community – especially building management professionals, property owners, employees, and business owners – to use tools and techniques that reduce the environmental footprint of their activities. We also serve as a resource for students and other communities who would like to emulate our models and programs.

**LLOYD ECODISTRICT ENERGY EFFICIENCY WORKING GROUP (LE3)**

LE3 is the monthly stakeholder forum, which was created out of the Energy Action Plan process. Its purpose is to continue to raise awareness of energy efficiency opportunities in the Lloyd, track progress toward Energy Action Plan goals, and to educate an ever-widening group of stakeholders in this cause.

**LE3 - REAL CHANGE POWERED BY PEOPLE**
**ENERGY MANAGEMENT TRAINING PARTNERSHIPS**

**Energy Trust of Oregon**
Promoted and supported relevant ETO educational programs and services, such as the Strategic Energy Management Program, which helps engineers and managers gain the knowledge they need to manage building energy use more efficiently.

**Northwest Energy Education Institute**
Supported building operator certification training for Lloyd facilities professionals, a more intensive version of building energy management education.

**EDUCATIONAL OUTREACH**

**Sunnyside Elementary**
Partnered with Sunnyside Elementary on a number of community activities such as City Repair projects, educational programs around pollinators, urban migratory patterns for birds, urban planning, and community development principles.

Fifth grade Sunnyside students reimagined their neighborhood using Lloyd EcoDistrict as a model.
BENCHMARKING

Tracking and reporting progress for the district against our baseline performance verifies whether the district is on track to achieve its energy efficiency goals. We have already achieved our 2020 goal for energy use reduction!

ENERGY BASELINE AND TRACKING

From the original cohort of 16 buildings with available historical data, total energy use has decreased since 2010, a reduction of 12.2%. Energy use intensity (EUI) for this cohort of buildings has also decreased by 9.1 kBtu/SF. Lloyd EcoDistrict stakeholders are not only championing energy efficiency at their organizations and within the district, the district is also emerging as an energy efficiency leader for the City of Portland. Lloyd EcoDistrict achieved 13% better Energy Star™ Portfolio Manager scores than the overall city median score.

OUTCOMES:
District Median EUI
Reduced by 20% since 2011.
100% tracking and sharing of all buildings over 50,000 square feet, 87% of tracking and sharing of all buildings over 20,000 square feet.
The mission of the Lloyd EcoDistrict is to facilitate collaboration between its businesses, residents and public agencies to support prosperity, environmental quality, and social welfare. We set goals and implement initiatives to create a neighborhood where people, planet, and prosperity are equally considered. We create replicable models that improve resource efficiency and economic vitality. The Lloyd EcoDistrict prioritizes projects and programs that address transportation, water, energy, waste and education.