

## Energy-Efficient Buildings

Buildings are the largest consumers of electricity in the city and a major source of greenhouse-gas emissions. Smart, cost-effective retrofits will benefit our buildings for decades, create local green jobs, and lower energy bills. Energy-efficient buildings also reduce LA's contribution to global warming and create healthier, more comfortable spaces. Our city's mild climate enables us to be a national leader in reducing energy consumption and make our buildings more efficient. LA's vision is to significantly reduce energy consumption per square foot across all building types in the city.





## VISION

We save money and energy by increasing the efficiency of our buildings.

2017

60  
million  
square feet



By 2017 we will expand the Better Buildings Challenge (BBC) to over 60 million square feet, and avoid 1250 GWh of energy use due to efficiency programs

2035



REDUCE ENERGY USE

By 2035 we will reduce energy use per square foot – for all building types – by 30%

## DID YOU KNOW?

- Use of electricity in buildings is the second largest source of greenhouse emissions in Los Angeles.
- Implementing energy-efficiency measures is often the most cost-effective action property owners can take to reduce energy bills and GHG emissions.
- Most buildings in Los Angeles were built before state energy codes, and use much more energy than those built today



## Energy-Efficient Buildings



# LA's Leadership To Date

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- LA has led the U.S. with the nation's largest municipal green-building program (requiring LEED Silver or better), and has converted 160,000 streetlights to LED, the largest such retrofit in the world.
- LA has the greatest number of EPA-rated Energy Star certified buildings in the nation in six of the last seven years.
- The Los Angeles Department of Water and Power has the most aggressive energy-efficiency program of any California utility.

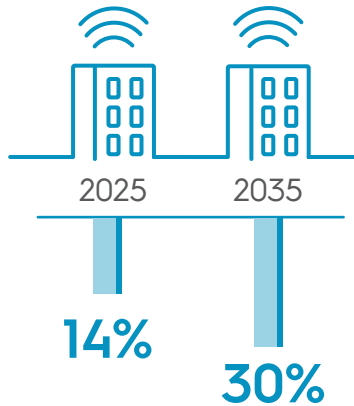


# Targets

## Long-Term Outcomes

### Energy Use:

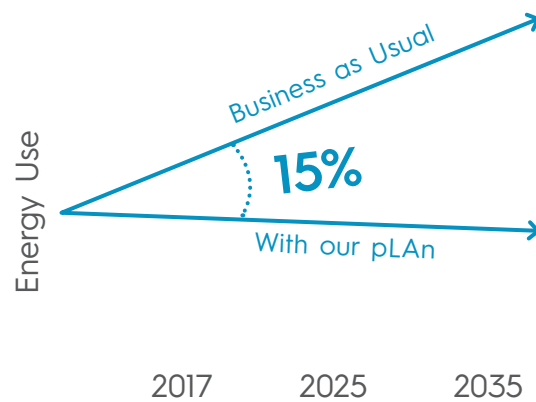
- Reduce energy use per square foot below 2013 baseline – for all building types – by at least:



Building Energy Use Intensity\* of 70 mBTU/sf in 2013  
 Source: Los Angeles Bureau of Sanitation Climate Inventory and LA County Tax Assessor Database  
 \*Energy Use Intensity, expresses building energy use per square foot

### Energy Efficiency:

- Use energy efficiency to deliver 15% of all of LA's projected electricity needs by 2020, including through rebates, incentives, and education:



Source: LADWP Energy Efficiency Potential Study. Post 2020 savings are indicative and subject to revision.

## 2017

### Near-Term Outcomes

- Avoid cumulative 1250 GWh of energy use between 2014 and 2017 due to efficiency programs
- 12,500 homes retrofitted with residential PACE financing
- Expand Los Angeles Better Buildings Challenge (LABBC) to 60 million square feet
- Create benchmarking policy to monitor and disclose building energy use
- Develop policy package (e.g., audits and retro-commissioning) to address energy consumption in the city's largest buildings (public and private)





# Strategies & Priority Initiatives



VISION

We save money and energy by increasing the efficiency of our buildings.

## Execute, expand, and continually refine DWP energy-efficiency programs

- Seek stakeholder input to ensure the most effective use of DWP energy-efficiency funding
- Ensure adequate funding levels for entire energy-efficiency program package through 2020.
- Expand commercial building demand response pilot to full program and increase participation
- Extend energy-efficiency goals and funding beyond 2020.

## Measure, track, and make available building energy data

- Create benchmarking policy to monitor and disclose building energy use
- Develop comprehensive building data system
- Develop policy package (e.g., audits and retro-commissioning) to address energy consumption in the city's largest buildings (public and private)
- Expand and improve access to financing for energy-efficiency (e.g., PACE programs, green bank, private-sector lending, etc.)
- Make workforce training investments to meet increased demand for building professionals
- Implement energy-efficiency retrofits across the City's affordable housing portfolio
- Increase awareness of existing residential- and small-business- retrofit incentives via education campaigns

## Measure, track, and make available building energy data (cont.d)

- Identify and communicate energy conservation potential for multifamily properties through City's Gateway to Green program

## Advance energy-efficiency and green-building programs

- Expand LA Better Buildings Challenge to new sectors, including the City's affordable housing stocks
- Increase participation in energy-efficiency and green business certification programs
- Assess options for private-sector green-building policy to incentivize or require LEED Silver or better new construction and major rehabilitation

## Prepare for energy code upgrades

- Pilot Net-Zero Energy municipal buildings (new or retrofit)
- Develop outreach and training on Title 24 compliance

## Lead by example through reduced energy consumption in municipal buildings

- Adopt municipal target for energy reduction in city buildings
- Increase municipal green-building standard for new construction
- Implement systems and gather data to understand City energy use at the actionable level

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ENVIRONMENT