



LAKE COUNTY  
Investing in People  
and Our Communities

# Net Zero Policy Update

Energy & Environment Committee  
September 2, 2020



# Five-Part Resolution

## 1. Emissions Reductions Targets

25% by 2030

90% by 2040 and 100% green power

## 2. 3rd Party Rating System for new construction

## 3. Waste Reduction Targets

60% Diversion by 2030

90% by 2040

## 4. Public Reporting

## 5. Invite & Encourage Others to Participate

# Net Zero Policy

## Cost Implication Research

- *Source: New Buildings Institute - Net Zero and Living Building Challenge Financial Study*
- Energy Efficiency
  - 1%-12% cost premium
  - 5%-12% savings
- Net Zero
  - 5%-19% cost premium
  - Up to 30% savings

# Net Zero Policy

## Cost Implication Case Studies

- 6 New St (Boston, MA)
  - 267,000 SF – Mixed Use Building
  - 24% energy savings
- ENR2 (Univ of Arizona)
  - 151,000 SF – Research/Admin Bldg.
  - 2% incremental cost | 30% ops savings

# Net Zero Policy

## Cost Comparison Challenges

- Lack of Comprehensive Data
- Policies Have Nuances – baseline, targets, etc.
- Every Area/Location is Different – climate, surroundings, etc.
- Every Building is Different – age, occupancy, condition, past practices, O&M, etc.

# Potential Next Steps

Approve the Policy

**Develop Energy Efficiency Plan**

**Develop Waste Reduction Plan**

Develop Reporting Plan

Develop Participation Plan

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# Discussion