

# Clean Energy Implementation Plan

Economic Development, Technology & City Light Committee

January 26, 2022



# Background and Current State

- Net-zero carbon neutral since 2005
- Energy supply mix: >90% carbon free for nearly two decades



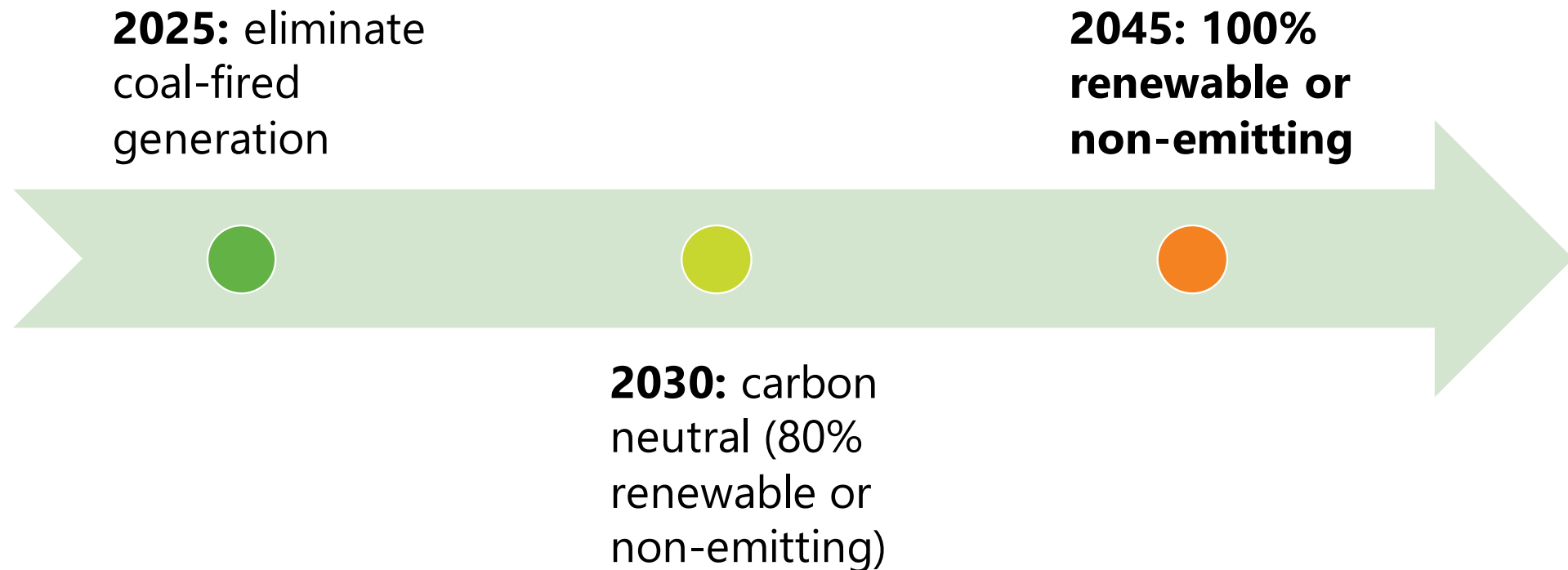
### 2019 POWER MIX

|                      |      |
|----------------------|------|
| ● HYDRO .....        | 84%  |
| ● UNSPECIFIED* ..... | 6%   |
| ● NUCLEAR** .....    | 5%   |
| ● WIND .....         | 4%   |
| ● BIOGAS.....        | 1%   |
| <hr/>                |      |
| TOTAL .....          | 100% |

# Clean Energy Transformation Act (CETA)

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- Legislature and Governor Jay Inslee enacted **CETA** in 2019 thus setting an aggressive timeline for 100% clean power in Washington State



# Other CETA Provisions

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- **Clean Energy Implementation Plan (CEIP): City Light requests City Council approval, and will every 4 years until 2045**



2022-2025 targets and actions towards 2045 goal (100% non-emitting or renewable)

- A CEIP Includes:



Plan and metrics for equitable benefits



Public Participation

- ***Equitable*** distribution of energy and non-energy benefits as we transition to clean energy for all

# Actions to Achieve Timeline Goals

- Four-year targets for:

- Equity
- Renewable Resources

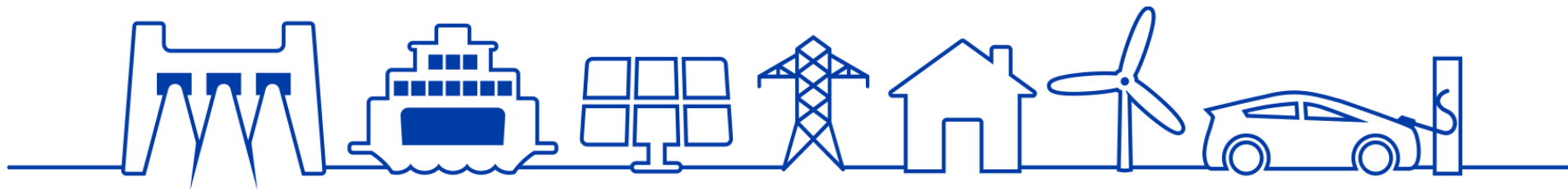
- SCL to invest in ~140 aMW 2026-2027

- Energy Efficiency
- Demand Response

- Actions to demonstrate progress towards meeting 2030 and 2045 goals

**Interim target: Percentage of retail load to be served using renewable and nonemitting resources (WAC 194-40-200(2))**

| Resource    | 2022  | 2023  | 2024  | 2025  | 4-year Period |  |  |
|-------------|-------|-------|-------|-------|---------------|--|--|
| Renewable   | 92.2% | 92.3% | 92.5% | 92.5% | 92.3%         |  |  |
| Nonemitting | 4.7%  | 4.7%  | 4.7%  | 4.7%  | 4.7%          |  |  |
| Total       | 96.9% | 97.0% | 97.2% | 97.2% | 97.0%         |  |  |



# Equitable Transformation to a Clean Energy Future

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- SCL Values



**CUSTOMERS FIRST**



**EQUITABLE COMMUNITY CONNECTIONS**

- CETA: All customers benefit from clean energy transformation.

## CETA Definitions



### **Highly Impacted Communities:**

Communities designated by the Department of Health based on cumulative impact analyses or a community located in census tract fully or partially identified as being on "Indian country".



**Vulnerable Populations:** Communities that experience disproportionate cumulative risk from environmental burdens due to adverse socioeconomic factors and sensitivity factors.

# Public Input: Clean Energy Future Survey

- Targeted questions sent to 180,000 residential customers; overall responses - 4522
- Questions informed by CETA equity indicators

|                     | Total | BIPOC | Hispanic/Latino | Renters | Household income <\$50k |
|---------------------|-------|-------|-----------------|---------|-------------------------|
| Number of responses | 4522  | 633   | 175             | 1328    | 417                     |
| Confidence level    | 95%   | 95%   | 95%             | 95%     | 95%                     |
| Margin of error     | +/-1% | +/-4% | +/-7%           | +/-3%   | +/-5%                   |

# Public Input: Clean Energy Future Survey

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- 94% concerned about climate change
- 80% of customers not aware that City Light is carbon neutral or has a 90% clean energy portfolio

## Most Important Benefits

1. 100% clean energy economy and reducing climate change impacts
2. Decreased reliance on fossil fuels
3. Reduced environmental impacts

## Greatest Concerns

1. Bill increases
2. Negative impacts of clean energy technology
3. Risk to reliability.



# CEIP Consistent with City Goals and Plans

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- Consistent with:
  - Seattle City Light Strategic Plan
  - Race and Social Justice Initiative
  - Green New Deal
  - Climate Commitment Act
  - Greenhouse Gas Commitment Resolution
  - Mayoral Executive Orders
  - Environmental Equity Initiative
  - COP26



# Future Considerations

- Changes to greenhouse gas offset inventory and emissions
- New Bonneville Power Administration (BPA) Contract opportunity
- Resource Adequacy (reliability)
- Extreme weather events
- Regional Transmission Organization

## ENERGY RESOURCES

- Owned Hydro
- Treaty Rights From British Columbia
- Long-Term Hydro Contracts (CBH is the Columbia Basin Hydropower)
- Other Long-Term Contracts



# THANK YOU

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**Seattle City Light**