# Item 2025-0801: Energy Master Plan Adopt Metro's Energy Master Plan

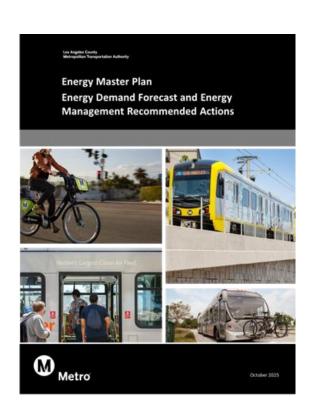
Executive Management Committee October 16, 2025



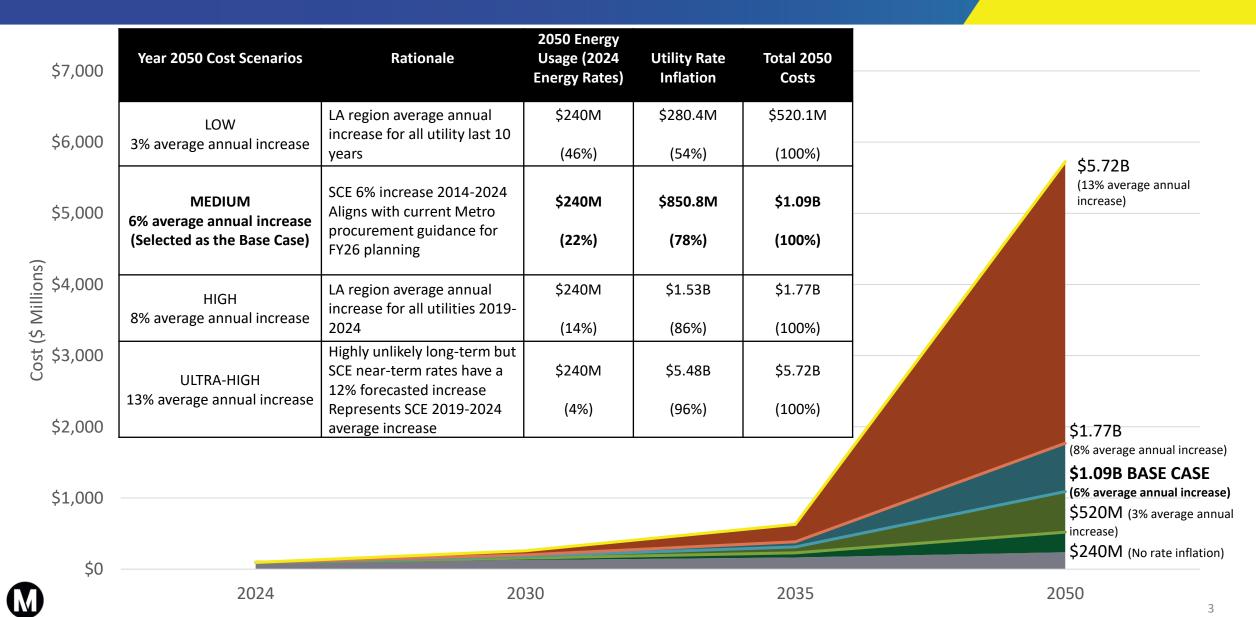
## **Key Findings**

#### Metro's energy profile will undergo a significant transformation over the next 25 years.

- > Electricity use is projected to increase 140% between now and 2050
- > Energy costs could escalate from \$95M/year (2024) to \$1BN (2050) due to higher consumption and continued rising energy prices
- > Resiliency pressures will intensify as electrification expands into areas with known grid supply constraints and also due to changing climate
- > Solar will continue to be a key technology to meet renewable energy goals, support resiliency and reduce energy costs
- > Limited deployment of energy management and building automation currently reduces opportunities for energy cost savings
- > Electrification and resiliency initiatives require new workforce training and education

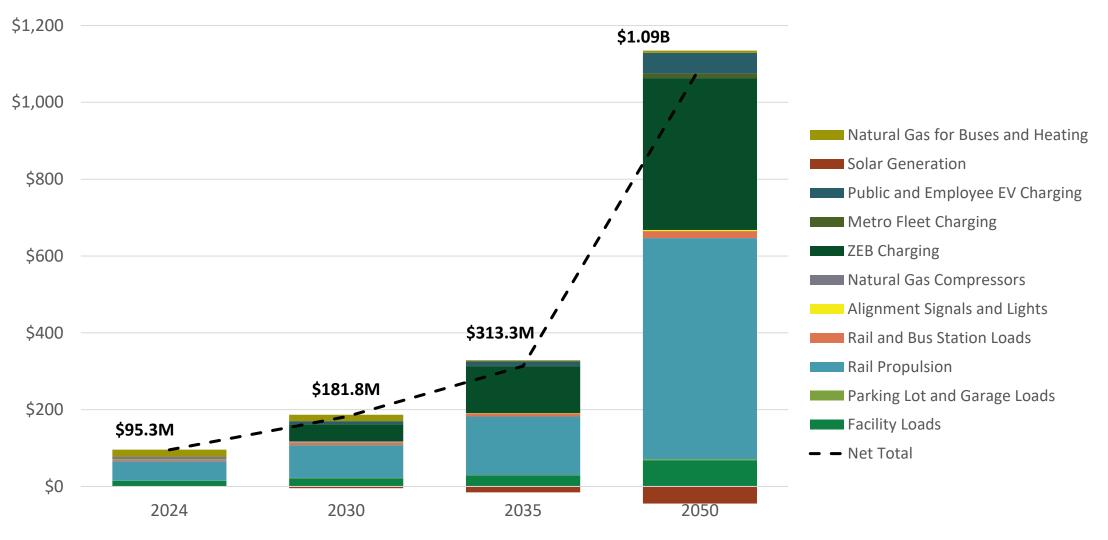


## **Projected Energy Costs: Impact of Rate Increases**



#### Base Case Forecast: Based on 6% annual rate inflation

#### **Total Projected Spend by End Use**



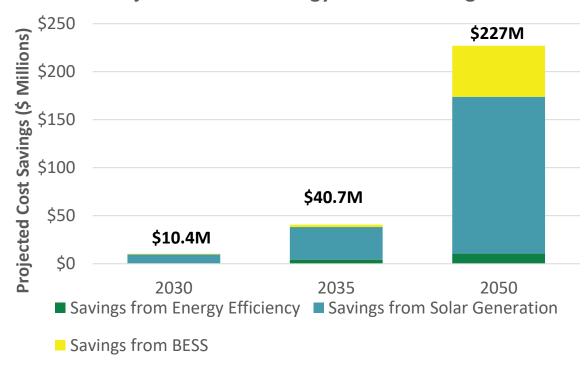


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## **Recommendations and Projected Energy Cost Savings**

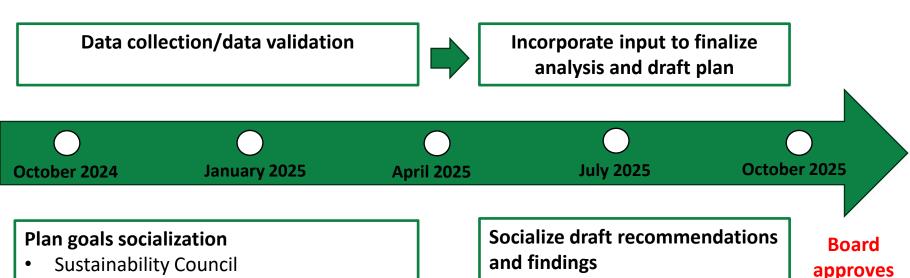
RECOMMENDATIONS	
Energy Planning	<ul> <li>Creation of energy management steering committee</li> <li>Data and information management requirements to support annual energy forecasting, energy security and energy project impacts.</li> </ul>
Energy Supply	<ul> <li>Increase cost-neutral utility supplied clean energy</li> <li>Accelerate on-site renewable energy supply and strengthen O&amp;M of existing systems.</li> <li>Prioritize utility engagement to increase "essential use" designation at critical sites; proactively address energy costs; secure support for mitigation.</li> </ul>
Energy Technology Deployment and Workforce Development	<ul> <li>Develop comprehensive, site-level energy management plan to holistically and cost-effectively address energy and resiliency needs.</li> <li>Expand energy education to support technical training for resiliency and energy management technologies.</li> <li>Webinars to socialize energy security and resiliency technologies.</li> </ul>
Stakeholder Engagement	<ul> <li>Increase community-based organizations' presence on sustainability council</li> <li>Leverage regional and community energy partners for joint funding and workforce development</li> <li>Communicate progress and benefits of energy planning</li> </ul>

#### **Projected Annual Energy Bill Cost Savings**





## **Development Process, Engagement & Path Forward**



#### **NEXT STEPS**

## **Comprehensive Implementation Plan**

- Define roles and responsibilities to ensure collaboration across Metro departments
- > Establish measurable deliverables
- > Conduct cost-benefit analysis to include resiliency considerations
- > Utility engagement

plan

#### **Annual Report Out to the Board**

 Provide updates on energy forecast updates and the costbenefit impact of implemented measures.

- Bus Ops
- Rail Ops
- Facilities Ops
- OER
- CBOs

- Office of the CEO
- Bus Ops
- Rail Ops
- Facilities Ops
- Procurement
- OER
- Planning
- Government Relations

