



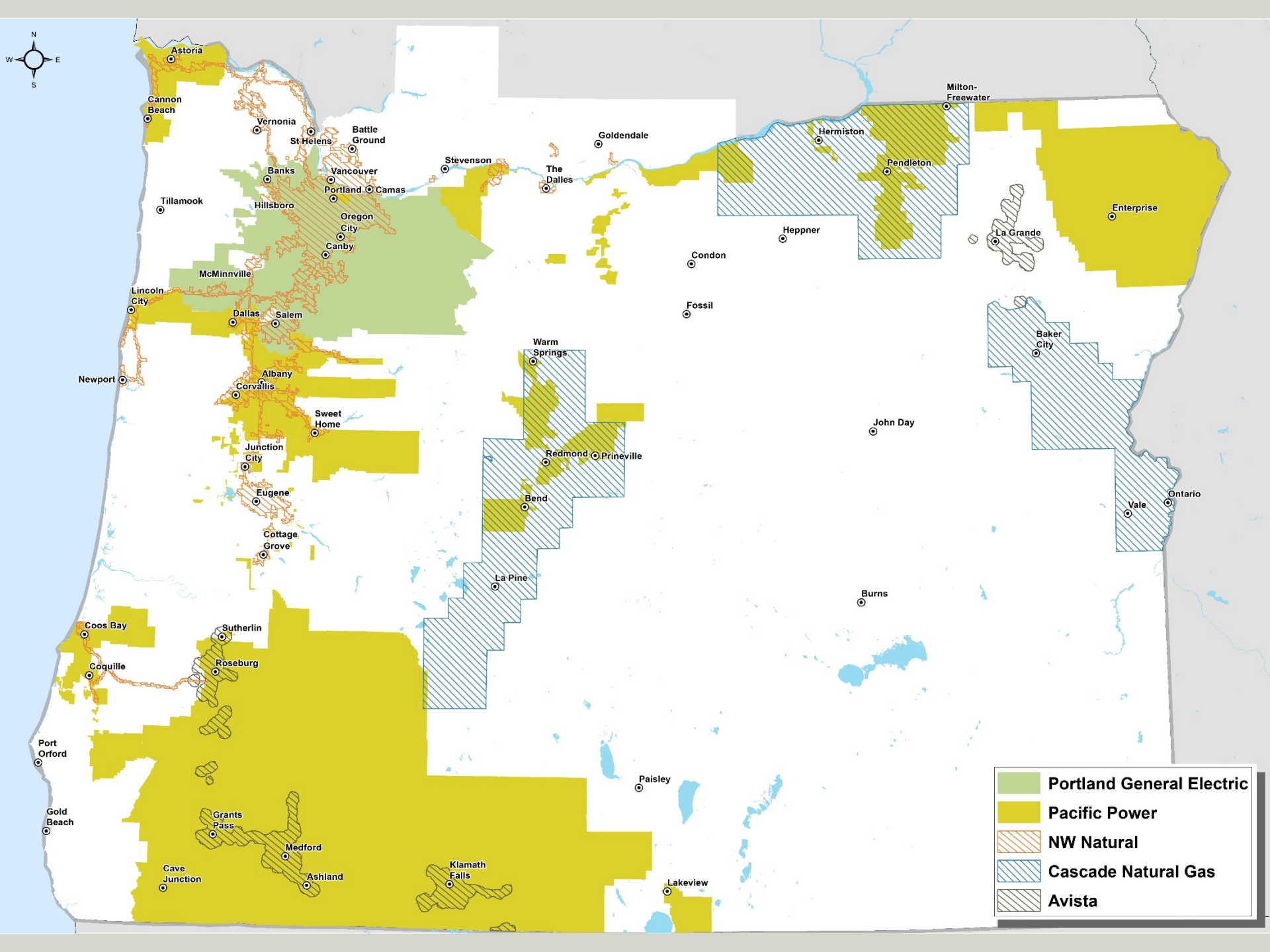
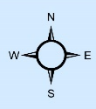
Energy Efficiency Opportunities in the Industrial Sector

10/25/2019



Who we serve

- Industrial + manufacturing facilities
- Agriculture, nurseries, dairies, irrigators
- Water + wastewater treatment facilities
- Limitations on services for large customers



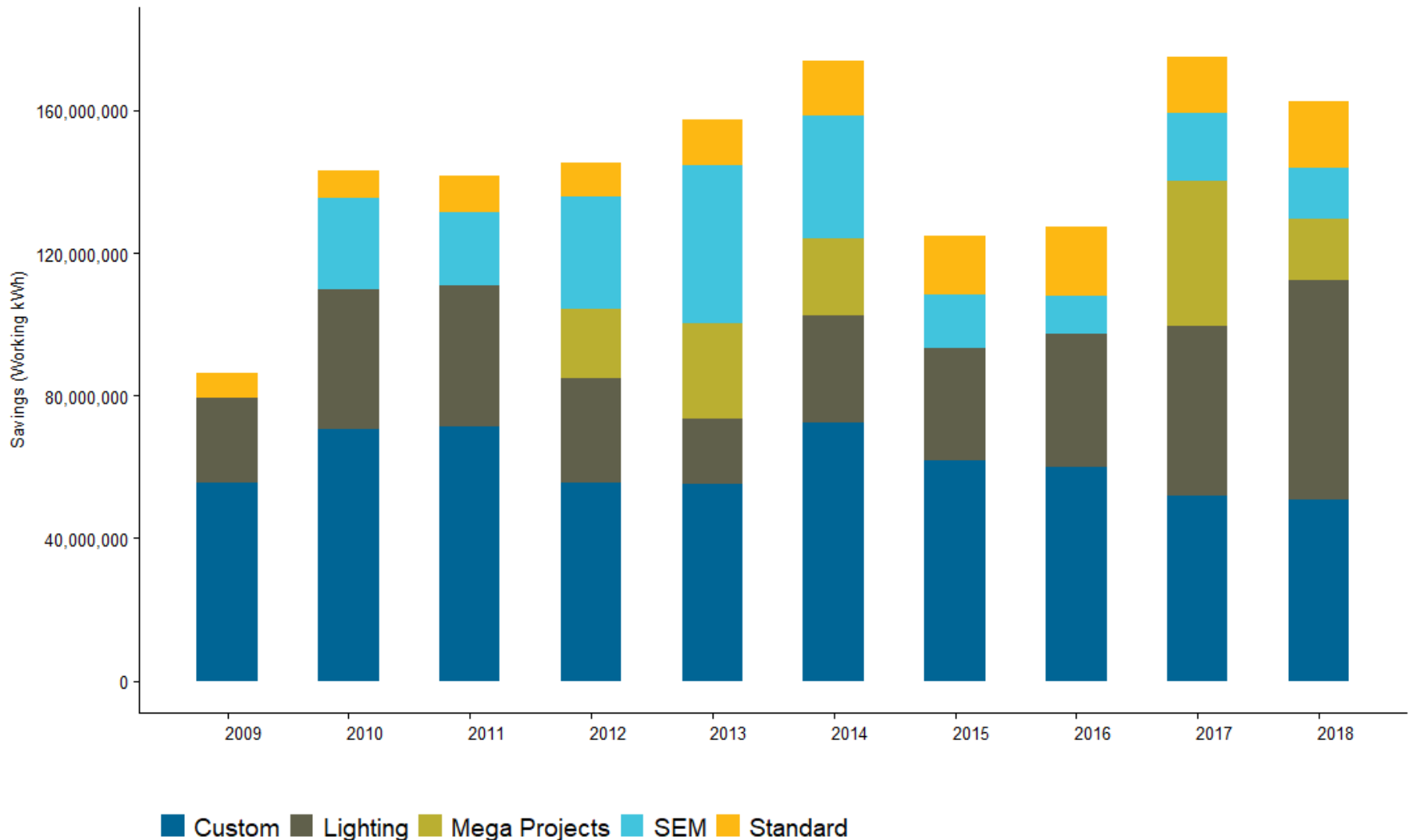
	Portland General Electric
	Pacific Power
	NW Natural
	Cascade Natural Gas
	Avista



Energy Trust Production Efficiency Program

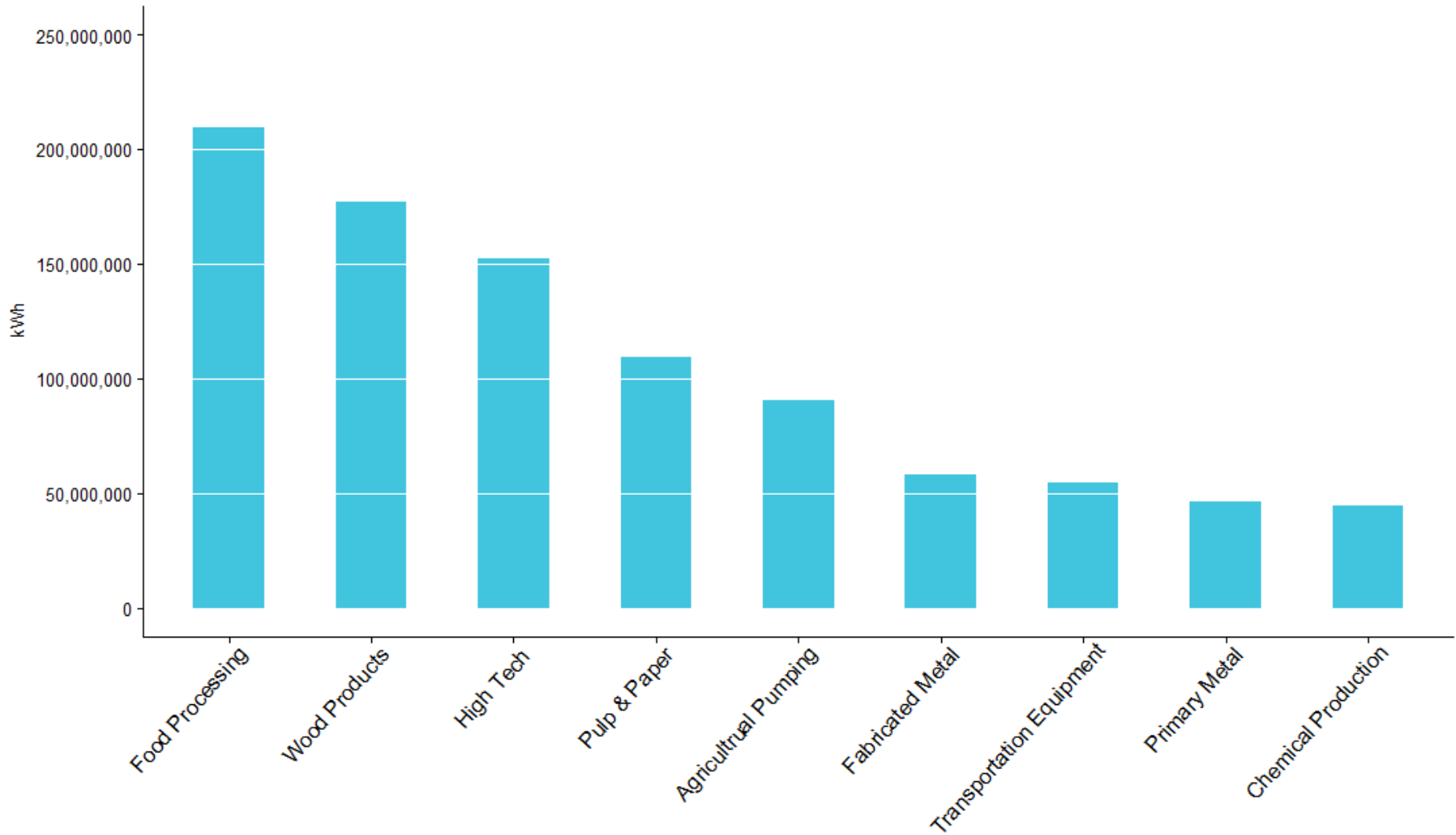
- Standard
- Lighting
- Custom Track
- Strategic Energy Management
- Megaprojects

Electric Savings by Program Track



Working savings
Chart shows 2009-2018 actuals.

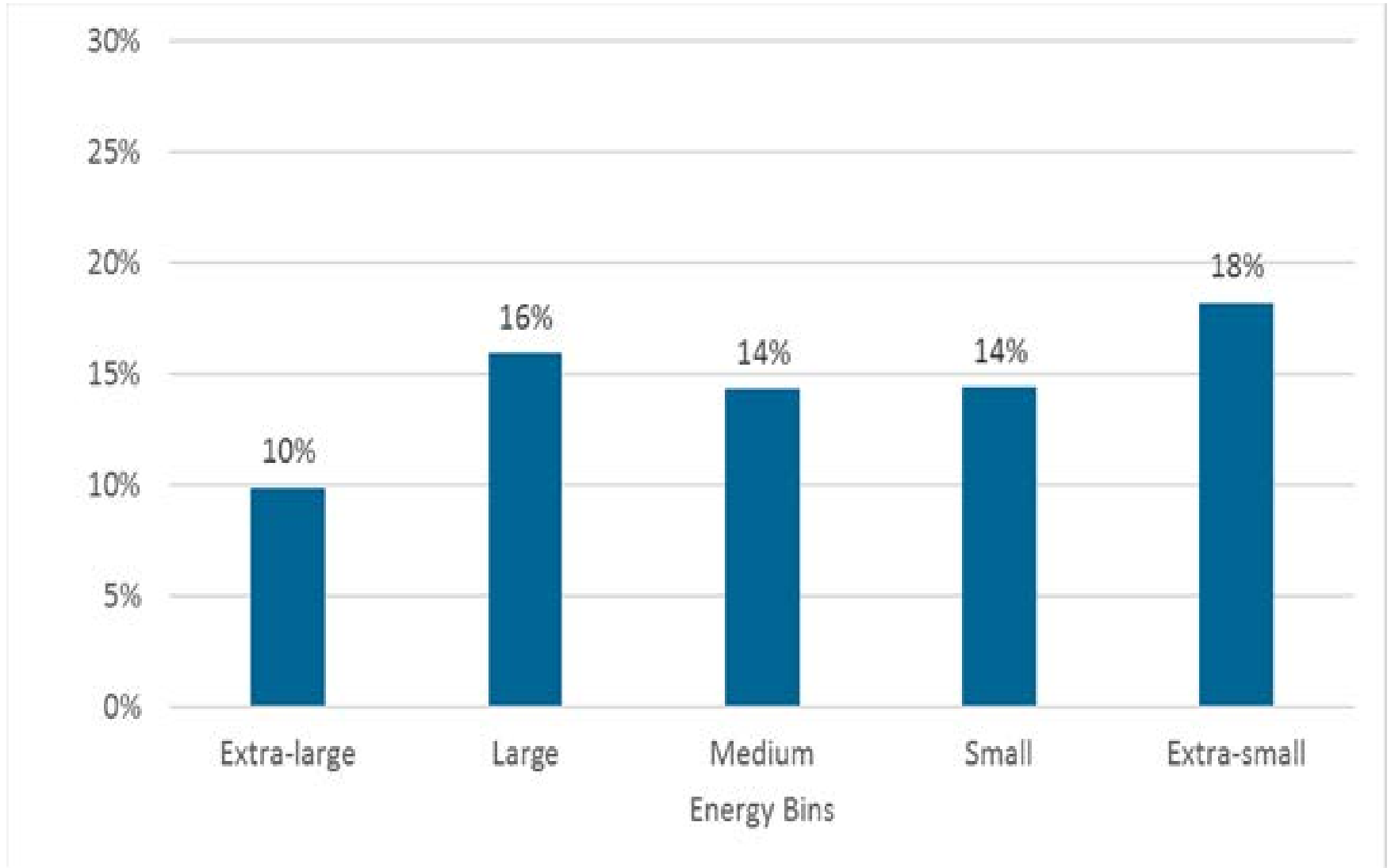
Electric Savings by Market Segment



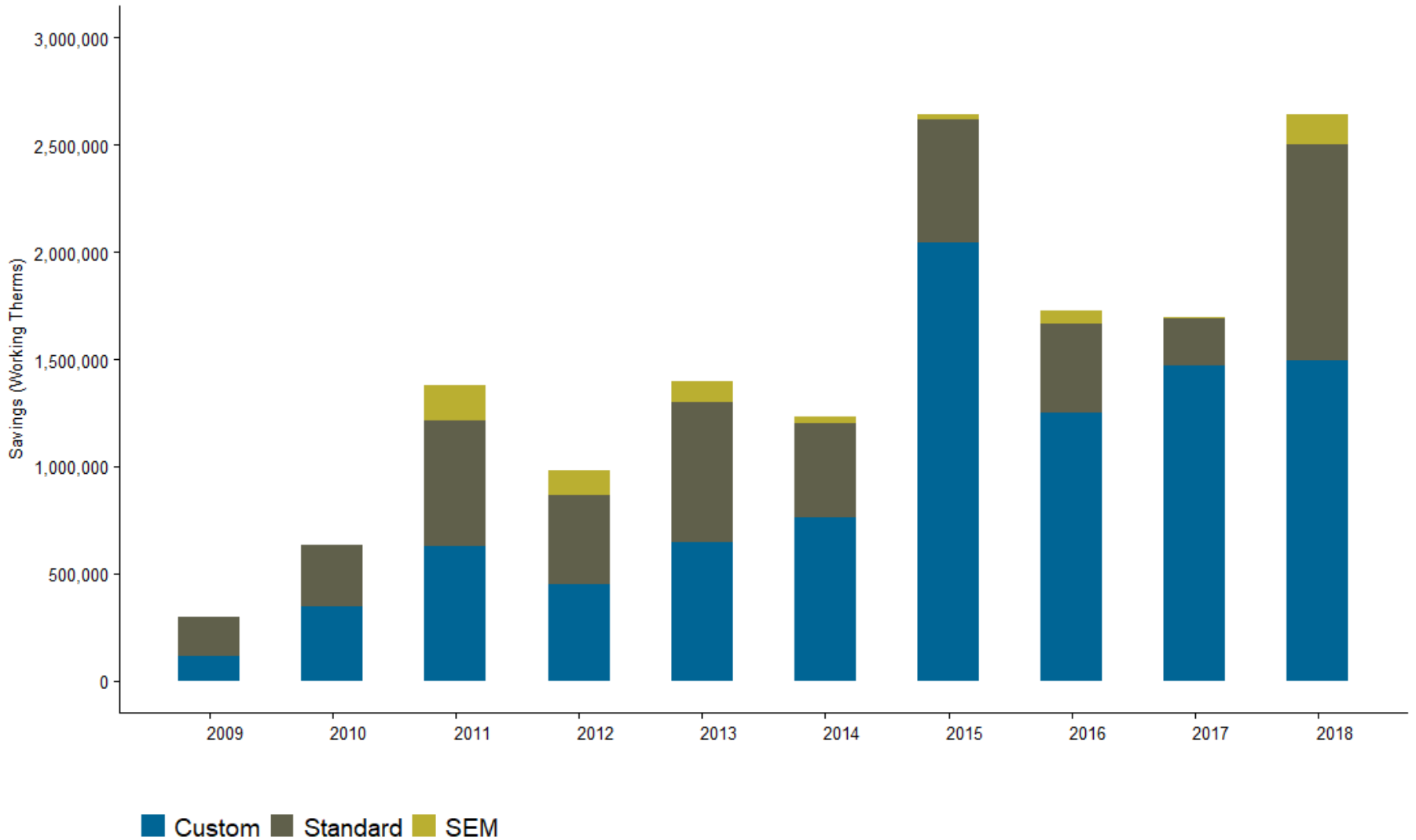
Working savings

Chart shows 2009-2018 actuals.

Average % of Total Site Electric Energy Saved



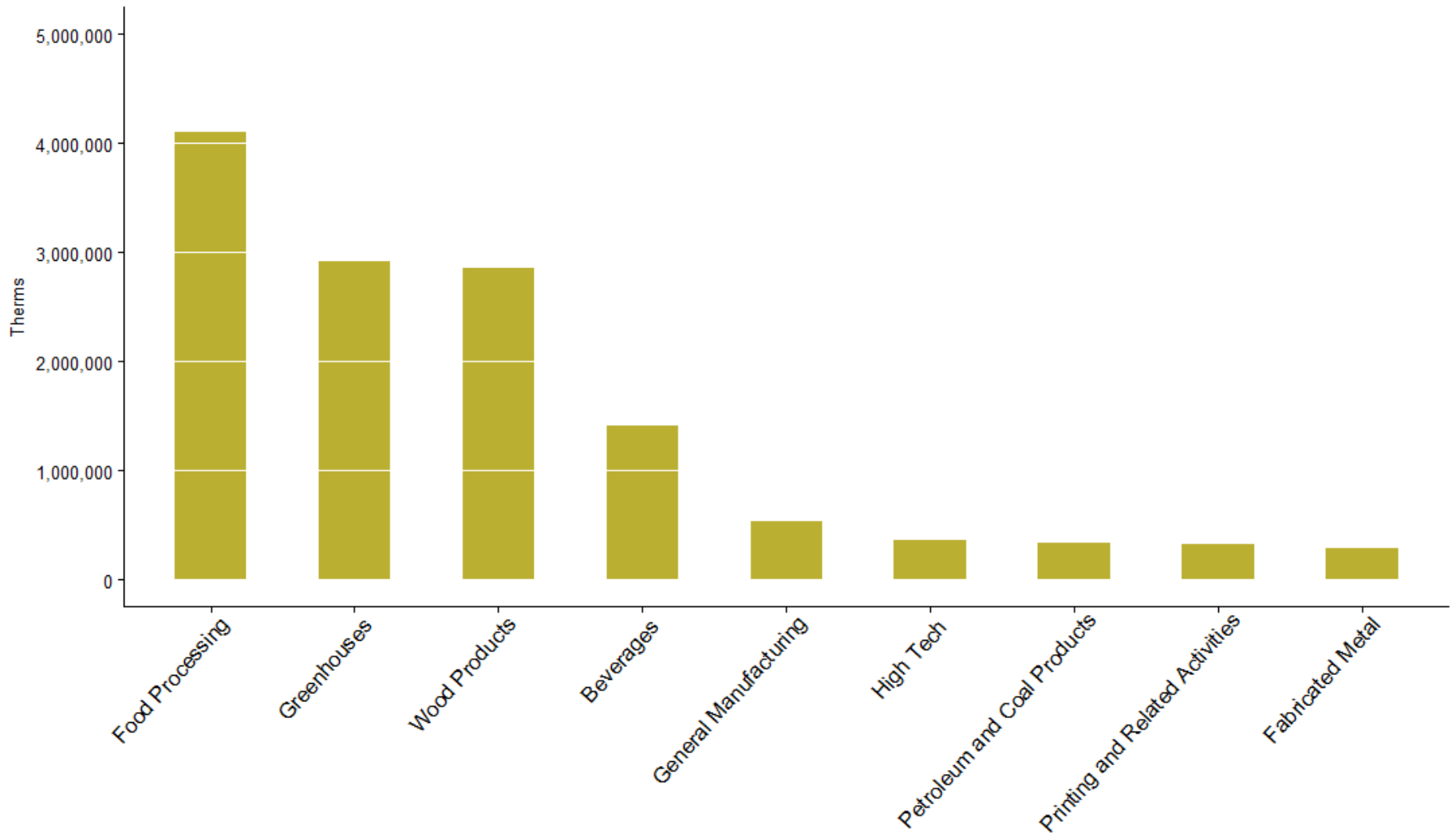
Gas Savings by Program Track



Working savings

Chart shows 2009-2018 actuals.

Gas Savings by Market Segment



Working savings

Chart shows 2009-2018 actuals.

Yoshida Foods

- Upgraded pasteurizer, compressed air, solar energy
- \$218,000 in Energy Trust incentives
- 187,000 therms and 232,000 kWh saved annually
- 2.4 million pounds avoided CO₂

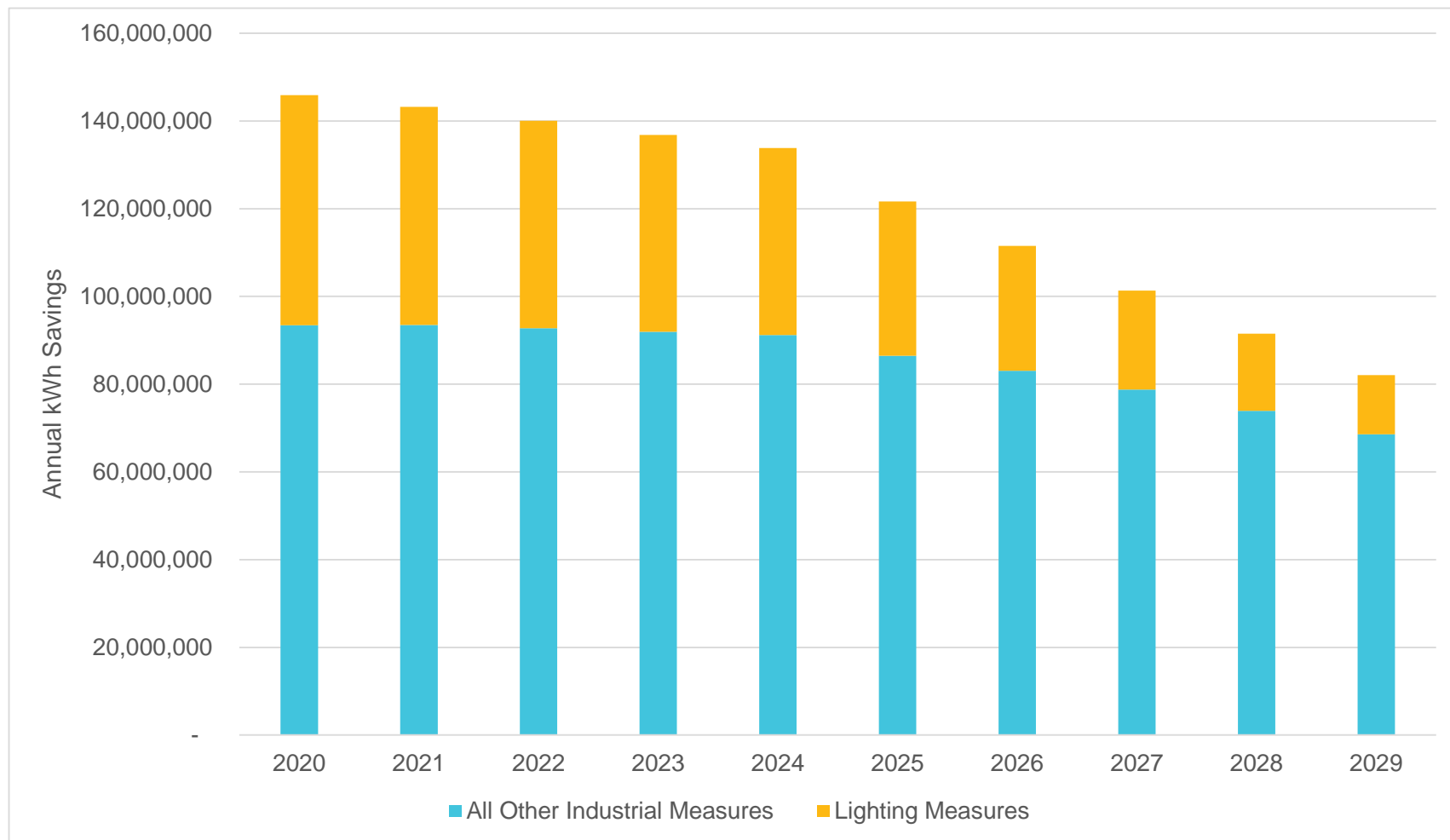


“Energy Trust keeps us aware of available offerings. We appreciate their streamlined approach in helping us get projects online fast.”

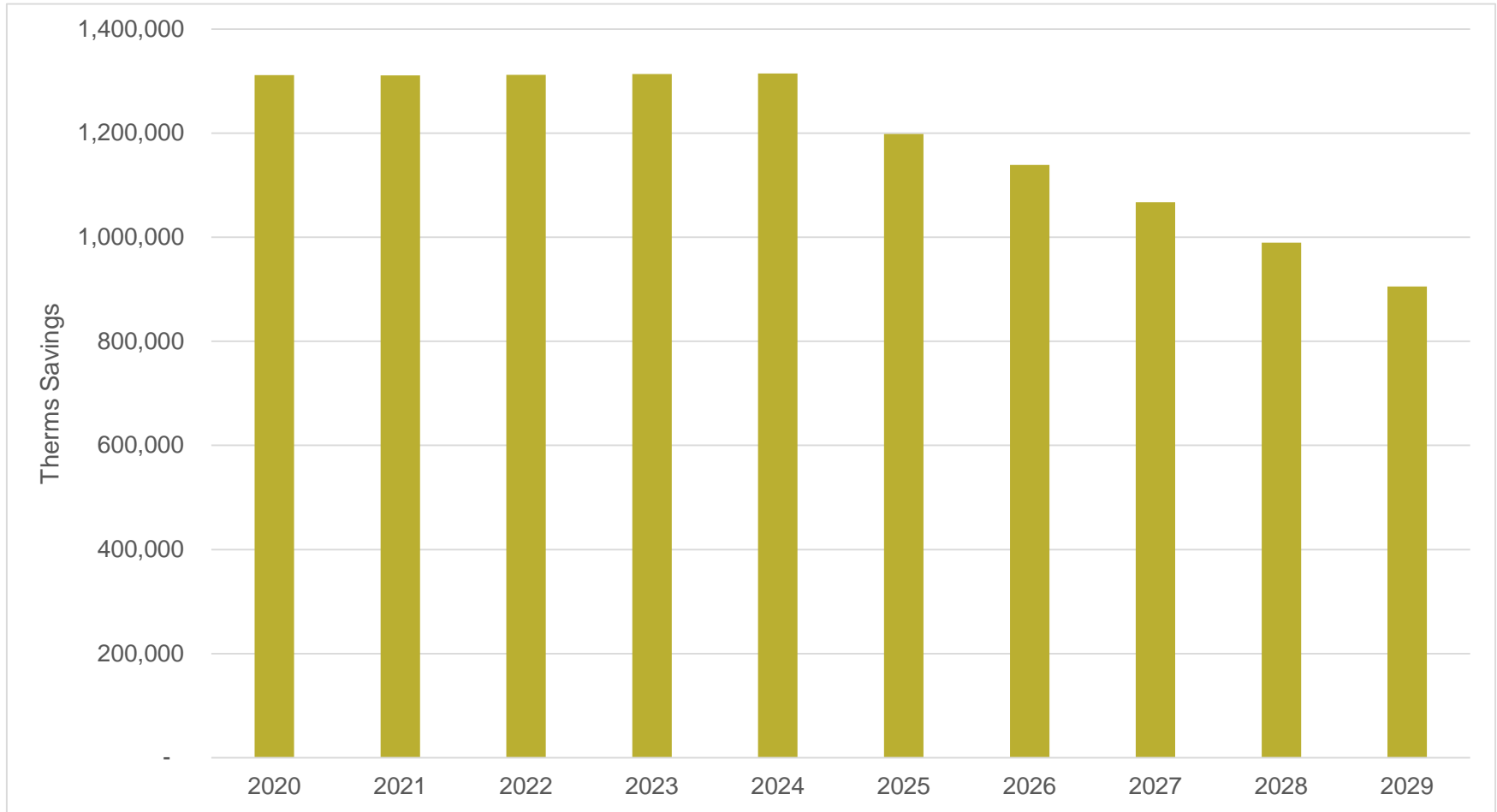
Frank Heushkal, President



10 Year Annual Electric Savings Projections (kWh)



10 Year Annual Natural Gas Savings Projections (Therms)





Trends

- Strong savings still exist with our large customers
- Strong program participation with wood products, food processors and high tech customers continues
- Savings potential from compressed air, motors HVAC and primary process remains strong
- Savings from new opportunities come on line as measures phase out

Policy Constraints

- Very large customers (over 1 aMW)
- Gas transport customers
- Utility system benefits only, limited carbon reduction benefits





Thank you

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