

A photograph of a waterfront city scene, likely Tacoma, Washington. In the foreground, a wooden pier with several white mooring posts extends into the water. A white motorboat is docked at the pier. In the background, a variety of city buildings are visible, including a prominent white, cone-shaped building on the left and several multi-story apartment or office buildings in the center and right. The sky is a clear, pale blue.

Serving our customers

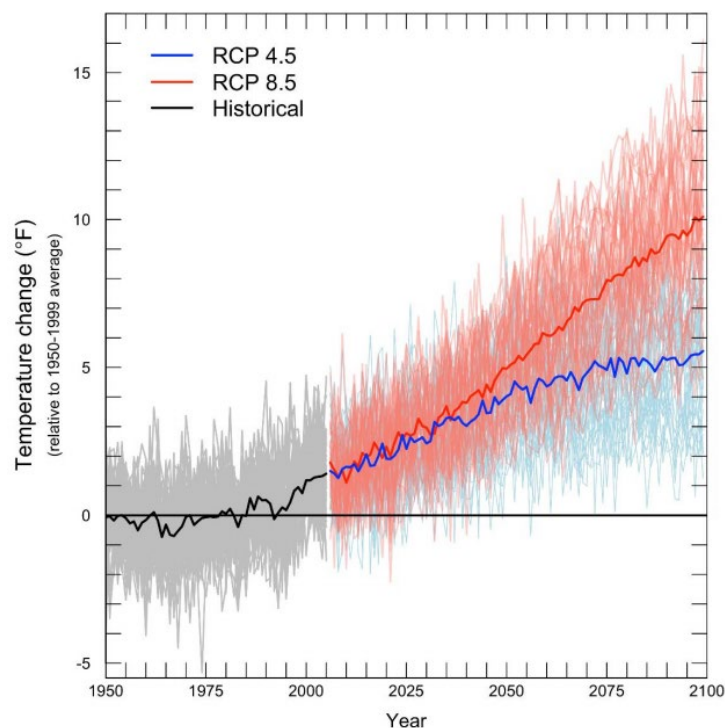
Shade Tree Coupon Pilot

- Energy Research and Development
- Supporting “Community Value First”
- Encourages the planting of trees to provide energy savings, and environmental and community benefits.

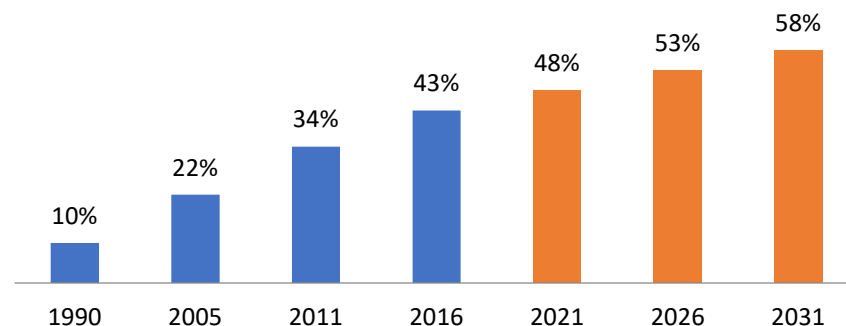


How do trees save energy?

- Delay the penetration of AC units
- Increase the efficiency of AC units that are installed
- Reduce summer energy use



Percent of Tacoma Power Customers with AC



Shade Tree Benefits

- Improve air quality
- Increase wildlife habitat
- Reduce traffic noise
- Mitigate storm water
- Reduce heat island effect
- Reduce energy use in summer months
- Least cost method for getting trees planted
- Helps the City of Tacoma meet EAP goal to increase tree canopy



Cooperation with Partners

- Consulted with experienced community partners
- Merged with City of Tacoma Tree Coupon program to reduce costs and expand marketing and outreach efforts
- Careful not to supplant or disrupt other tree programs
- Added outreach materials to encourage careful planting practices, avoiding utility pipes and wires
- Increased the participation by local nurseries in the program



Trees: Number of trees planted: 2,817

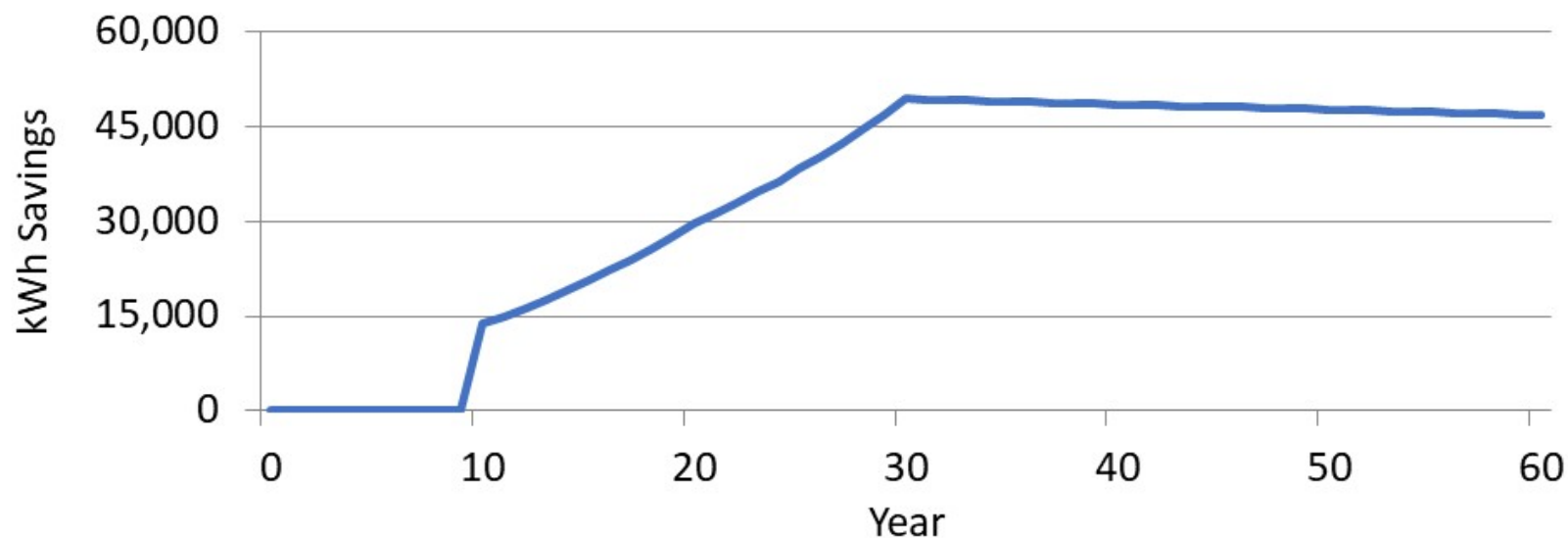
Savings: Total lifetime savings of 1,966 MWh

Cost: Estimated levelized cost of: \$26.55

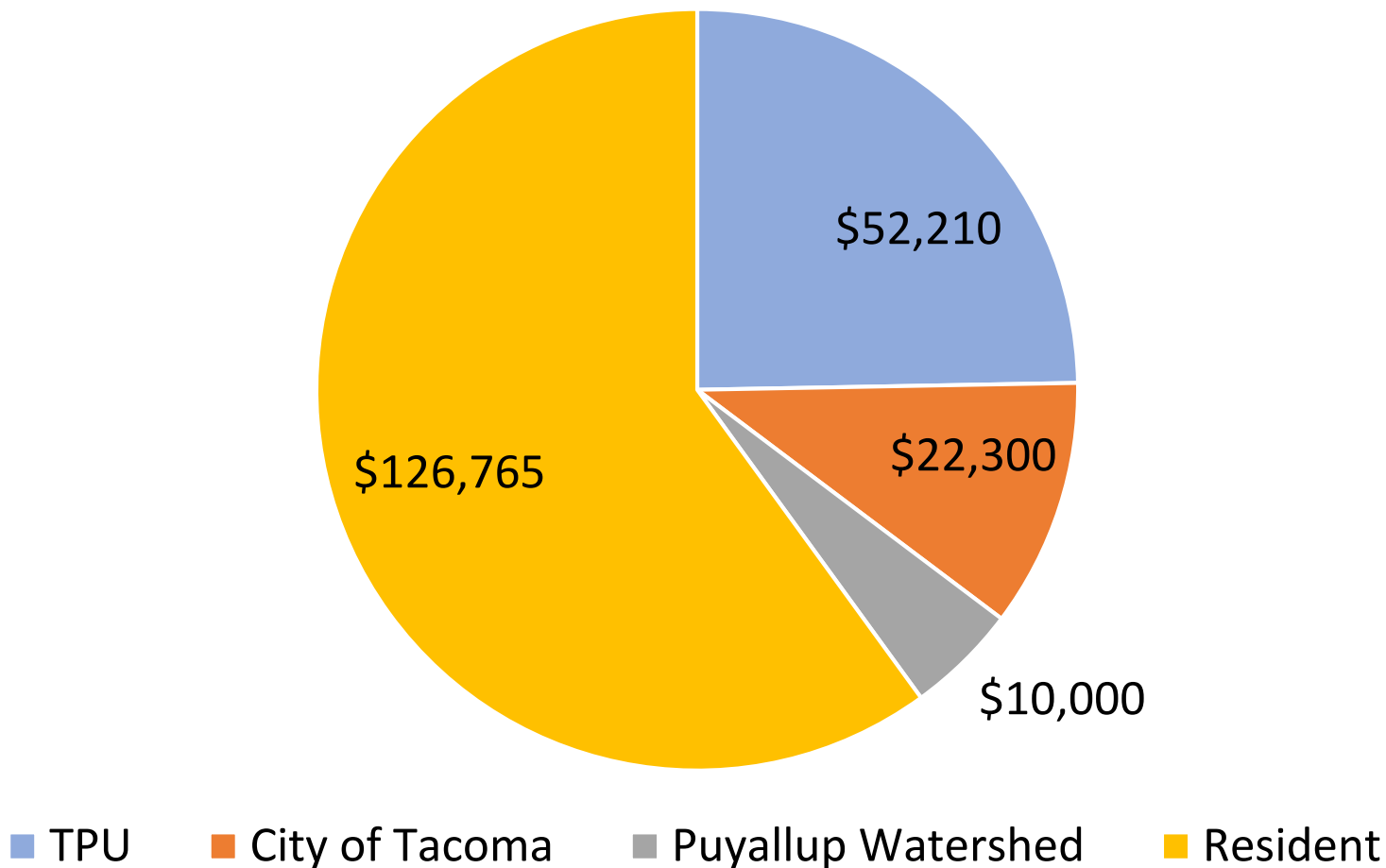
Est. lifetime CO2 reduction: 5,236 tons

Pilot: Learning how best to deliver this type of program

Annual Wholesale Savings



Shade Tree Pilot Funding



Underserved communities

- In Fall 2019, TPU will launch a Shade Tree Program focused in the Hilltop neighborhood to provide trees at no cost
- Partnering with the Tacoma Tree Foundation who will provide resident outreach and coordinate volunteers to assist with planting





Questions?