

ANNUAL BENEFITS OF TROPICAL URBAN TREES

When added together, the impact of trees on the overall economy and society is tremendous. Investing in trees is a low-cost alternative to mitigating many problems through other means. In fact, many of these benefits are impossible to achieve otherwise.

Trees Benefit Society

- ☞ Reduce stress and improve overall well-being.
- ☞ Improve learning & concentration in schools (particularly attention deficit & self discipline).
- ☞ Lead to Reduced Crime.
- ☞ Lead to improved health & faster hospital recovery

Trees Improve Watersheds and Protect Coral Reefs

- ☞ Intercept rainfall and slow down runoff.
- ☞ Increase the infiltration capacity of soil.
- ☞ Improve water quality and coral reef health by removing pollutants and reducing soil erosion, which causes harmful sedimentation.

Trees Save Energy

- ☞ Reduce ambient temperatures.
- ☞ Transpiration uses solar energy that would otherwise heat the air.

*Based on 2013 HECO Rates

Trees Improve Air Quality

- ☞ Absorb gaseous pollutants (via leaves).
- ☞ Intercept particulates (dust, smoke, dirt).
- ☞ Release O₂ (photosynthesis)
- ☞ Reduce ozone levels (through transpiration).

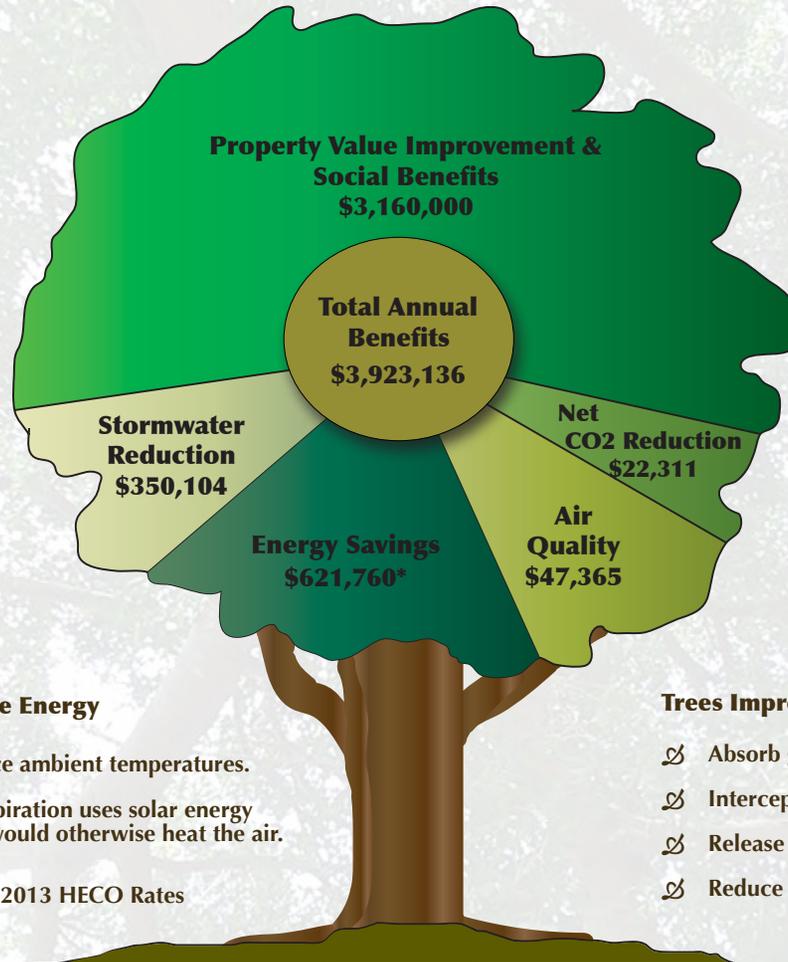
Property Value Improvements

- ☞ People show a willingness to pay more (up to 6%) for trees on the property.
- ☞ People show a preference for retail locations with trees and will spend more time and money (9-12% more) while shopping there.

Trees Reduce Atmospheric CO2

- ☞ Reduce the need for air conditioning.
- ☞ Sequester and store CO2 in woody biomass and leaves thereby removing it from the atmosphere.

Trees Make Communities More Livable



Designed by Jolie Wanger, Earthwise Consulting for



SMART TREES
PACIFIC
www.smarttreespacific.org

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