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Caribbean Alliance for Sustainable Tourism
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EARTHSMART

living the good life!

Water Conservation

Sustainability Webinar Series

19th April, 2017

SPONSORS & SPEAKERS






George Newton, founder and manager of Earth Smart is a career entrepreneur with keen interests in the environment. George spent some of his earlier years as the president of a non-profit dive club which assisted and organized cleanup operations beneath the waters surrounding Barbados. He is currently an advocate for sustainability predominantly in the area of water use efficiency.



Earth Smart is distributor of eco-friendly, water efficient technology products. These products enhance the quality of life of the company's customers while maintaining harmony with the environment. Earth Smart is especially dedicated to reducing the level of water consumption by increasing the efficiency of water use. The company's main goal is to support Caribbean societies in an effort to develop behavioral change in improving water efficiency.

LEARNING OBJECTIVES



-  To bring about an awareness for water conservation
-  Aid hoteliers in achieving maximum profitability
-  Manage costs associated with water supply



OVERVIEW



- 💧 Getting Started - Measuring Water Use
- 💧 Conserving Water in Guest Rooms
- 💧 Water Efficiency in Common Area Restrooms
- 💧 Conserving Water when Landscaping
- 💧 Water Efficiency in the Laundry
- 💧 Water Efficiency in the Kitchen
- 💧 Water Efficiency in the Unseen Ice Machine



GETTING STARTED - MEASURE WATER USE



- 💧 Understand how much water your hotel is consuming
- 💧 Schedule a water audit

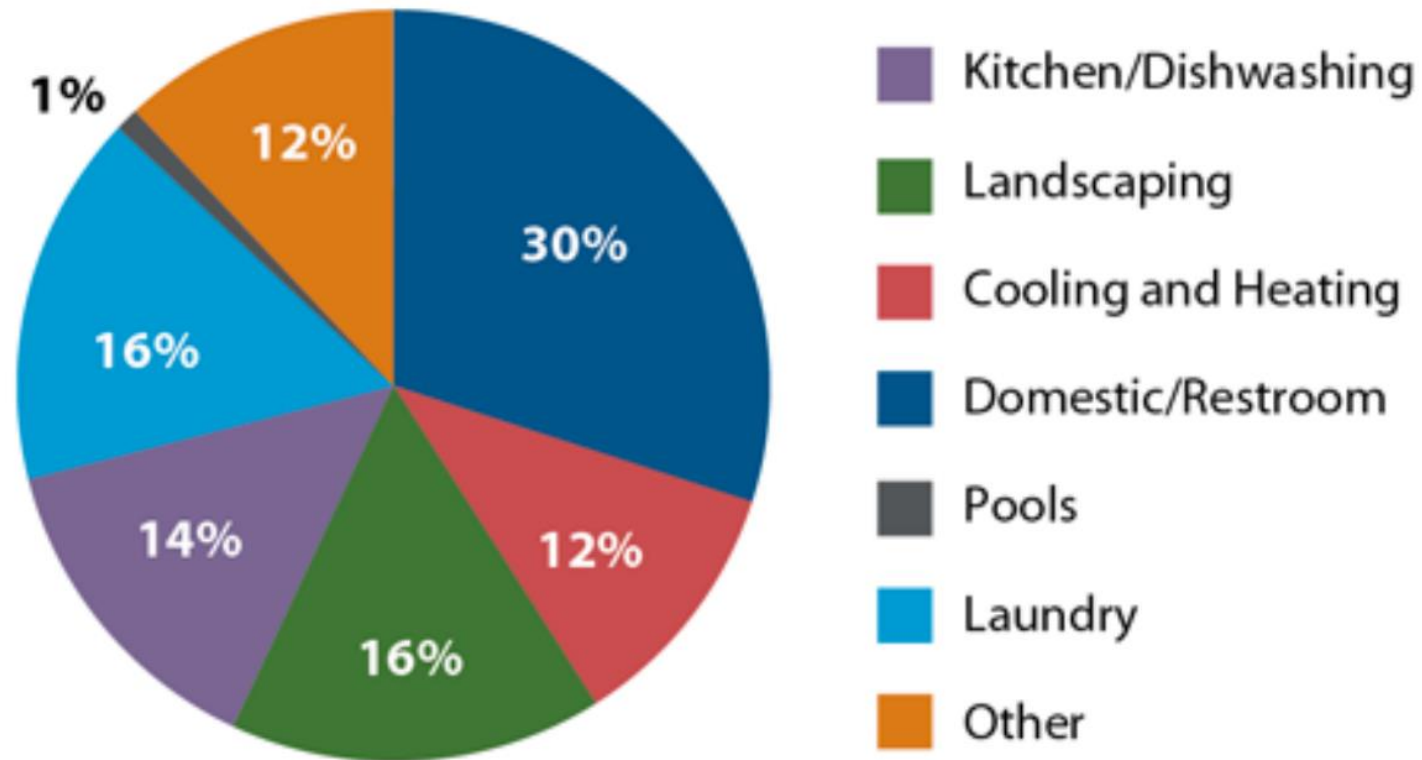
An audit takes from 4 to 8 hours to complete and can range in costs US\$400 to \$800, depending on the size of the hotel and the complexity of its facilities and operations.



GETTING STARTED - MEASURE WATER USE



End Uses of Water in Hotels



Created by analyzing data from: New Mexico Office of the State Engineer, American Water Works Association (AWWA), AWWA Research Foundation, and East Bay Municipal Utility District.



CONSERVING WATER IN GUEST ROOMS



- 💧 The high water use in guest rooms is typically associated with toilets, showers, bathtubs, and bathroom faucets.
- 💧 Consideration should be given to changing old toilets to newer more efficient models.
- 💧 Implementing a towel and linen reuse program to hotel guests will help lower water consumption and appeal to environmentally conscious guests. Towel and linen reuse programs are only effective if staff comply with guest requests.
- 💧 Standardizing housekeeping procedures and offering water conservation training to staff will significantly improve results.



WATER EFFICIENCY IN COMMON AREA RESTROOMS



As with guest room lavatories, common area restrooms can be made water efficient by applying similar modifications, however, male common area restrooms may have urinals which often have potential for efficiency modifications



CONSERVING WATER WHEN LANDSCAPING



- 💧 Avoid watering plants during the heat of the day
- 💧 Select native plants that require little or no watering
- 💧 Equip irrigation systems with controllers that prevent watering when it is not needed
- 💧 Irrigate with harvested rainwater and other water captured on-site



WATER EFFICIENCY IN THE LAUNDRY



Whether laundry is done in-house or contracted out to a third party, there is opportunity to reduce the associated water consumption. Offering towel and linen reuse programs to hotel guests is a great place to start.

- 💧 Replace outdated washing machines with high water use efficiency models whenever possible.
- 💧 Ensure that only full loads are washed.



WATER EFFICIENCY IN KITCHEN



- 💧 Discourage wasteful practices
- 💧 Encourage using water efficiently
- 💧 Run dishwashers with a full load whenever possible
- 💧 Presoak dishes and utensils in a basin of water before cleaning
- 💧 Use pressure sprays to wash dishes
- 💧 Avoid excessive use of dishwashing detergents



WATER EFFICIENCY IN THE UNSEEN ICE MACHINE



- 💧 The biggest offender in terms of water inefficiency is a water cooled ice machine with a once through cooling system.
- 💧 A large amount of heat is generated in the ice making process.
- 💧 Water cooled units may consume substantially more water than is needed to make the ice.
- 💧 Air cooled units are typically more water efficient than water cooled machines.
- 💧 Check ice machines for leaks.



CLOSURE

Contact Information

George Newton
enquire@earthsmart.bb
(246) 420-5433
Earth Smart
Charles Rowe Bridge, St. George, Barbados



Thank you for your kind attention – Questions or Comments?



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CONTACT US:

+1 305 537 7100 | obmi@obmi.com

www.obmi.com