The Hotel Laundry—An Introduction to Strategies for Reducing Environmental Impacts and Operational Costs

Greening Your Hotel’s Laundry Operation Webinar

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Please Note

The information in this presentation is for educational purposes only and is not meant to represent or reflect the requirements of any public or private organization’s certification program.
The Environmental Impacts

- Domestic Water Supply Consumption
- Wastewater Generation
- Energy Consumption
  - Gas
  - Electrical
- Solid & Hazardous Waste Generation
- Air Quality Degradation
- Greenhouse Gases
The Operational Cost

- Labor $$$
- Energy $$$
- Water $$
- Liability $$
  - Human Health & Safety
  - Property
- Chemicals $$
- Wastewater $
- Solid & Hazardous Waste $
Conduct an Assessment
Reducing Environmental Impacts and Operational Cost

**Physical Space & Infrastructure**
- Working Space
- Equipment

**Operations**
- Practices
- Training
- Maintenance
Energy Reduction cont’d

• Operations
  – Control Water Temperature
    • HE Detergents, Ozone, Water Recovery
  – Off Peak Operating Hours
    • 9 p.m. - 7 a.m. WD /24 hrs WE
  – Shut Down Equipment
Energy Reduction cont’d

• Operations
  – Scheduled Preventative Maintenance
  – Utilize High or Extended Spin Option
  – Clean Vents & AC Returns
  – Towel & Linen Reuse
Energy Reduction cont’d

• Physical Space & Infrastructure
  – Natural Lighting w/ Control
  – High Efficiency Lighting
    • CFL, T8 & LED
  – Motion Detector or Timer
  – Natural Ventilation w/ Controls
  – Variable Frequency Drive
Energy Reduction cont’d

- Equipment
  - Upgrading
  - Recommissioning
  - Procurement

Boiler/Water Heater
Washers
Tumble Dryers
Dryer Ironers
Folders
## Energy Star Commercial Washer

<table>
<thead>
<tr>
<th>Utility Bill Savings (each washer)</th>
<th>Heating Fuel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electricity</td>
</tr>
<tr>
<td>First-year savings</td>
<td>$141.60</td>
</tr>
<tr>
<td>Savings over the life of your contract</td>
<td>5-year</td>
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<td></td>
<td>7-year</td>
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<tr>
<td></td>
<td>10-year</td>
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</tbody>
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Source: Energy Star
Water & Wastewater Reduction

- Operations
  - Control Leaks
  - Sink Aerators
  - Full Loads or Adjust Accordingly
  - Maintain Washer
  - High Efficiency Detergents
  - Towel & Linen Reuse Program
Water & Wastewater Reduction

• Physical Space & Infrastructure
  – Equipment
    • Upgrading
    • Recommissioning
    • Procurement

HE Washers
Ozone
Reclamation Recovery & Recycling System
Water Reclamation Recovery & Recycling System

• Reduce water and sewer costs by 80%
• Reduce energy costs by up to 50%
Ozone Washers

- Reduced Energy Costs
- Reduced Water Cost
- Reduced Chemical Costs
- Increased Towel & Linen Life
- Reduced Disposal Costs

✔ Trained In-house Tech
✔ Maintenance Contract
Chemicals Reduction & Replacement

- Operations
  - Environmentally Preferable Product
    3rd Party Certified
    • Green Seal
    • EcoLogo
  - Concentrates
  - HE/Low Temp
  - Eliminate NPE detergents
  - Minimize Chlorine Bleach
Reduce or Eliminate Chlorine Bleach

• All Linens Go Beige
• Improves Staff Health and Safety
  – Reduced Liability
  – Reduced Absenteeism
• Reduced Wastewater Pretreatment
• Good for the Environment
Air Quality & Liability Reduction

Operations

• Eliminate & Prevent Mold
• Reduce or Eliminate Volatile Organic Chemicals
• Reduce or Eliminate Chlorine Bleaches
Solid & Hazardous Waste Reduction

- Operations
  - Reduce, Reuse, Recycle
    - Chemical Containers
      » Concentrates Reduce Packaging
      » Vendor Take Back
      » Use Internally
      » Giveaway
      » Recycle
Solid & Hazardous Waste Reduction

— Operations

• Reduce, Reuse, Recycle
  — Old Towels
    » Rag for Internal Use
    » Create Hot pads
    » Sell
    » Giveaway
Solid & Hazardous Waste Reduction

– Operations
  • Hazardous Waste Reduction
    – Dry Cleaning Alternatives
    – Mercury Containing Devices
Greenhouse Gases

Reduce Utility & Labor Costs...

Save the Planet
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