



## Resource Conservation & Pollution Prevention Checklist for Professional Garment Cleaning

Business \_\_\_\_\_  
 Contact \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Address \_\_\_\_\_  
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 Email \_\_\_\_\_  
 Fax \_\_\_\_\_  
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### Common Questions

**Can my business be certified as a green business?**

Yes! If you use wet cleaning and/or carbon dioxide cleaning systems exclusively you are eligible.

**Why should my business get certified as a Green Business?**

- ◆ Saving energy, water and raw materials saves you money—as does less garbage to haul.
- ◆ The Program promotes Green Businesses to the public and other businesses—for free!
- ◆ Your community image is enhanced.
- ◆ Your employees will enjoy a safer workplace and take pride in working for you.
- ◆ The Green Business Program offers you free, convenient, time-saving assistance.

**Do I get credit for the good things I'm already doing?**

Yes! In fact, your company may already qualify. These Standards are designed to fit most businesses, **but** if certain measures are not applicable or feasible for your facility and operations, you may request an exemption or demonstrate alternative measures.

**Do I have to do everything on the checklist to become a Green Business?**

No, there are many ways to qualify. You must meet the minimum standards in each category. Beyond that, you may use the checklist to identify "next steps" to becoming even greener.

**What if I haven't had an energy, water or solid waste audit already?**

The Green Business Program can arrange an audit for you as part of your certification.

**How do I get started?**

Review this checklist and check all boxes that apply. Call xxxxxx, Green Business Coordinator, at xxxxxxxxx with any questions.

**Is there a fee to be certified as a Green Business?**

*No, Green Business certification is free!*

**GREEN NOTE:**

**Going Green Counters Climate Change**

*Climate Change results from increases in greenhouse gases, like carbon dioxide and methane, trapping heat that would otherwise escape the atmosphere. You can reduce this build-up (and your carbon footprint) by being green! Our checklist has many climate-friendly measures, such as:*

- ◆ **Conserve energy** with fluorescent lights and Energy Star equipment.
- ◆ **Reduce waste** at the landfill (and methane gas emissions)—recycle, compost and buy products with recycled content.
- ◆ **Conserve water** (and the energy to deliver it) with low-flow toilets and drought tolerant plants.
- ◆ **Invest in renewable energy** with renewable energy credits and solar panels.
- ◆ **Conserve fuel** by taking public transit, your bike or a high MPG vehicle.

# General Standards for All Businesses

## Certification

To be certified a Green Business you must:

1. Comply with all environmental regulations applicable to your business. Please ask staff about this.
2. Implement a variety of measures to save energy, water and other materials, and reduce waste. **This checklist walks you through this step!**
3. Allow site visits to verify that your business meets the above two steps.
4. Pledge to continue these terrific efforts to prevent pollution and conserve resources (including environmental compliance).

**Green Businesses** practicing resource efficiency are assuming stewardship for the Earth and its resources, with the goals of achieving a successful business operation, a healthy bottom line, and sustenance of the environment and its inhabitants. A Green Business not only conserves resources but educates employees and customers about resource conservation.

**Re-certification:** Certification as a Green Business is good for **three years**. We strongly encourage continuous improvement. When it's time to recertify, we will ask you to show us additional measure(s) you have implemented.

## Measures

The following general measures are required for all businesses:

- Track water and energy usage and solid and hazardous waste generation.
- Provide 3 on-going incentives or training opportunities to encourage management and employee participation in the Green Business Program. For example, incorporate Green Business into:
  - ◆ Performance appraisals, job descriptions, training programs, employee orientations
  - ◆ Staff meeting discussions
  - ◆ Your employee reference materials
  - ◆ Your company newsletter or bulletins
  - ◆ Your company suggestion and reward programs
- Inform your customers about your business' environmental efforts and what you are doing to meet the green business standards. For example:
  - Post the Green Business logo, certification and pledge in a visible location.
  - Post reminders listing steps you are taking to be a Green Business.
  - Offer tours that highlight your Green Business successes.
  - Offer customers "green" service or amenities options.
  - Highlight your Green Business efforts and/or certification on your website, and link it to the GBP home page.
  - Other: \_\_\_\_\_
- Assist at least one other business in learning about becoming a Green Business. Encourage them to enroll in the Green Business Program and provide their contact information to your GBP coordinator.

# Pollution Prevention

## Measures

1. **Assess your business to identify ways to prevent pollution. Review the plan annually for new measures to implement:**
  - ◆ Check Material Safety Data Sheets (MSDS) and labels for all garment cleaning detergents, spotting agents, cleaning products, building maintenance materials, pesticides, and fertilizers you use. Identify safer alternatives.
  - ◆ Evaluate each area of your facility to identify actual and potential sources of pollution, and ways to prevent it.
  - ◆ Call your local Household Hazardous Waste Program for disposal of hazardous substances not in use.
  
2. **Prevent pollution in 9 ways:**
  - Replace chlorinated hydrocarbon spotting agents with spotting agents compatible with your particular cleaning system. Check with your equipment supplier for the safest, most effective spotters available. Some spotters can cross-contaminate your water or CO<sub>2</sub> cleaning solutions, making your solution illegal to discharge to the sewer drains. See Green Notes on Spotting Agents.
  - Provide training in proper operation of equipment and other ways to reduce waste generation. Conduct periodic refresher courses to increase employee awareness of the importance of reducing waste.
  - Use incentives to encourage employees to use waste reduction techniques and suggest changes in design and operating procedures that would further reduce waste generation. Involve them in designing and implementing waste reduction measures.
  - Keep an equipment maintenance log. Follow manufacturer's recommendations.
  - Install a splashguard enclosing cooling towers—plumbed into sanitary sewer connection.
  - Manually clean cooling towers and filters for recirculating water systems instead of using algaecides. If antifreeze is necessary, use propylene glycol instead of ethylene glycol.

**GREEN NOTE: Spotting Agents** are indispensable tools, but many are **hazardous to the user** and/or may **contaminate your water or CO<sub>2</sub> systems**.

*To protect workers **and** the environment, ask suppliers for the safest spotting agents for you and your cleaning system. Review MSDS and ask questions about **any** unfamiliar chemical ingredient. Always use MSDS recommended safety gear, such as eye protection and gloves.*

*These commonly used spotting agents call for **extreme caution!***

**Some spotting agents contain chlorinated solvents. Check your POG, silk pre-spotters and odor control ingredients.** They may contain TCE (trichloroethylene), methylene chloride or perchloroethylene (tetrachloroethylene). TCE, one of the most common spotting agents, damages the nervous system and liver, and is a carcinogen. Its chlorine can contaminate your cleaning solution, making it illegal to discharge to your sanitary sewer.

**Many rust removers contain Hydrofluoric Acid (HF).** It is **very hazardous**—when spilled or splashed onto eyes or skin, it **quickly penetrates and destroys deep tissue, including bones.** There may be **no tell-tale signs** such as burning or redness to warn that damage is occurring! When working with HF you must use eye protection and proper gloves (PVC or neoprene—latex is ineffective against HF). It should be locked away when not in use and used very sparingly; keep a first aid kit containing calcium gluconate gel handy. This gel can be applied immediately after HF comes in contact with skin to reduce tissue and bone damage. Seek medical attention immediately if eye or skin contact occurs and be sure to inform physician of exposure to HF.

- Monitor equipment, including hoses, couplings, pumps, valves, and gaskets regularly to ensure no leaks. Make repairs promptly.
- Clean lint screens regularly to avoid clogging fans and condensers.
- Be wary of samples offered by suppliers. Check the ingredients to ensure you don't contaminate your cleaning solution. Either use up the sample or ensure the supplier will take back the sample if it is not effective.
- Provide sturdy, compatible, leak-proof secondary containment for large or bulk containers of cleaning agents.
- Use spigots, pumps, and funnels or automated feed systems when dispensing raw materials from bulk containers into smaller containers and into your cleaning machines. This reduces the possibility of spills and minimizes risk to your staff.
- Do not use loose absorbent for spills. Instead, use an old comforter, curtains or rags to soak up spills. Depending upon the volume and material spilled, it may be possible to launder and reuse absorbent rags. If not feasible, contact your waste hauler for proper disposal of spilled material.
- Seal floor drains to sanitary sewer.
- Keep receiving parking, landscaped and dumpster areas free from litter, oil drips, and debris.
- Keep dumpsters covered when not in use.
- Store deliveries and supplies under a roof.
- Keep storage and work areas clean and organized.
- Keep ALL containers properly labeled and covered, including small spot remover bottles and spray containers.
- Store products in locations that will maximize shelf life, controlling access to inventory and rotating stock to use oldest material first. Make sure any hazardous materials are securely stored.
- Replace aerosols with non-aerosol alternatives such as pump sprays or refillable aerosols for fresheners, starches, sizing agents, and cleaners.
- Use oxygen-based bleach instead of chlorine bleach in laundry.
- Other: \_\_\_\_\_

**GREEN NOTE: Only Rain Down The Drain!**

*The storm drain system is separate from the sanitary sewer system, and pollutants that enter these drains flow directly into creeks and the bay without treatment. Educate personnel about this difference and the importance of not letting contaminants enter storm drains.*

**All businesses are required to prevent anything except rainwater from entering storm drains from any of the following activities or sources:**

- ◆ Loading docks
- ◆ Dumpster areas
- ◆ Outdoor working areas
- ◆ Storage areas
- ◆ Landscaping
- ◆ Construction
- ◆ Cleaning equipment/tools
- ◆ Pre-painting
- ◆ Power-wash water
- ◆ Washing vehicles
- ◆ Cleaning parking lots

*Monitor subcontractors to ensure their activities are not polluting storm drains. Prevent erosion during all landscape, construction or other activities. Ask your county coordinator for a list of mobile cleaners.*

- 3. Reduce chemical use in 3 ways:**
- If customers request cleaning of garments not compatible with your cleaning system(s), discuss cleaning options with them. Consider referring customer to other local professional cleaners who use non-perchloroethylene cleaning methods.
  - Inspect incoming clothes closely to ensure customer is not unrealistic about some stains.
  - Ask customers if a longer turnaround time is acceptable to increase likelihood of having full loads when washing.
  - Size garment loads correctly—don't overload or under load machine.
  - Replace standard fluorescent lights with low- or no-mercury fluorescent lights.
  - Use rechargeable batteries and appliances, such as hand-held vacuum cleaners and flashlights.
  - Print promotional materials with vegetable or other low-VOC inks.
  - Use natural or low emissions building materials, carpets or furniture.

- Do business with other “green” vendors or services, such as certified Bay Area Green Businesses (see full listings at [www.greenbiz.ca.gov](http://www.greenbiz.ca.gov)).

Eliminate or reduce use of chemical pesticides by implementing an Integrated Pest Management (IPM) program:

- Specify in pest control contracts that primary pest management methods include non-chemical pest prevention and pest exclusion.
- Use traps, barriers and less toxic pesticides (such as soaps, oils, microbials and baits). Apply on an as-needed (vs. set) schedule.
- Set up storage and sanitation procedures and planting, irrigation and cultivation (e.g., pest-resistant plants) to discourage pests.
- Other: \_\_\_\_\_

**4. Recycle/reuse 3 of the following potential pollutants (please see measures required by law in “Green Notes” below):**

- Reuse rinse water from wet cleaning as primary wash in next laundry cycle. (Need a holding tank and/or recirculating system for rinse water to accomplish this).
- Excess paint/solvents (keep only what’s needed for touch ups, then give remainder to hazardous waste collection program, donate to anti-graffiti program, or return to contractor or manufacturer).
- Used copier toner cartridges (take back to supplier or send back to manufacturer for recycling or refilling).
- Ink jet cartridges (send or take back for recycling or refilling).

**GREEN NOTES**  
*The following materials are considered to be hazardous universal wastes, and must be recycled:*

- ◆ Spent fluorescent light tubes.
- ◆ Electronic equipment (computers, cell phones, pagers, etc.).
- ◆ Batteries (to household hazardous waste or a battery recycling program such as Rechargeable Battery Recycling Corp: [www.rbrc.org](http://www.rbrc.org))

*For more information, contact your county’s household hazardous waste program.*

- Car fluids from company vehicles.
- Donate for reuse (not just recycle) electronic equipment, such as computers, phones, pagers, etc.
- Other: \_\_\_\_\_

**5. Reduce vehicle emissions in 3 ways:**

- Join the Air District’s “Spare the Air” program (see box below) and notify staff of “Spare the Air” days.
- When possible, arrange for a single vendor who makes deliveries for several items.
- Patronize services close to your business (e.g., food/catering, copy center, etc.) and encourage employees to do the same.
- Carefully plan delivery routes to eliminate unnecessary trips.
- Keep company vehicles well maintained to prevent leaks and minimize emissions; encourage employees to do the same.
- Other: \_\_\_\_\_

**SPARE THE AIR PROGRAM**  
*Spare the Air Days are called in summer when conditions indicate that we may exceed state and federal air quality standards for healthy air. Participating businesses receive Spare the Air Day alerts and free information on ways to improve air quality. Join by visiting the Bay Area Air Quality Mgmt. District’s website at [www.SparetheAir.org](http://www.SparetheAir.org).*

Commute Alternatives

- Make transit schedules, commuter ride sign-ups, etc. available to staff. Get help from [www.511.org](http://www.511.org) using their “Ridematch Tool”.
- Offer telecommuting opportunities and/or flexible schedules so workers can avoid heavy traffic commutes.
- Hire locally.
- Other: \_\_\_\_\_

Commute Alternatives for Larger Employers

- Offer lockers and showers for staff who walk, jog or bicycled to work.
- Offer secure bicycle storage for staff and customers.
- Offer employee incentives for carpooling or using mass transit (e.g. guaranteed ride home or subsidized transit passes).
- Set aside car/van pool parking spaces.

- Provide commuter van.
- Encourage bicycling to work by offering rebates on bicycles bought for commuting.
- Offer a shuttle service to and from bus, train and/or light rail stops.

Other Greenhouse Gas Emissions

- Complete a CO2 or eco-footprint calculator to determine your own greenhouse gas emissions.
- Convert company vehicles to low emission vehicles (electric, hybrid, natural gas or alternative fuels).
- Offer electric vehicle recharge ports for visitors and staff using electric vehicles.
- Use biodiesel (100% or blends) or vegetable diesel in place of petrodiesel in vehicles.
- Install renewable energy sources, such as solar panels or wind generators.  
System Size: \_\_\_\_\_
- Buy renewable energy credits or green tags to offset the CO2 emissions from your office's use of electricity and natural gas (see [www.green-e.org](http://www.green-e.org)).
- Offset company's vehicle CO2 emissions. See [www.driveneutral.org](http://www.driveneutral.org), [www.carneutral.org](http://www.carneutral.org), or [www.terrapass.org](http://www.terrapass.org).
- Other: \_\_\_\_\_

# Solid Waste Reduction & Recycling

## Measures

1. **Look in your garbage dumpster annually to see if there are items that could instead be reused by someone else or recycled.**

2. **REDUCE waste in 7 ways.**

- Provide reusable nylon bags for customers to buy and in which they can transport their dirty clothes. After being cleaned, the clothes can be hung on hangers and covered with the nylon bag rather than plastic wrap.
- Buy products in returnable or reusable containers.
- Work with vendors to minimize packaging.
- Require chemical suppliers to take back empty buckets or drums.
- Eliminate inner-pack dividers in shipping containers for miscellaneous supplies.
- Require corrugated cardboard boxes instead of waxed cardboard for produce unless you are composting food waste off-site. Waxed cardboard can be composted with food waste.
- Store and rotate supplies to minimize loss through spoilage and damage.
- Eliminate the use of non-recyclable packaging, such as Styrafoam.
- In the lunch/break room, replace disposables with permanent items (e.g., mugs, dishes, utensils, towels/rags, coffee filters, etc.) and use refillable containers for sugar, salt & pepper, etc. to avoid individual condiment packets.
- Serve dishes at office events in reusable serving dishes.
- Eliminate single-use plastic water bottles.
- Use air hand dryers in restrooms instead of paper towels.
- Discourage the printing of emails.
- Set copier/printer defaults to double-sided.
- Practice efficient printing and copying by using the size reduction feature—print two pages of a document or book onto one page.
- Use computer fax modems that allow faxing directly from computers without printing.
- Eliminate fax cover sheets by using "sticky" fax directory notes.

- Eliminate unnecessary forms, redesign forms to use less paper, or switch to electronic forms.
- Use a bulletin board or routing lists for memos and journals to reduce printed copies.
- Reduce all unwanted mailings:
  - Eliminate duplicates by returning labels requesting all but one be removed.
  - Reduce junk mail. Guidance and a PDF kit are at <http://stopjunkmail.org> Reduce catalogs at [www.catalogchoice.org](http://www.catalogchoice.org)
  - Eliminate duplicates in your own mailing lists.
- For new software, order only the number of manuals needed. Do the same with phone books. Encourage employees to share.
- Subscribe to journals online rather than receiving hard copies.
- Design marketing materials that require no envelope – simply fold and mail.
- Centralize purchasing to eliminate unnecessary purchases and ensure all waste reduction purchasing policies are followed.
- Use optical scanners, which give more details about inventory, for more precise ordering.
- Lease, rather than purchase, computers and printers.
- Leave mowed grass on lawn ("grasscycling").
- Other: \_\_\_\_\_

3. **REUSE materials in 3 ways.**

- Allow customers to return hangers for reuse.
- Reuse paper or plastic packaging materials.
- Print on previously printed paper, or designate a tray on printers as a "draft" tray.
- Reuse office paper as scratch paper.
- Reuse envelopes by covering old addresses and postage, and affixing new.
- Designate a reuse area for office supplies such as binders, folders and staplers.
- Reuse garbage bag liners.
- Have your toner cartridges refilled for use.
- Donate furniture, supplies, scrap materials, etc., or use a waste exchange program where another business can take your unwanted items ([www.ciwmb.ca.gov/CalMAX](http://www.ciwmb.ca.gov/CalMAX)).
- Other: \_\_\_\_\_

**4. RECYCLE all of the required materials and at least one additional material.**

- REQUIRED:** Cardboard
- REQUIRED:** Newspapers, office/mixed paper, junk mail
- REQUIRED:** Glass bottles and jars
- REQUIRED:** Metal cans, containers, aluminum foil
- REQUIRED:** Plastics (beverage bottles, condiment containers, packaging materials and non-deposit containers).
- Provide a collection box for customers to recycle plastic garment bags. Both of these companies recycle garment cleaning bags:  
Marathon Recovery: 510/636-4191  
Trex: 888/319-9795
- Wood (pallets, wood from remodeling)
- Scrap metal (from remodeling and replacing equipment).
- Landscape trimmings. (Can be part of the contract with your landscape service or can be collected with food waste).
- Carpeting.
- Leave grass clipping on mowed turf ("grass-cycling").
- Other: \_\_\_\_\_

- Toilet seat covers.
- Recycled or remanufactured laser and copier toner cartridges
- Carpet, carpet undercushion, or flooring
- Remodeling/construction materials: cabinets, fixtures, ceramic and ceiling tiles, drywall, insulation, interior paneling, composite lumber/wood, roofing, concrete, etc.
- Purchase or obtain previously used furniture, supplies or materials ([ciwmb.ca.gov/CalMAX](http://ciwmb.ca.gov/CalMAX), [freecycle.org](http://freecycle.org), Craig's List). List examples:
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- Other: \_\_\_\_\_

**5. Buy the first required item and at least 3 more items with recycled content.**

Purchasing products made from recycled materials conserves resources and is essential to support the recycling market.

- REQUIRED:** Copier/printer paper with at least 30% post-consumer waste
- Copier/printer paper with 100% post-consumer waste
- Written policy guiding purchase that emphasizes buying recycled-content and low-toxicity products
- Nylon garment bags for customer's clothes.
- Recycling bins and containers
- Garbage bags
- Folders or other paper products
- Envelopes
- Letterhead
- Business cards
- Paper towels
- Tissues
- Toilet paper



# Energy Conservation

## Measures

- 1. Complete regularly scheduled maintenance on your HVAC (heating, ventilation and air conditioning) and refrigeration systems.**
  - ◆ Clean permanent filters with mild detergents every two months (change replaceable filters every 2 months).
  - ◆ Check entire system each year for coolant and air leaks, clogs, and obstructions of air intake and vents.
  - ◆ Keep condenser coils free of dust and lint.
  - ◆ Keep evaporator coils free of excessive frost.
- 2. Save energy in 7 ways. At least 3 must come from "Equipment & Facility", and must include the two required lighting measures.**

### **EQUIPMENT & FACILITY:**

#### General

- Use electrical equipment with energy saving features (e.g. Energy Star<sup>®</sup>) and ensure Energy Star settings are enabled.
- Use power management software programs that save energy by automatically turning off idle monitors and printers (must be purchased separate from computer).
- Use a time switch to automatically turn off office equipment after working hours.
- Use sensors on vending and ice machines and place machines in shaded areas.
- Use weather stripping (weatherizing and caulking) to seal air gaps around doors and windows.
- Insulate all hot water pipes, hot water heaters and storage tanks.
- Use a booster heater for hot water use.
- Use a solar water heater or preheater.
- Replace electric hot water heaters with natural gas ones.

- Replace refrigerators older than 10 years with new Energy Star<sup>®</sup> ones.
- Other: \_\_\_\_\_

#### Lighting

- REQUIRED:** Replace any older T-12 fluorescent lighting with energy-efficient T-8 or T-5 fixtures with electronic ballasts.
- REQUIRED:** Replace any incandescent bulbs with efficient compact fluorescents.
- Reduce number of fixtures.
- Increase lighting efficiency by installing optical reflectors and/or diffusers.
- Improve exit sign efficiency by using compact fluorescent bulbs, LED signs or electroluminescent signs.
- Use lighting controls such as occupancy sensors, bypass/delay timers, photocells, or time clocks, especially in low occupancy areas such as closets and restrooms.
- Use dimmable ballasts to dim lights to take advantage of daylight.
- Use daylight dimmers that turn off automatically when light is sufficient.
- Other: \_\_\_\_\_

#### **GREEN NOTE:**

*Outdoor lighting offers an excellent opportunity to conserve energy as it often remains on for long hours. Using efficient lights (e.g., compact fluorescents) and timer controls or photo sensors, can reduce wasted energy and your monthly bill. This measure alone may reduce energy use by 15%.*

*Energy Star<sup>®</sup>-compliant monitors have power management features and consume up to 90% less energy. Screen savers don't save energy!*

*Energy Star<sup>®</sup> copiers and fax machines can reduce their annual electricity costs by about 60% and 50% respectively.*

Heating, Ventilation & Cooling

- Use building design features for improved or more efficient ventilation or heat conservation. Describe:
  - \_\_\_\_\_
  - \_\_\_\_\_
- Use a programmable thermostat to control heating and air conditioning.
- Use bypass timers and/or time clocks.
- Use ceiling fans for air circulation.
- Replace or supplement an A/C system with an evaporative cooler.
- Use economizers on A/C to increase air circulation.
- Replace single or package A/C unit with one with a greater Seasonal Energy Efficient Rating (SEER) > 13 for most common size equipment.
- Use occupancy sensors to control air conditioning and heat.
- Provide shade for HVAC condenser, especially roof-top fixtures
- Shade sun-exposed windows and walls: use awnings, sunscreens, shade trees or shrubbery.
- Apply window film to reduce solar heat gain, if applicable.
- Use energy-efficient double paned windows on at least 90% of windows.
- Replace an electric heating system with a natural gas system.
- Other: \_\_\_\_\_

**STAFF PRACTICES:**

General

- Institute a formal policy that all electronic devices and lighting be turned off when not in use.
- Use the standby mode on equipment (e.g., energy saver buttons on copiers).
- Rearrange workspace to take advantage of areas with natural light and design for increased natural lighting when remodeling.
- Other: \_\_\_\_\_

Lighting

- Disconnect unused ballasts in delampd fixtures AND replace burned out lamps quickly to avoid ballast damage.

- Clean lighting fixtures, diffusers and lamps so they are lighting as effectively as possible (dirt can reduce lighting efficiency by up to 50%).
- Check and adjust lighting control devices such as time clocks and photocells.
- Use task lighting instead of lighting the entire area.
- Use light switch reminders to remind staff to turn off lights when not in use.
- Other: \_\_\_\_\_

Heating, Ventilation & Cooling

- Set thermostat to 78° F for cooling, 68° F for heating and use the thermostat's night setback.
- Seal off unused areas. Block and insulate unneeded windows and other openings.
- When repainting building exterior and roofs, choose light colors to reflect more sunlight.
- Use small fans OR space heater during off hours instead of conditioning entire office.
- Adjust controls for temperature, speed or other settings to reduce energy use.
- Other: \_\_\_\_\_

Hot Water Use

- Drain and flush hot water tanks to the sanitary sewer every 6 months to prevent scale build-up and deposits (this can reduce heating efficiency).
- Set hot water heaters to standard 140°–150° F.
- Check pilot lights for proper adjustment (gas kitchen/hot water).
- Other: \_\_\_\_\_

**GREEN NOTE:**

*A simple tune-up can increase the energy efficiency of your furnace by 5% and you can save up to 10% by insulating and tightening up ventilation ducts.*

*Ceiling fans use 98% less energy than central A/C units. And heating with natural gas instead of electricity can be 40-56% more efficient.*

# Water Conservation

## Measures

### 1. Save water in these REQUIRED ways.

- Assign a person to monitor each water bill for sudden rises in water use. Call your water company should this happen. You can also ask for ways to save water.
- Regularly check for and repair all leaks in your facility. Leaks in toilet tanks can be detected with leak detecting tablets, which may be available from your water company.
- Install low-flow aerators and showerheads (your water company may offer these for free):
  - As low as 0.5 gpm and no greater than 2.5 gpm for lavatory sinks
  - 2.0 gpm or less for kitchen sinks
  - 2.0 gpm or less for showerheads
- Use signs in restrooms to encourage water conservation and to report leaks.
- Use only dry methods to clean outdoor hard surfaces and post instructions for staff. Call your water company for any exceptions to this rule.
- If you have landscaping/irrigation:
  - Install matched precipitation rate sprinkler heads in turf areas.
  - Test irrigation sprinklers 4 times per year to ensure proper operation and coverage and repair all broken or defective sprinkler heads/nozzles, lines and valves.
  - Adjust sprinklers for proper coverage—optimize spacing, avoid runoff onto paved surfaces.
  - Water during early morning, pre-dawn hours to reduce water loss from evaporation.
  - Use repeat cycles when watering turf or shrubs to encourage percolation and deep root growth.
  - Adjust the irrigation schedule monthly during irrigation season, or as needed.
- For businesses with an average water consumption rate exceeding 1,200 gallons per day and which use a dry cleaning machine equipped with “single-pass” cooling, install closed loop cooling tower to reduce water waste. Your local water company may offer rebates to reduce the cost of this upgrade.

### 2. Save water in three other ways, including the first required way.

Consider areas of greatest water use (facility or landscaping) in choosing new measures. Be sure to ask your water company about rebates.

#### Facility:

- REQUIRED:** Install toilets using 1.6 gpf (gallon per flush) or less.
- Go beyond the above 1.6 gpf toilets to 1.3 gpf HETs (High Efficiency Toilets)! Check both this measure *and* the above one. Ask your water district for rebates when replacing 3.5 gpf or higher toilets with the HETs.
- Provide additional urinals in men’s restroom and reduce number of toilets (urinals use less water than toilets).
- Replace flush mechanism in urinals with ones that flush at 1.0 gallon or less (as low as 0.125 gpf) or install new waterless types.
- Install self-closing faucets (0.5 gpm and 0.25 gallon/cycle).
- Set up an annual program to educate staff about the benefits of efficient water use.
- Schedule your water company to make a presentation to staff to encourage water conservation at home. (Some water companies offer training and “take home” conservation kits.)
- Indoors, use dry floor cleaning methods, followed by damp mopping, rather than spraying or hosing with water.
- Change window cleaning schedule from “periodic” to “as required.”
- Reduce water pressure to no higher than 50 psi by installing pressure reducing valves.
- Adjust boiler and cooling tower blowdown rate to maintain TDS (total dissolved solids) at levels recommended by manufactures’ specifications.
- Replace water-cooled equipment, such as air conditioning units, with air-cooled.
- Other: \_\_\_\_\_

Landscaping:

- Mulch all non-turf areas.
- Plant drought tolerant plants (assistance is available from your water company).
- Hydrozone: Group plants with similar water requirements together on the same irrigation line, separating plants with different water requirements on separate irrigation lines.
- Reduce area of turf.
- If installing new turf, limit area and use drought tolerant species, space sprinkler heads such that the water from one sprinkler head reaches the adjacent sprinkler heads.
- Modify your existing irrigation system to include drip irrigation.
- Install rain shut-off devices that turn off the irrigation system during rain.
- Install irrigation controllers that have at a minimum the following features: precise 1-minute runtime capability; a minimum of 3 separate programs; and 3 cycle start time features.

- Reduce irrigation system water pressure to no higher than 50 psi ( pressure-reducing valves must be installed to do this).
- Use reclaimed water for irrigation and other approved uses.
- Install a self-adjusting weather-based irrigation controller that automatically tailors watering schedules to match local weather, plant types, and other site-specific conditions. Controller must be certified under the Irrigation Association's SWAT protocol.
- Work with your water company to develop a site-specific "water budget". Track your water use to ensure efficient watering.
- Other: \_\_\_\_\_

**GREEN NOTE:**

*A faucet with a slow leak can waste 10 gallons of water a day, or more!*

*A single leaky toilet can waste as much as 1000 gallons of water per day.*