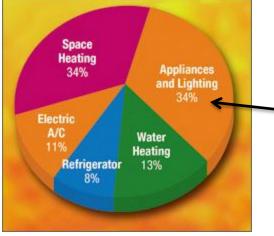
What we can do to make our homes more energy efficient E environmentally friendly





Assessment of Utility Usage



What is the breakdown of utility consumption?

Lights – 11% Computers – 8% Appliances – 8% Other – 7%

55% of all utilities all base load

Water Usage

51% irrigation 20% toilets 10% showers 8% laundry 8% faucets 2% leaks 1%dishwasher

What to do?

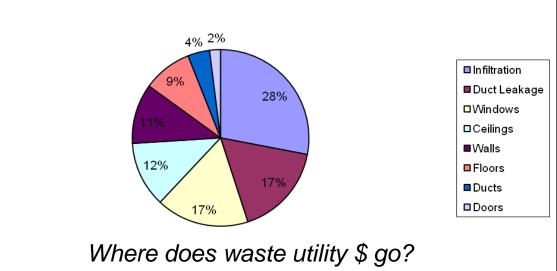
Assessment – audit to understand where \$'s go and identify opportunities

Establish Conservation goal – start small, change behavior, define upgrades, establish a master plan

Provide maintenance – change filters, flush hw heater, recharge AC, fix leaks, clean refrigerator coils, replace door seals on refrigerator, look for gas flames that are blue not yellow.

Perform upgrades – weekend homeowner projects vs. contractor activities

Monitor – keep record of utility bills each month, track progress by measuring consumption.





Areas for Improvement

- Property
- · Exterior
- · Interior
- Heating & Cooling Systems
- · Plumbing Water ξ Sanitary
- · Electrical
- · Other Ideas



Why Do ít!

- · Improve indoor air quality
- · Improve comfort
- Reduce energy usage
- · Improve value of your home
- Reduce the impact on the environment
- Reduce dependency on natural resources



Typical Household Water Usage

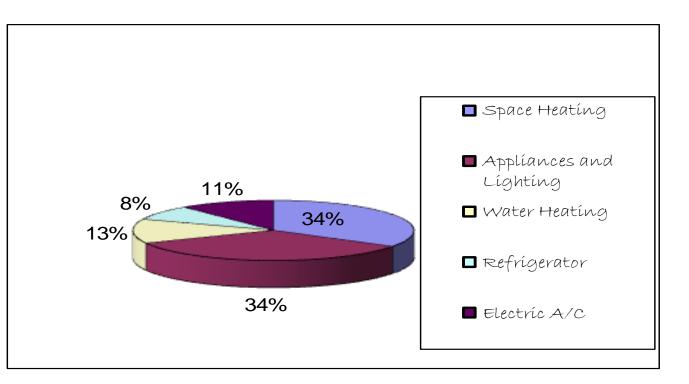
 By the year 2050, the worldwide availability of freshwater will have decreased by a third as a result of global warming, population growth, and wasteful habits.



Typical Sources of Energy Use

- Space heating accounts for 34% of all primary energy input.
- Space heating includes all • sources: electricity, natural gas, fuel oil and propane.
- 34% is a wide array of electric appliances.

Professionals, LLC





What can we do! Property









- Improve grading away from foundation
- · Raín barrels
- If irrigating drip /controller
- Shade trees
- · Composting



What can we do! Property









- · Recycle leaves/branches/clippings
- Less impervious surfaces
- · Drought tolerant plants
- · Organic fertilizers
- · Solar walkway lighting



What we can do! Exteríor



- · seal openings and cracks
- · Caulk around all joints
- Weatherstrip Doors
- Install storm doors
- Keep gutters and downspouts clean



What we can do! Exteríor



- If re-roofing use light colored roofing.
- Entrance lighting use cfl's/motion sensors.
- · Replace doors and windows.

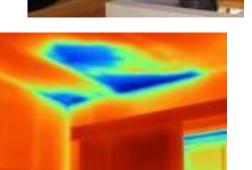


What we can do! Attíc







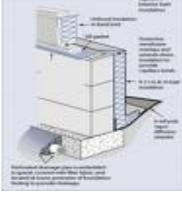


- Additional attic insulation
- Radiant Barrier
- · Seal holes and penetrations
- · Provide ventilation
- Insulate attic stair
- Insulate attic ductwork





- Task lighting in kitchen
- · Replace lamps with cfl's
- · Seal around recessed lights
- Turn off lights









- Weather stripping on doors
- · Gasket electrical outlets
- Storm windows
- Insulate floor over crawl space







- · Seal around ceiling grilles
- Bath exhaust to exterior
- Seal attic access panels
- Clean dryer vent
- Set thermostat @ 76° F ín
 summer and 68° F ín winter

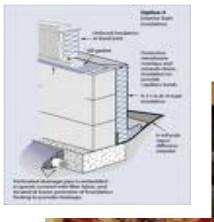




- · Power strip electronic devices
- Window shades in summer
- Insulating drapes in winter
- · Leave bedroom doors open
- · Ceiling fans in each bedroom



What we can do! Crawl Space/Basement





- Install 20mil poly on
 - floor

• Close vents in winter

- Insulate walls or floor above
- Insulate rim joist



What we can do! Crawl Space/Basement



- · Seal basement windows
- Insulate basement door
- · Seal bilco door
- Fill all cracks and around penetrations in foundation



What we can do! Hot & cold water



- · Low flow shower heads
- Sínk aerators
- · Set HWH at 120°F
- · Jacket the HWH
- Add hot water pipe ínsulation



What we can do! Hot & cold water



- Use dishwasher
- Full load use of washing machine
- · Dual flush toilets
- · Instantaneous HWH
- Draín corrosíon from
 HWH



What we can do! Heating & A/C







- Replace filters
- · Check ducts for leakage
- Seal grílles and díffusers
- Keep doors to bedrooms
 open



What we can do! Heating & A/C







- Programmable thermostat
- Participate in utility company energy program
- Install kitchen/bath fans to remove odors and moisture



What we can do! Electrícal

- "Your electronic appliances and high-tech gizmos can drain electricity even when turned off. Some experts call this "vampire power" or wasted standby power, which can account for up to 10% of your monthly electric bill."
- Change recessed down lights to sealed down lights
- Replace incandescent lamps w/ cfl's
- EnergyStar appliances



What we can do! Electrícal

- "Your electronic appliances and high-tech gizmos can drain electricity even when turned off. Some experts call this "vampire power" or wasted standby power, which can account for up to 10% of your monthly electric bill."
- Subscríbe to green energy províder
- Turn off lights when not in the room
- Timers and motion sensors



What we can do! Recycle

- Recycle plastic bags
- Díspose of batteries
 properly
- Non-toxíc cleaning products





What we can do! Recycle

- Non VOC's paint/carpet
- Plastic/glass containers
- Reduce junk mail go to www.catalogchoice.org.





What we can do! Other Ideas





- · Buy local produce
- Recycled/post consumer paper products
 - Engineered wood products





What we can do! Other Ideas



- · carpool
- Combine errands using gas efficiently
- · Keep auto serviced
- · Bicycle/walk if possible
- Consider hybrids



Web Sítes You Can Visit

- Calculate your carbon footprint: www.earthlab.com/carbonprofile.
- Rebates are available through: www.bpu.state.nj.us
- Ideas are available through EPA, DOE and Energy Star.
- Calculate you low impact living index @ www.lowimpactliving.com



Web Sítes You Can Visit

- · Visit USGBC The Green home Guide.
- New Jersey Green Homes @ www.nj.gov/dca/dhcr/hsgprog/njgreenhomes.
- Lísts of Green products @ www.buildinggreen.com



Additional Sources of Information

- · Home Energy Magazine-www.homeenergy.org
- Consumer Guide to Home Energy Savings-Alex Wilson, Jennifer Thorne, John Morrill
- · Go Green Live Rich-David Bach
- · The Home Energy Diet-Paul Scheckel



