



Mission Investment Fund
Evangelical Lutheran Church in America
God's work. Our hands.

Energy/Earthcare Checklist

This guide will help your congregation assess what you are already doing to save energy and protect the earth. It will also highlight areas where you can make changes or improvements. Changes that your congregation make will help care for Creation, and save energy and money. This guide is not a replacement for a full energy audit by a qualified professional however. A professional energy audit will utilize tools that can see air leaks and find spots that need insulation. But until a professional energy audit can be completed, a small group of people can use this guide to take many important steps toward energy conservation.

If you don't already have a Green Team, gather a team for this evaluation. You will want to involve leaders and people who know your congregational building well, along with office and building maintenance staff.

The guide is divided into two sections. The first part looks at heating and cooling systems, as well as recycling, purchasing, and embracing Creation Care at your church. The second part leads you through the grounds and building and asks you to evaluate your current situation. Check all the boxes that apply to your church, and be proud of what your congregation is already doing. Identify new energy-savings/earth friendly options that make sense for your church and begin to prioritize these initiatives. Many of these are free or low-cost improvements that can be done quickly. Others will require purchases and may need to be phased over time, but there are many opportunities for rebates and discounts. Remember that many improvements will pay for themselves in energy savings; and investing in energy efficient and earth-friendly practices also provides an immediate return in building reliability, as well as improving the comfort and health of its occupants.

Your MIF Regional Manager can be a resource for you on these topics and provide information on MIF Investment and Loan opportunities. To locate the Regional Manager for your geographic areas, visit MIF's website www.mif.elca.org/locate-regional-manager.

SYSTEMS, RECYCLING, PURCHASING & EARTHCARE

HEATING AND COOLING SYSTEMS

Heating System Type:

Make/Model/Year:

AFUE rating (annual fuel utilization efficiency) if available:

ENERGY STAR rated (____ Yes ____ No)

Comments:

Cooling System Type:

Make/Model/Year:

SEER rating (seasonal energy efficiency rating) if available:

ENERGY STAR rated (____ Yes ____ No)

Comments:

*Installing and energy-efficient heating and AC equipment can result significant operational savings. Equipment must be properly sized after heating load of building has been reduced (weatherizing, energy efficient lighting upgrades, etc.)

	Comments
<input type="checkbox"/> boilers/furnace maintained on a scheduled basis	Schedule annual HVAC maintenance checks and stick to them.
<input type="checkbox"/> filters and heating/cooling coils maintained on a scheduled basis	This can reduce energy costs up to 5%.
<input type="checkbox"/> refrigeration condensers or coils clean, unclogged and/or functioning efficiently	
<input type="checkbox"/> air inlets or outlets clean and unobstructed	
<input type="checkbox"/> duct or pipe insulation present and intact	
<input type="checkbox"/> ENERGY STAR programmable thermostats	Programmable thermostat will optimize operation of system and improve comfort. Proper use can save 30% in monthly heating costs.
<input type="checkbox"/> thermostats safe from occupant manipulation	Lock or make inaccessible so occupants can not tamper with.
<input type="checkbox"/> thermostats appropriately located (away from extreme temp. fluxuations)	Should be in a central location away from areas subject to extreme temp. fluctuations.
<input type="checkbox"/> heat moderated throughout building to suit times and areas of use	Turn down heat in areas that are not being used, and at night. Limit meetings to certain nights/times to conserve energy.
<input type="checkbox"/> thermostat temp. raised for cooling in summer (at least 78)	Consider solar screens, ceiling fans and natural ventilation to reduce need for air conditioning.
<input type="checkbox"/> thermostat temp. lowered for heating in winter (68 degrees or lower)	Weatherize (weather strip, insulate, windows) for energy efficiency and comfort. Close blinds at night.
<input type="checkbox"/> Green Power purchasing	Consider purchasing green power from your local utility. Visit www.eere.energy.gov/greenpower for more information.

See reverse for additional comments

DOMESTIC HOT WATER

Water Heater Type:

Make/Model/Year:

EF (energy factor) if applicable:

ENERGY STAR rated (____ Yes ____ No)

Comments:

Additional Water Heater:

Make/Model/Year:

EF (energy factor) if applicable:

ENERGY STAR rated (____ Yes ____ No)

Comments:

Comments

<input type="checkbox"/> decentralized/on-demand hot water heaters	Consider tankless or on-demand water heaters when it is time to replace old water heater.
<input type="checkbox"/> hot water temperature set no higher than 120° F	This helps to prevent scalds and save energy.
<input type="checkbox"/> insulated hot water heater (if more than 5 years old)	Wrap in an insulating blanket if not.
<input type="checkbox"/> 3' of insulated 'out' pipe	This applies to older and newer water heaters.
Other areas of opportunity or concern:	

SPECIFIC AREAS AND ROOMS OF THE CHURCH

OUTSIDE THE CHURCH

Comments

<input type="checkbox"/> ground slopes away from building	This will help prevent water seepage into building.
<input type="checkbox"/> limited or no pesticides, herbicides, and toxic fertilizer use	
<input type="checkbox"/> native plants and grasses	
<input type="checkbox"/> vegetable garden/community garden	
<input type="checkbox"/> compost	
<input type="checkbox"/> manual gardening tools & mowers	Gas powered landscape equip. (mowers, trimmers, blowers) account for over 5% of urban air pollution.
<input type="checkbox"/> mulching mower	According to EPA, yard waste, which is mostly grass clippings, comprise 20% of municipal solid waste collected.
<input type="checkbox"/> drip irrigation	
<input type="checkbox"/> watering during droughts is avoided	
<input type="checkbox"/> down spouts located to distribute water and promote proper absorption	
<input type="checkbox"/> bare areas plant covered or mulched	
<input type="checkbox"/> rain barrels	
<input type="checkbox"/> other storm water collection or management systems (rain garden, bio swale, green roof)	
<input type="checkbox"/> efficient lighting	
<input type="checkbox"/> lighting on sensors or timers	
<input type="checkbox"/> outdoor lighting levels stay within adequate boundaries (not excessive)	
<input type="checkbox"/> good use of land (sharing it, promoting animal habitats, etc.)	Consider community garden, native plants, replacing up un-used paving with planting, etc.

See reverse for additional comments

BUILDING ENVELOPE

Comments

<input type="checkbox"/> windows and doors properly aligned and operational	
<input type="checkbox"/> weather-stripping and caulking in place and intact on windows	Stopping air infiltration is a simple task that can lower your heating and cooling bills. It may also reduce your heating load.
<input type="checkbox"/> weather-stripping and caulking in place and intact on doors	see above
<input type="checkbox"/> weather-stripping and caulking in place and intact (conduits, piping, joints, or other areas of infiltration)	see above
<input type="checkbox"/> insulated/double-pane windows	Consider <u>character appropriate</u> Energy Star label windows. Seal, repair and add storms if replacement not an option.
<input type="checkbox"/> ceiling insulation (include type and R-value if known)	Ceiling insulation is very critical to energy conservation. Exceed minimum R-value (per local code) if possible.
<input type="checkbox"/> wall insulation (include type and R-value if known)	Insulate wall cavity if accessible. Exceed minimum R-value (per local code) if possible.
<input type="checkbox"/> basement insulation (include type and R-value if known)	
<input type="checkbox"/> cover for through the wall cooling units when not in use	Insulated AC covers can control drafts and keep heat in, improving comfort and energy savings. They can be made or purchased.
<input type="checkbox"/> shade trees, canopies, or overhangs to block southern sun in cooling season	Controlling direct sunlight through windows can reduce cooling and heating costs. It is best to control sunlight before it enters building.
<input type="checkbox"/> roof free of visible damage	Roof damage can lead to other building problems including water and air infiltration. Consider insulation upgrade when repairing or replacing roof.
Other areas of opportunity or concern:	

KITCHEN**Comments**

<input type="checkbox"/> CFL or LED lamps	
<input type="checkbox"/> adequate shading to prevent unwanted solar heat gain if applicable.	
<input type="checkbox"/> high-efficiency or ENERGY STAR refrigerator	
<input type="checkbox"/> high-efficiency or ENERGY STAR freezer	
<input type="checkbox"/> high-efficiency or ENERGY STAR stove	
<input type="checkbox"/> high-efficiency or ENERGY STAR dishwasher	
<input type="checkbox"/> other high-efficiency equipment	
<input type="checkbox"/> freezer free of icy build-up	
<input type="checkbox"/> refrigerator/freezer condensers or coils are clean, unclogged and functional	
<input type="checkbox"/> refrigerator temperature set correctly (adequately cool, but no colder than necessary)	
<input type="checkbox"/> adequate refrigerator door seal	
<input type="checkbox"/> freezers and refrigerators kept full	Fill extra space with jugs of water for increased efficiency.
<input type="checkbox"/> kitchen equipment used efficiently (exhaust hood fans & coffee makers off when finished using)	Cook with lids on, use microwave for small amts. of food, only pre-heat for baked goods.
<input type="checkbox"/> stove, microwave, and coffee maker unplugged when not in use	
<input type="checkbox"/> signs/reminders to avoid running water unnecessarily	
<input type="checkbox"/> eco-friendly dishwashing detergent and cleaners	
<input type="checkbox"/> dishwasher run only when full	

See reverse for additional comments

OFFICE**Comments**

<input type="checkbox"/> CFL or LED lamps	
<input type="checkbox"/> adequate shading to prevent unwanted solar heat gain if applicable.	
<input type="checkbox"/> task lighting	
<input type="checkbox"/> daylight used effectively (i.e. work stations are close to windows)	Turn down/off lights when it is sunny.
<input type="checkbox"/> electronic devices and office equipment turned off and unplugged when not in use (computers/ printers/ coffee makers/ microwaves)	The energy appliances use when they are plugged in but not turned on (phantom load) accounts for 6% of energy used in US.
<input type="checkbox"/> ENERGY STAR appliances and equipment (copier, printers, computers, other)	
<input type="checkbox"/> use post-consumer recycled, chlorine-free office paper and envelopes (or FSC certified paper, Forest Stewardship Council)	
<input type="checkbox"/> paper-use guidelines to limit use and encourage efficient use/reuse (double sided copies, scrap paper for re-use, etc.)	
<input type="checkbox"/> office paper is recycled (after use of both sides)	
<input type="checkbox"/> newsprint and other paper is recycled	
<input type="checkbox"/> soy-based ink, refilled/recycled ink and toner cartridges	
<input type="checkbox"/> proper disposal of ink cartridges, batteries, computers, printers, copiers	
<input type="checkbox"/> junk mail reduction efforts & limit mailings	
<input type="checkbox"/> serve fair trade coffee & tea	
<input type="checkbox"/> provide healthy snacks	
<input type="checkbox"/> encourage re-usable mugs and water bottles	
<input type="checkbox"/> plants in office for beauty and air	

See reverse for additional comments

SANCTUARY**Comments**

<input type="checkbox"/> CFLs used where possible/applicable	
<input type="checkbox"/> adequate shading to prevent unwanted solar heat gain if applicable.	
<input type="checkbox"/> equipment (TVs, sound systems, computers) turned off when not in use	
<input type="checkbox"/> energy efficient ceiling fans with reverse motion option	
<input type="checkbox"/> decorative lighting used sparingly and/or controlled optimally	
<input type="checkbox"/> living flowers or plants on the altar to be kept or planted later	
<input type="checkbox"/> beeswax candles rather than (oil-based) paraffin wax candles.	
<input type="checkbox"/> local wine for communion	
<input type="checkbox"/> provide communion bread of whole grain, organic and locally grown.	
<input type="checkbox"/> fair trade palm fronds for Palm Sunday.	
<input type="checkbox"/> limit or eliminate use of paper for bulletins (re-use where possible)	
<input type="checkbox"/> green decorations for holidays.	
<input type="checkbox"/> worship outside in nature	
Other areas of opportunity or concern:	

SOCIAL HALL**Comments**

<input type="checkbox"/> CFL or LED lamps	
<input type="checkbox"/> adequate shading to prevent unwanted solar heat gain if applicable.	
<input type="checkbox"/> equipment (TVs, sound systems, computers) turned off when not in use	
<input type="checkbox"/> energy efficient ceiling fans with reverse motion option	
<input type="checkbox"/> healthy/ organic/ locally grown food items for snacks and meals	
<input type="checkbox"/> biodegradable plastic utensils & eco-friendly plates when disposables are required	
<input type="checkbox"/> fair-trade coffee & tea	
<input type="checkbox"/> share leftover food and compost food waste	
<input type="checkbox"/> post-consumer paper napkins and towels	
<input type="checkbox"/> reduce or eliminate styrofoam, plastic cups, and other disposable products	
<input type="checkbox"/> provide mug rack.	Encourage people to bring their own plates, cups & utensils to meals.
<input type="checkbox"/> provide ceramic plates and cups, glasses, and stainless-steel utensils	
Other areas of opportunity or concern:	

