

Interreligious Eco-Justice Network - CT's Interfaith Power & Light

Savings Through Energy Management (STEM) For This Old House of Worship

Objectives:

- To assist faith communities to be good stewards of the earth
- To identify ways to save energy and dollars in faith community buildings

STEM for This Old House of Worship program has four major components:

- a) Fifteen hours of instruction for participants from five or more faith communities
- b) Preparation and presentation of report to the Trustees of each faith community
- c) Establishment of an ongoing energy conservation/management program
- d) Provide resources for on-going projects and upgrades, including state incentives.

Session I - Introduction

Reasons to save energy
Overview of regional, national and global energy consumption
Non-renewable and renewable energy sources
Potential for saving energy and dollars and reducing CO2 emissions
Building survey and walk through
Calculation of savings in energy, fuel units, dollars and CO2

Session II - Building heat problems

Controls
Distribution system
Boiler/furnace
Domestic hot water problems
Calculation of savings in energy, fuel units, dollars and CO2

Session III – Lighting, Appliances & Motors

Calculation of savings in energy, fuel units, dollars and CO2

Session IV - Building envelope problems

Windows
Walls
Doors
Ventilation
Use of blueprints
Finding R & U values
Calculation of savings in energy, fuel units, dollars and CO2

Session V - Deciphering energy bills

Finding annual energy consumption (BTU/yr)
Finding BTU/ft2
Establishment of a system to monitor energy use
Reporting energy problems, recommendations and estimated savings
Sources of funding