Welcome to CHA's Environmental Webinar:

Going Green in Eldercare

Feb. 28, 2012 2 – 3:30 p.m. ET



A Passionate Voice for Compassionate Care

2012 by the Catholic Health Association of the United States

Going Green in Eldercare



Reflection for Today's Program

God, our Creator, You have given us the earth, and the sky and the seas. Show us the way to care for the earth, not just for today but for ages to come. Let no plan or work of ours damage or destroy the beauty of your creation. Send forth your spirit to direct us, to care for the earth and all creation. Amen.

The Cry of the Earth

A Pastoral Reflection on Climate Change by
The Irish Catholic Bishops' Conference



C)CHA

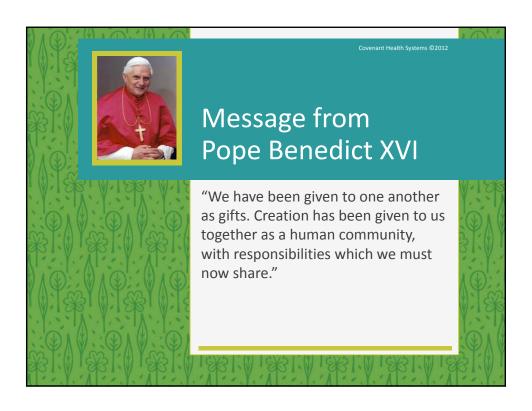
Your Presenter for Today's Program



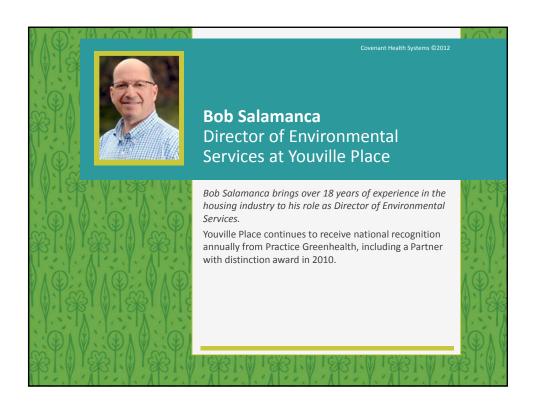
Nancy Mulvihill is vice president of Corporate Communications for Covenant Health Systems and also heads up their environmental committee.

She has been given many titles in her seven years of leading the committee, including "environmental nudge" and "mean green Nancy".





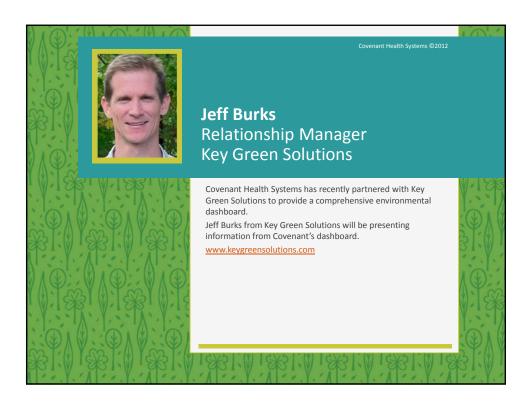


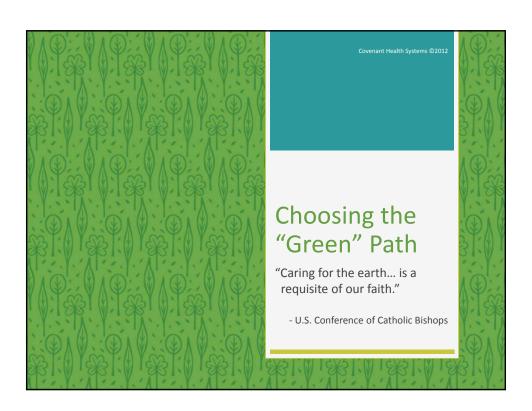














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Covenant Health Systems' Environmental Journey

- Why Covenant is presenting on "greening your elder care facility"
- Covenant's Greatest Environmental Achievement
 - 2004: Justifying going green to
 - 2007: Justifying NOT going green
- 1000 trees planted in Africa and 1000 in Haiti for receiving Practice Greenhealth awards for the past two years





Promote Your Achievements

Promotion of Practice Greenhealth awards

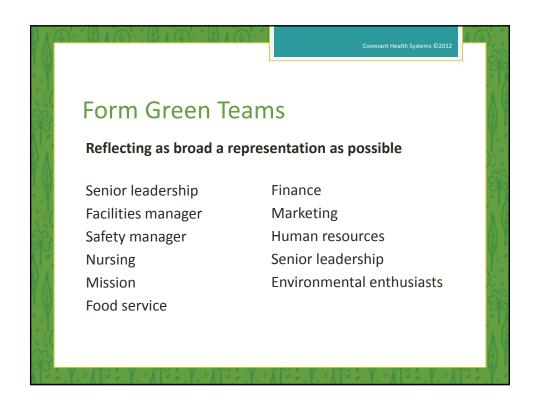
Youville Place talks about their greening initiative in the tours they give prospective residents

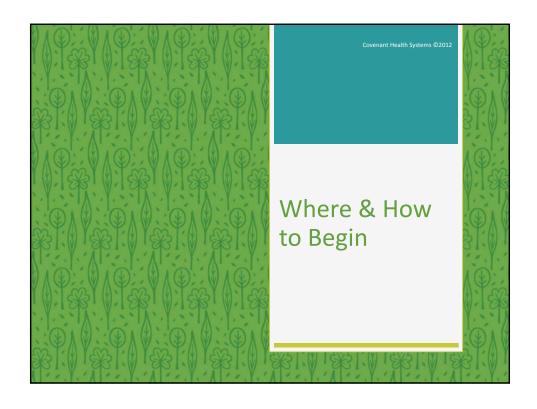
Placing awards earned at prominent places in facilities "be proud of accomplishments"

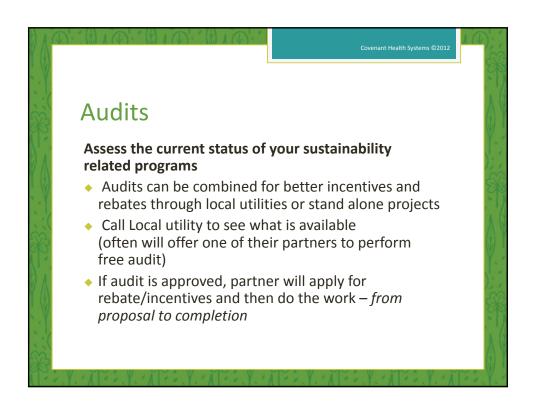
Dedication of co-gen at Youville Place

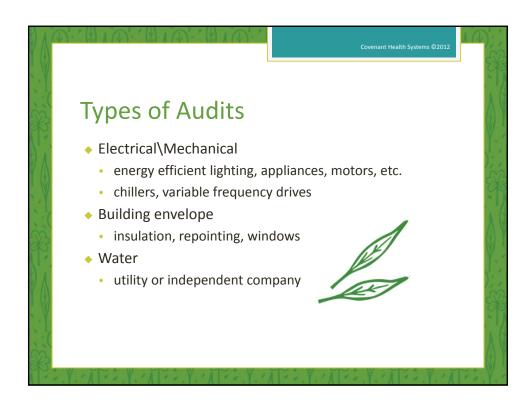














Low Hanging Fruit

Results noticed within a year

• Energy efficient light bulbs and ballast
• Rain sensors
• Light sensors
• New aerators on faucets
• Change sprayer heads in the kitchen dishwasher area
• Recycling program (paper, cardboard, etc.)
• Green cleaning chemicals

Become Mercury Free

Recycle fluorescent bulbs
Replace manual BP cuffs to digital
Thermometer exchange with residents
Thermometers in boiler room/digital
Medical thermometers to digital
Replace thermostats to digital
Adopted mercury free purchasing policies

Energy Saving Measures

Youville Place (from audit)

Installation of variable frequency drives on all heating and water pumps and cooling tower fans ROI: 2 years

Installation of energy efficiency controls on refrigerators and the walk-in freezer ROI: 2 years

Youville Place: Water

• New shower heads reduced water usage from 2.4 to 1.5 gallons per minute – annual savings of 498,000 gallons/year and \$5,000/year

• Replaced toilets with more efficient models

• Replaced more efficient chiller through Johnson Controls

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Energy Savings Measures

MI (from audit)

- Installed "Energy Miser" in vending machines (sensor)
 turns the machine off when not in use
- Relighting, re-ballasting and adding room motion sensors to control lighting
- Replaced all faucet aerators, showerheads and reduced use of food disposal to reduce water usage by 5%

ROI: 1.7 years

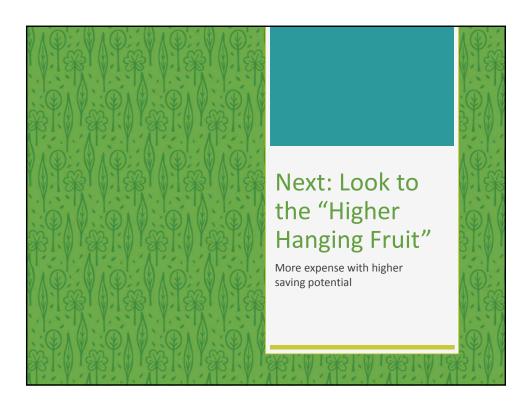
Carrage Hardy Carrage Garage

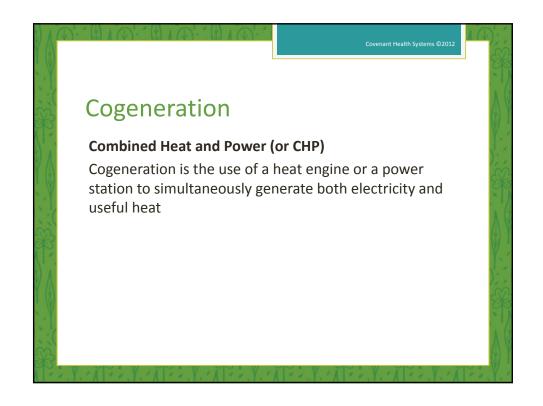
What Else?

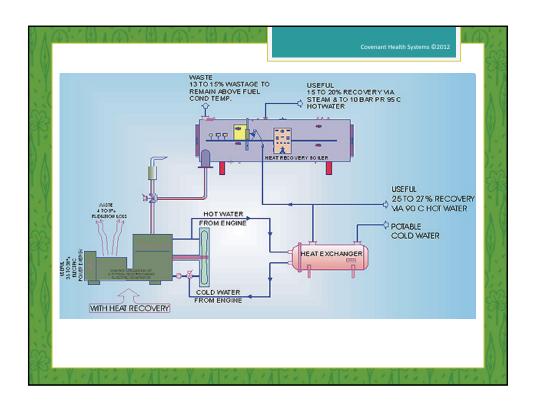
At Mary Immaculate

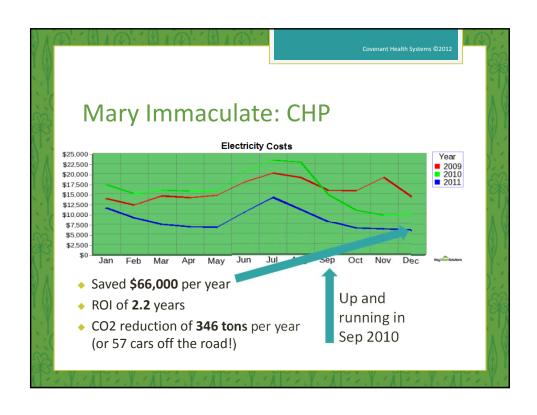
- Installation of flooring that does not have to be stripped and refinished
- Auto Scrubber resulted in 50% less water and chemical use, which reduces operational costs and improves air quality and environmental impact

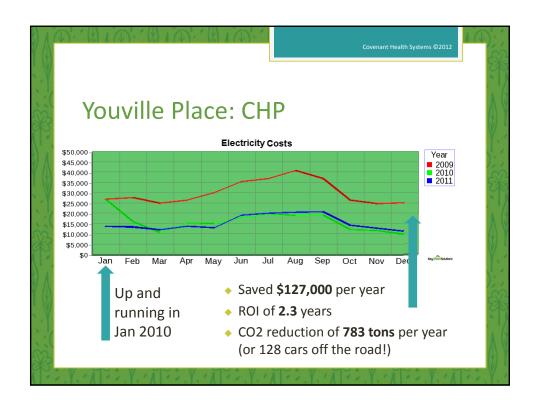
50% less water



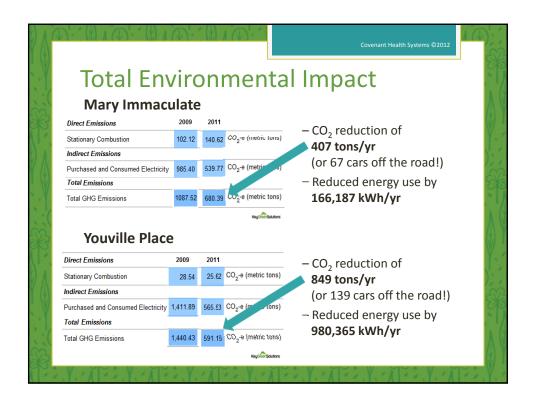


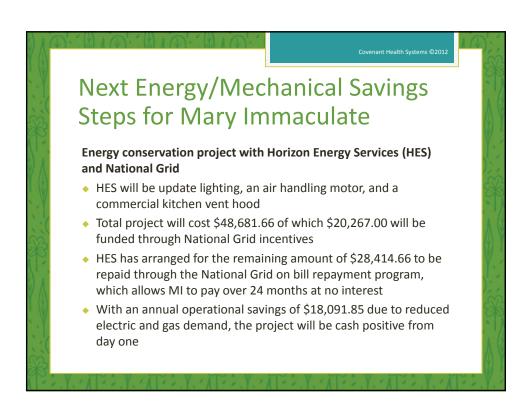














Revenue Streams

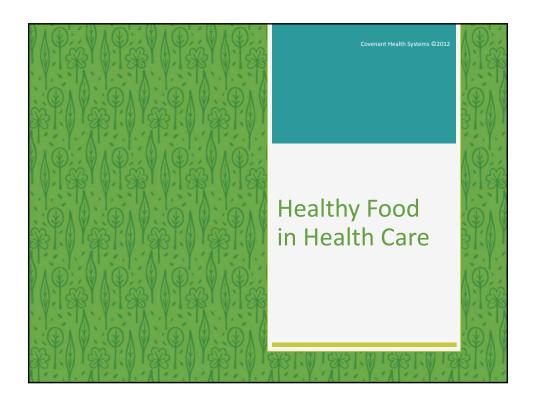
• Demand Response: EnerNoc www.enernoc.com
Chiefly provides demand response services that maintain real-time balance between electricity supply and demand. Its energy management services and software promote energy efficiency, reduce greenhouse gas emissions.

Combined revenue from Ener-noc over 2 years \$14,000

• Net Metering - Combined estimated revenue \$47,000/year

Net Metering

Net metering programs serve as an important incentive for consumer investment in on-site renewable energy generation. Net metering enables customers to use their own generation from on-site renewable energy systems to offset their consumption over a billing period by allowing their electric meters to turn backwards when they generate electricity in excess of their demand, enabling customers to receive retail prices for the excess electricity they generate.



















Earth Day Activities: April 22

Involve residents/Involve employees

Rx take back program

Mass Save brought in energy efficient packages for employees to purchase at reduced costs

Plant trees

Mary Immaculate started composting

Additional Suggestions

Place "table tents" on patient trays or in dining room to share sustainability message

Sponsor a "lunch and learn" to inform staff of the successes that your facility has accomplished in the area of "going green"

Have an art contest made from recycled materials

Collect eye glasses, cell phones, etc. to donate www.cellsforsoldiers.com

Office supply swap to share no longer needed supplies



Greening Opportunities in Offices

Buy recycled paper
Reduce printing; back to back
Use electronic media, when possible, newsletters, annual reports, etc.
Dispose of e-waste (and everything) in an environmentally correct manner
Guide to local resources including recycling centers, how to recycle, pollution prevention and how help protect the environment: www.Earth911.com
No bottled water
Turn off lights and computers(!)

Portfolio Manager and Energy Star



- Senior care communities are now eligible to receive an energy performance score by using EPA's online energy measurement and tracking tool, Portfolio Manager, and to earn the ENERGY STAR certification for superior energy performance
- Senior care community applies to all buildings in a multi-building campus setting or a stand-alone facility that are designed to house and provide care and assistance for elderly residents – including assisted living, skilled nursing, and select continuing care retirement communities www.energystar.gov

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Dreaming for the Future

- Solar energy
- Purchasing all antibiotic-free meats/chicken
- Harvesting rain water
- Healing gardens
- No pesticide
- Balanced menus challenge
 - 20% reduction in meat and poultry purchases
- Healthier vending machine choices



Resources

Catholic Health Association: www.chausa.org
Join and apply for practice Greenhealth Award: www.practicegreenhealth.org

Key Green Solutions: www.keygreensolutions.com
Senior care communities are now eligible to receive an energy performance: www.energystar.gov/seniorcare
Healthcare without harm: www.noharm.org
Conferences: www.foodmed.org and www.cleanmed.org

Resources

• The Green Guide for Health Care is a best practices guide for healthy and sustainable building design, construction, and operations for the healthcare industry: www.gghc.org
• Key Green Solutions: www.keygreensolutions.com
• Catholic Coalition for Climate Change: www.catholicclimatecovenant.org
• Center for Health Design: www.healthdesign.org
• Global Reporting Initiative: www.globalreporting.org

