

John Kendle  
Director of Operations, Support Services

June 2013



**St. Joseph's**  
**Medical Center**<sup>™</sup>

A Dignity Health Member



After opening our doors on December 21, 1899, with 25 beds, our facility has grown to be a not-for-profit, fully accredited, regional hospital with 354 beds with a physician staff of over 400, and more than 2,400 employees.



We are the largest hospital, private employer, and charitable organization in Stockton and San Joaquin County. Our centers of excellence include heart, cancer, and women and children's services, including neonatal intensive care (NICU).

# Present Initiatives

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- Paper Recycling
  - Shred-It
  - FY 12 recycled 464.54 tons
- Reusable Sharps Containers
  - Stericycle
  - FY 12 prevented 21.72 tons of plastic from going into the landfill
- Shrink Wrap Recycling
  - Shred-It
  - Recycled .46 tons
- Batteries Recycling
  - FY 12 recycled 2.09 tons

# Present Initiatives

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- Pens and Marker's Recycling
  - Terracycle
  - Funds from the post-consumer products will be donated to our Foundation office.
- Green/Food Waste Recycling
  - Allied Waste
  - FY 12 Green Waste recycled 15.21 tons / Food Waste recycled 93.60 tons
- Used Cooking Oil
  - Darling International
  - FY 12 recycled 3.49 tons
- Scrap Metal Recycling
  - Local recycling company
  - FY 12 recycled 5.67 tons

# Present Initiatives

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- Computer Equipment Recycling
  - Redemtech
  - FY 12 recycled 12.07 tons
- Re-processed Medical Devices
  - Ascent HealthCare Solutions/Stryker's
  - FY 12 reduced 3.05 tons of Medical devices from going to the landfill
- Cardboard Recycling
  - Allied Waste
  - FY 12 recycled 112.14 tons
- Medical Supply Donation
  - MedShare International
  - FY 12 recycled 2.11 tons

# Data Tracking Tool

MONTH	Adjusted Patient Days from Jessica Curvas 6/23/11	Solid Waste lbs.	Medical Sharps lbs.	Regulated Medical Waste lbs.	Reusable Medical Sharps/Containers lbs.	Paper lbs.	Cardboard lbs.	Pallets lbs.	Glass Fluorescent Tubes lbs.	Green Waste lbs.	Food Waste lbs.	Batteries lbs.	Petroleum lbs. gals.	Used Cooking Oil lbs.	Scrap Metal lbs.	Blue Wrap lbs.	Shrink Wrap lbs.	X-Ray Film lbs.	Computer Equipment lbs.	Re-processed Medical Devices lbs.	Recycled Construction Waste lbs.	Construction Waste lbs.	MedShare Donation lbs.	
Jul-10	10,538	144,300	5,807	1,091	4,755	86,981	20,420	10,080	0.0	1,860	18,000	271	0	0	1,000	0	0	73	0	150	376	-	-	
Aug-10	10,719	150,420	5,291	580	4,997	91,099	21,780	12,600	0.0	2,160	19,650	420	0	0	1,000	0	0	80	30	7,439	483	-	-	
Sep-10	10,836	147,620	4,668	1,084	4,217	80,271	20,080	10,080	0.0	2,320	24,600	480	0	0	1,520	0	0	88	50	373	539	-	-	
Oct-10	10,996	148,220	5,819	907	4,973	88,417	25,140	12,600	360.0	2,080	19,800	0	2,423	350	1,900	2,387	0	160	750	1,119	404	-	-	
Nov-10	9,981	139,260	2,114	936	1,915	88,884	19,900	10,080	0	4,200	19,800	1,010	0	0	800	0	0	113	0	15	361	-	-	
Dec-10	10,834	154,060	604	705	482	86,846	22,860	10,080	0	4,440	21,150	700	0	0	850	0	0	104	0	600	406	-	872	
Jan-11	11,796	157,500	4,703	780	3,684	78,092	21,880	12,600	0	9,500	18,900	620	0	0	900	0	0	48	0	101	362	-	-	
Feb-11	10,370	143,300	4,922	1,101	3,726	71,511	19,960	10,080	271	3,800	17,100	470	0	0	700	3,037	0	64	10	0	463	-	-	
Mar-11	11,367	166,400	5,318	881	3,988	82,343	19,980	10,080	0	5,120	20,700	490	0	0	1,250	4,237	0	104	0	0	502	-	712	
Apr-11	11,023	134,020	5,121	1,094	3,904	79,727	20,080	10,080	0	3,600	18,900	470	0	0	100	17,080	0	72	0	2,938	379	-	-	
May-11	10,539	125,620	5,083	985	3,700	80,163	20,740	12,600	115	0	19,800	900	0	0	1,100	0	0	96	10	0	323	-	-	
Jun-11	9,463	149,260	3,907	944	3,171	68,096	17,920	10,080	0	2,560	19,800	480	0	0	200	0	0	64	0	0	400	-	900	
<b>Total</b>	<b>128,463</b>	<b>1,759,990</b>	<b>53,406</b>	<b>11,141</b>	<b>43,512</b>	<b>983,439</b>	<b>250,640</b>	<b>131,040</b>	<b>750</b>	<b>41,640</b>	<b>238,200</b>	<b>6,399</b>	<b>2,423</b>	<b>350</b>	<b>11,300</b>	<b>26,748</b>	<b>0</b>	<b>1,064</b>	<b>859</b>	<b>12,789</b>	<b>4,995</b>	<b>-</b>	<b>-</b>	<b>3,320</b>
tons		879.99	26.70	5.57	21.76	491.72	125.32	65.52	0.36	20.82	119.10	3.17	1.21		5.66	13.37	0.00	0.53	0.43	6.39	2.50	0.00	0.00	1.66

## POUNDS PER ADJUSTED PATIENT DAY

TYPE	QTR 1	QTR 2	QTR 3	QTR 4
Solid Waste	13.783	13.88	13.93	13.18
Medical Sharps	0.491	0.27	0.45	0.46
Regulated Med. Waste	0.086	0.08	0.08	0.10
Sharps Containers	0.491	0.268	0.446	0.436
Paper	8.066	8.30	6.92	7.36
Cardboard	1.941	2.13	1.84	1.89
Pallets	1.021	1.03	0.98	1.06
Fluorescent Tubes	0.000	0.01	0.01	0.00
Green Waste	0.198	0.34	0.55	0.20
Food Waste	1.940	1.91	1.69	1.89
Batteries	0.037	0.05	0.05	0.06
Petroleum	0.000	0.076	0.00	0.00
Used Cooking Oil	0.110	0.112	0.08	0.05
Scrap Metal	0.000	0.075	0.22	0.35
Blue Wrap	0.000	0.000	0.00	0.00
Shrink Wrap	0.007	0.012	0.01	0.01
X-Ray Film	0.002	0.024	0.00	0.00
Computer Equip.	0.248	0.056	0.04	0.04
Rep. Med. Devices	0.043	0.037	0.040	0.036
MedShare Donation	0.026	0.027	0.021	0.029
<b>TOTAL lbs/APD</b>	<b>28.463</b>	<b>28.67</b>	<b>27.32</b>	<b>27.33</b>

\*\* There is an increase in SJMC off-site paper pick up from Shred-It

FY08 AVG	FY09 AVG	FY10 AVG	FY11 AVG
14.689	13.224	13.323	13.694
0.660	0.629	0.519	0.415
0.496	0.217	0.071	0.087
0.660	0.629	0.519	0.415
2.605	6.182	8.257	7.663
1.733	1.885	1.977	1.902
0.977	0.996	1.028	1.021
0.009	0.009	0.006	0.006
0.165	0.312	0.268	0.321
	0.055	1.454	1.856
0.071	0.018	0.036	0.049
0.020	0.019	0.033	0.019
0.048	0.068	0.074	0.088
0.057	0.069	0.082	0.211
0.012	0.005	0.005	0.000
0.025	0.005	0.007	0.008
0.057	0.002	0.006	0.007
0.051	0.127	0.079	0.095
0.094	0.033	0.293	0.039
0.000	0.000	0.000	0.026
22.339	24.484	27.997	27.946

To Date Fiscal Year 2011	Waste Lbs.	3,589,585
	Avg./Month	298,632
	Waste/Tons	1,792
	Lbs. recycled	1,759,008
	Tons recycled	880
	% recycled	49%

# Encouraging & Informing Staff



*SJMC Scorecard  
for 2007*

*Did you know...  
SJMC is currently recycling  
over 30% of our overall wastestreams.*

*In 2007 SJMC recycled...*

- 159.1** tons of paper
- 1,113,998** gallons of water
- 9,549** lbs of air pollution
- 652,484** kilowatts of energy
- 477** cubic yards of landfill space
- 15,914** gallons of gasoline
- 4,700** lbs of batteries
- 1,770** lbs of blue wrap
- 1,795** lbs of shrink wrap



*St. Joseph's  
Medical Center*

**JULY** →

**SEPTEMBER**

**2008**

*1<sup>st</sup> Quarter scores for  
SJMC FY 09...*

- 93.52** tons of paper
- 116** lbs of shrink wrap
- 154** lbs of blue wrap
- 556** lbs of batteries

*Estimated Resources Saved...*

- 1,589** Monterey pine trees
- 381,287** kilowatt hours of energy
- 286** cubic yards of landfill space
- 650,254** gallons of water
- 54,897** lbs of air pollution
- 43,300** gallons of gasoline

## Encouraging & Informing Staff

# St. Joseph's Medical Center January - December 2008

SJMC Recycled 278.68 tons of paper

### Estimated Resources Saved

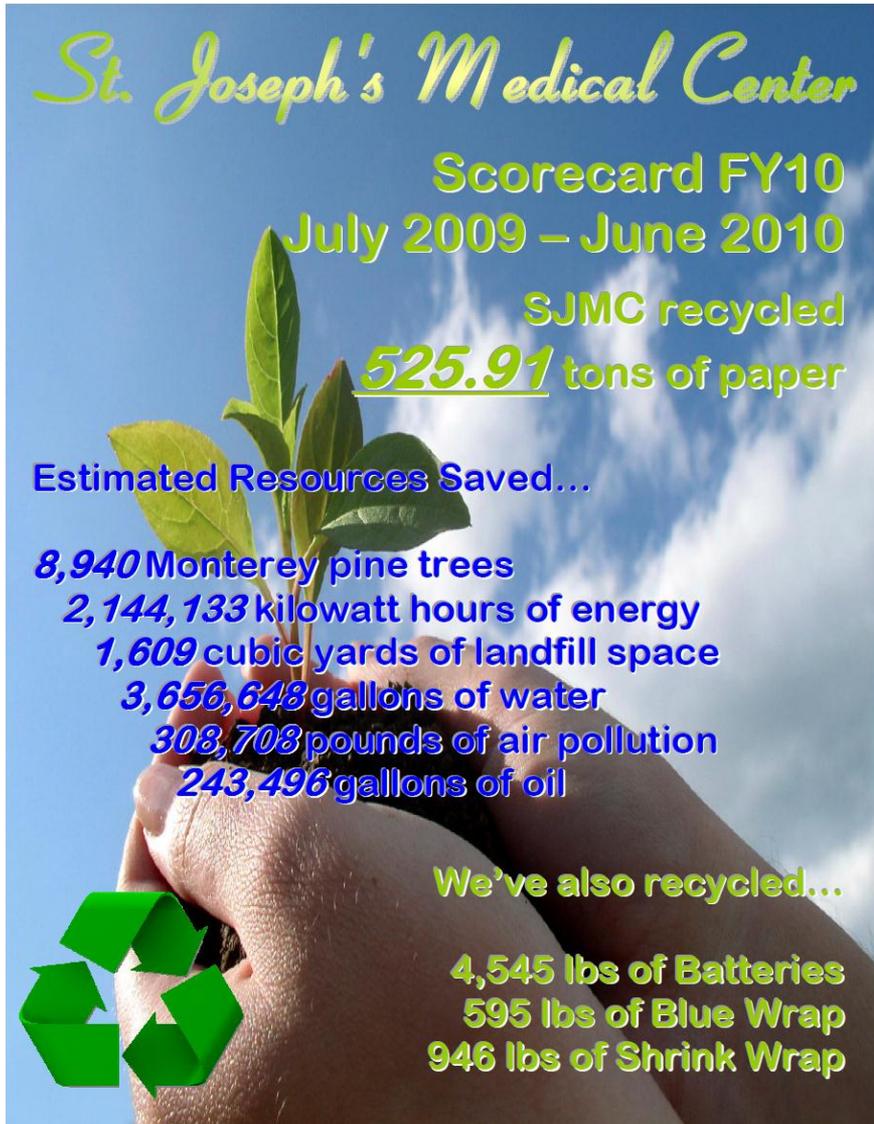
4,682 Monterey pine trees  
1,122,928 kilowatts of energy  
842 cubic yards of landfill space  
1,915,064 gallons of water  
161,677 lbs of air pollution  
127,524 gallons of gasoline

### We also recycled...

4,806 lbs of batteries  
1454 lbs of blue wrap  
2,114 lbs of shrink wrap

*Thank you for thinking green!*

# Encouraging & Informing Staff



*St. Joseph's Medical Center*

**Scorecard FY10**  
**July 2009 – June 2010**

**SJMC recycled**  
**525.91 tons of paper**

**Estimated Resources Saved...**

- 8,940** Monterey pine trees
- 2,144,133** kilowatt hours of energy
- 1,609** cubic yards of landfill space
- 3,656,648** gallons of water
- 308,708** pounds of air pollution
- 243,496** gallons of oil

**We've also recycled...**

- 4,545 lbs** of Batteries
- 595 lbs** of Blue Wrap
- 946 lbs** of Shrink Wrap



**EARTH DAY**

**St. Joseph's Medical Center**

**Earth Day Event**  
May 15, 2012  
11 a.m. – 2 p.m.  
Cafeteria Patio

## Did you know?

- In the past 4 years, SJMC has recycled 1599.71 tons of paper?
- SJMC recycles 49% of its overall waste stream?
- SJMC has its own vermacomposting program to create compost for the hospital grounds?
- SJMC has a 3800 sq ft Community Garden with all of the proceeds going out to the community?

Please stop by the different booths at the recycling fair for fun and prizes.

Allied Waste ♦ Shred-It  
Encompass ♦ Stericycle

## Attention! Attention!

Onsite document shredding services for St. Joseph's employee. Limit 6 boxes per employee.

Reduce, Reuse, Recycle



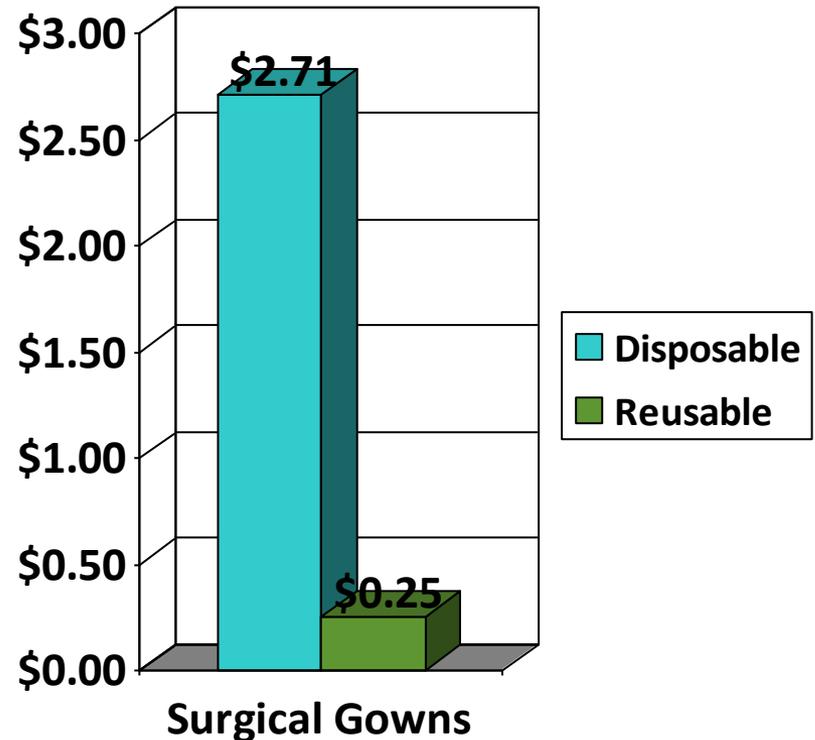


## On-Site Laundry

- St. Joseph's Medical Center's Laundry Department processes over 3 million pounds of laundry annually.

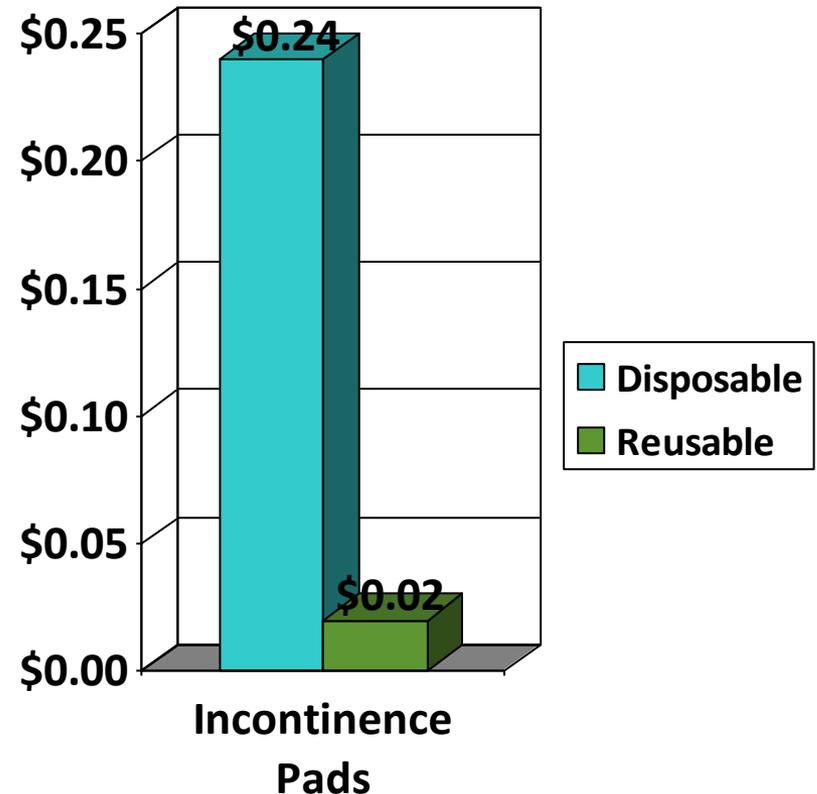
# Surgical Gowns

- Total cost savings of \$ 153,504 annually
- Utilize 62,400 surgical gowns annually
- Reduce the impact on the local landfill by 61,750 gowns annually by using reusable gowns.



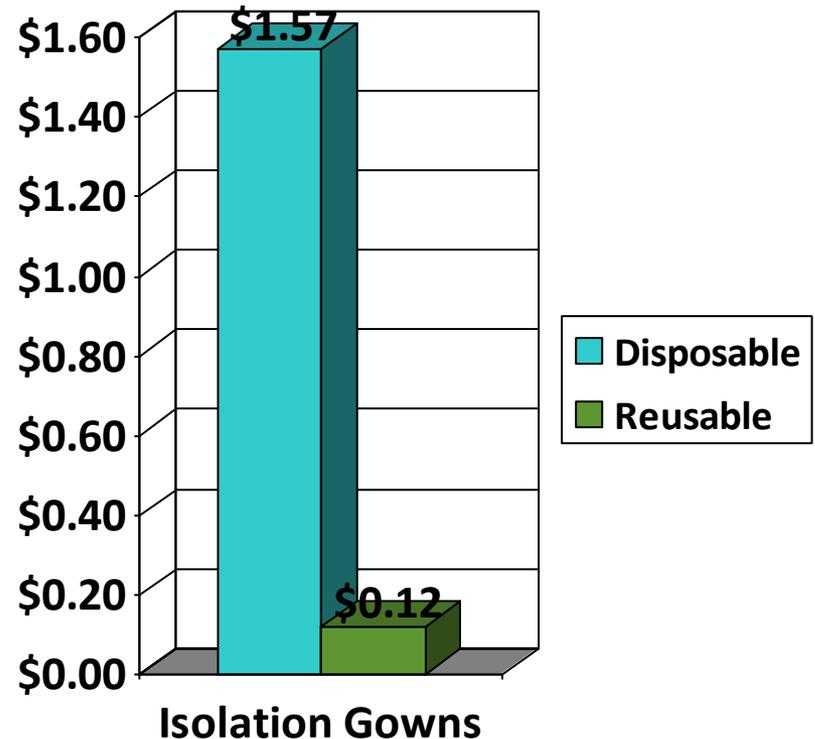
# Incontinence Pads

- Total cost savings of \$ 50,820 annually
- Utilize 231,000 incontinence pads annually
- Reduce the impact on the local landfill by 230,340 incontinence pads annually by using reusable pads.

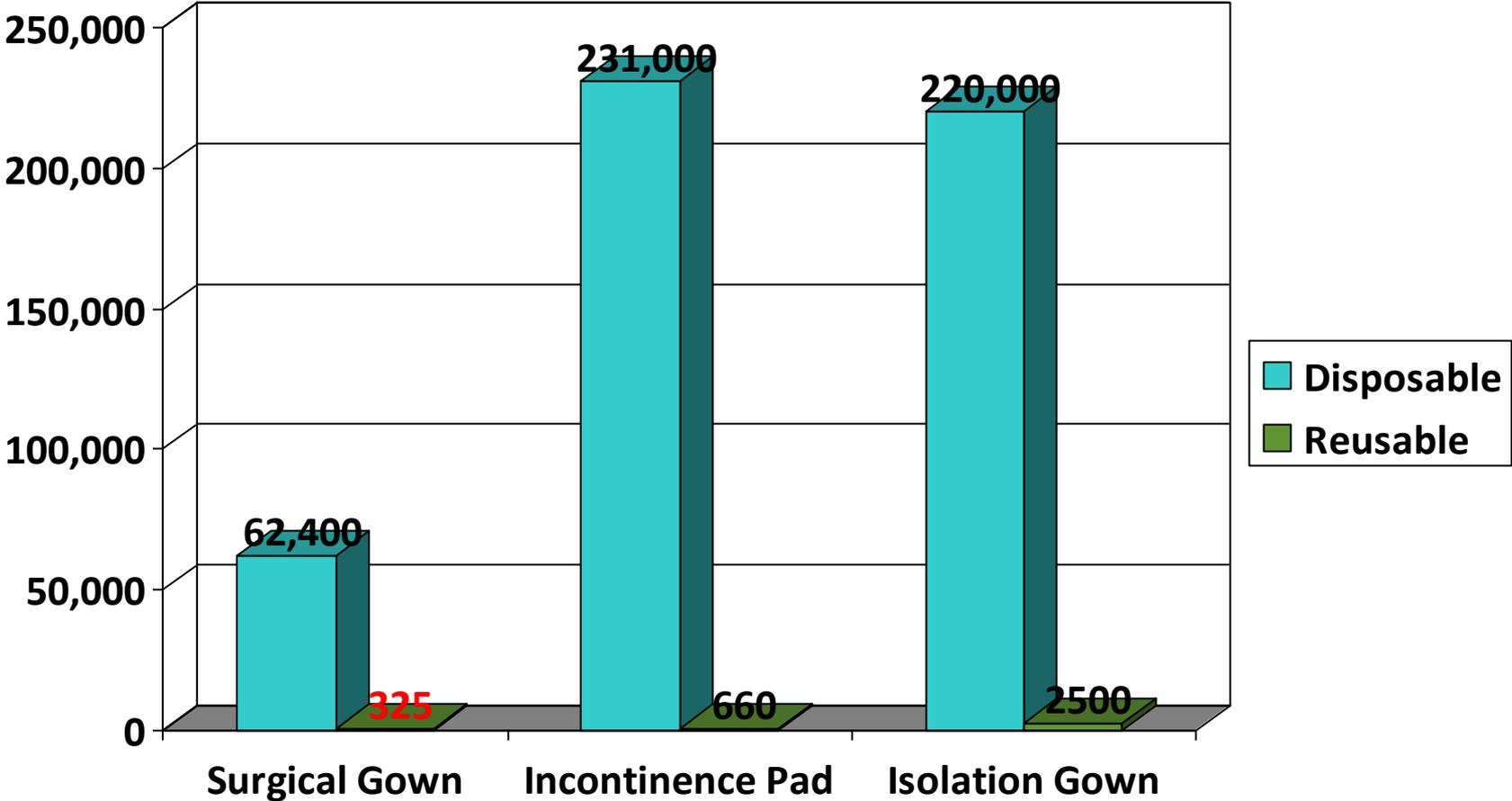


# Isolation Gowns

- Total cost savings of \$ 319,000 annually
- Utilize 220,000 isolation gowns annually
- Reduce the impact on the local landfill by 217,500 isolation gowns annually by using reusable gowns.



# Impact on Local Landfill

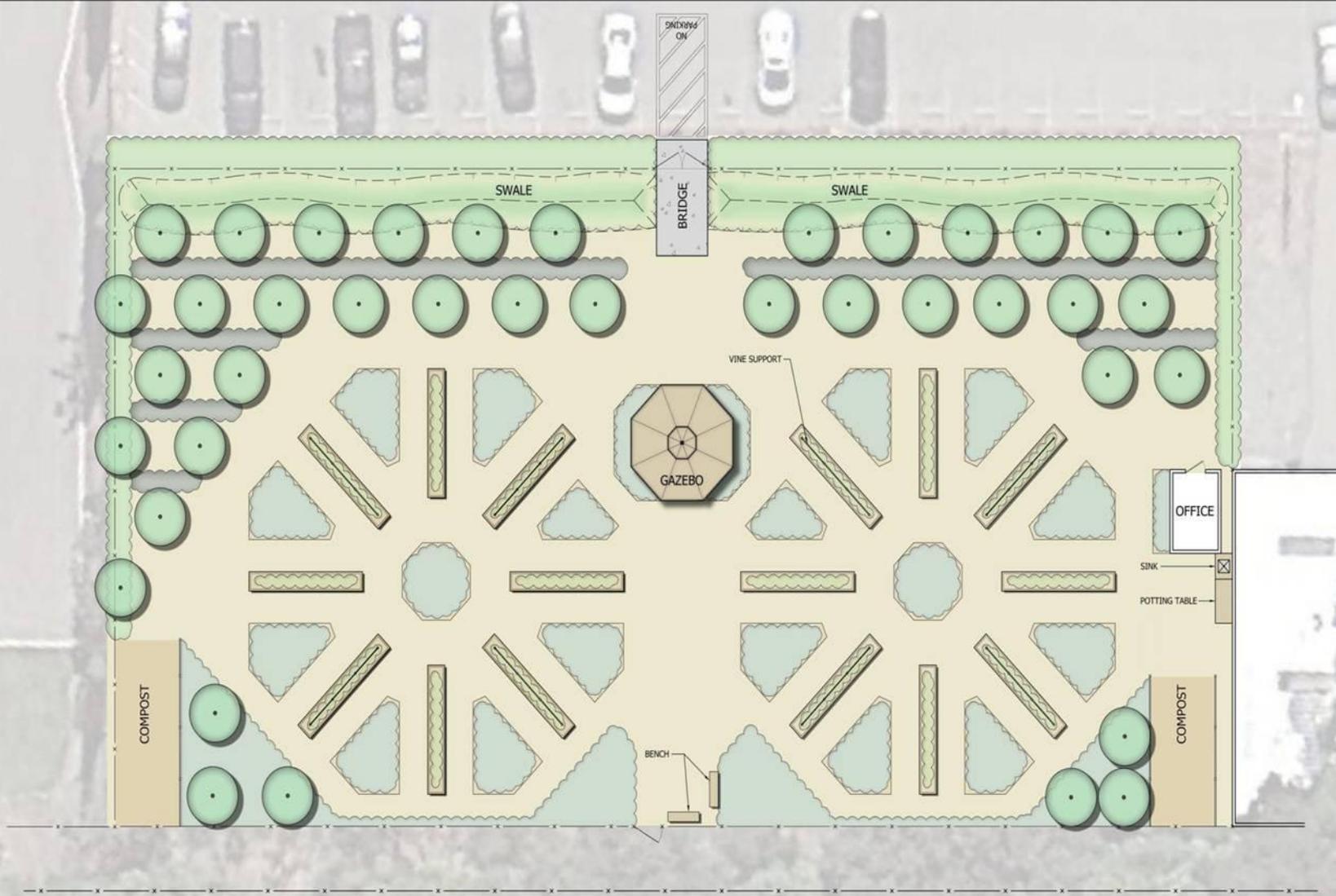


# Community Garden

## Let the fun begin...

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# ST. JOSEPH'S HOSPITAL

## Jerry Roek Memorial Garden

Illustrative Plan

SCALE: 1/8" = 1'-0"



2510 N California St, Stockton, CA 95204



THE OFFICE OF  
**JEFFREY F. GAMBONI**  
 LANDSCAPE ARCHITECT 2702  
 3012 PACIFIC AVENUE  
 STOCKTON 95204  
 209 948 8335

# Community Garden

## Let the fun begin...

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## Let the fun begin...

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## Let the fun begin...

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# Community Garden

## Let the fun begin...

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# Community Garden

## Let the fun begin...

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# Our Masterpiece

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Community Garden

# Fruits of the Labor

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# Fruits of the Labor

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# Fruits of the Labor

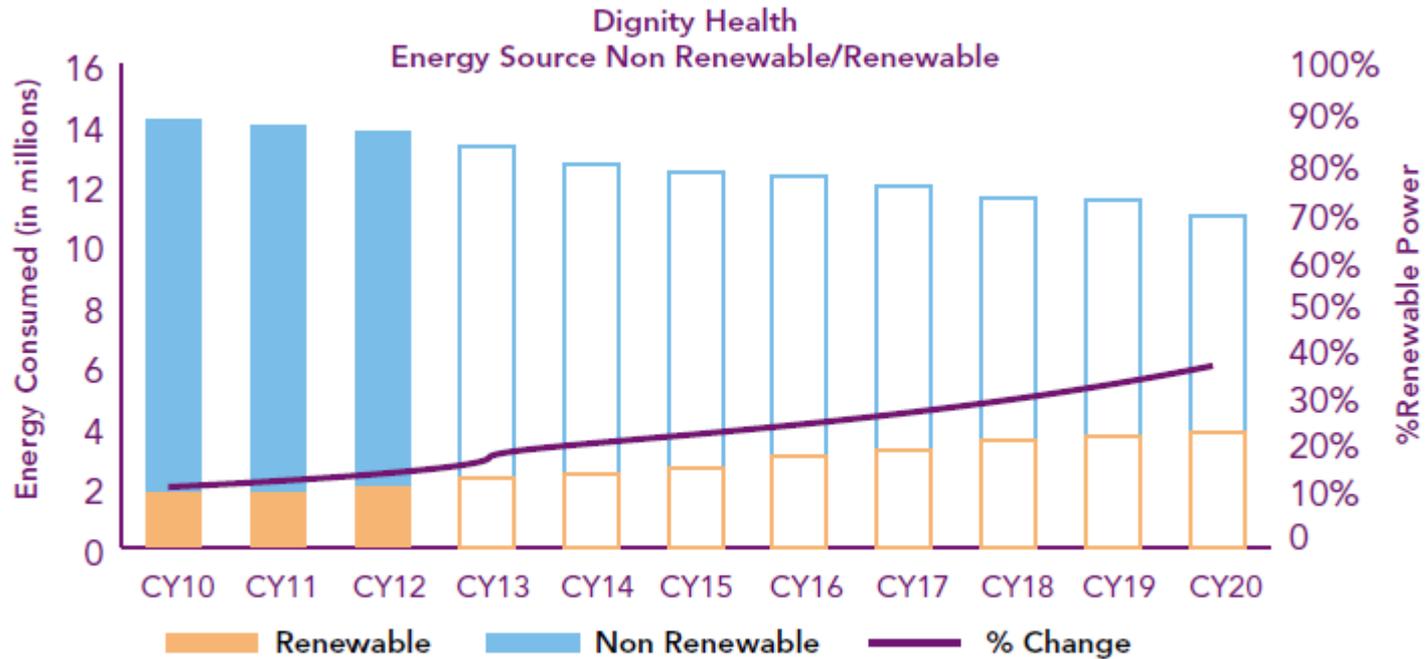


# Dignity Health's 2020 Energy Efficiency & Renewable Goals

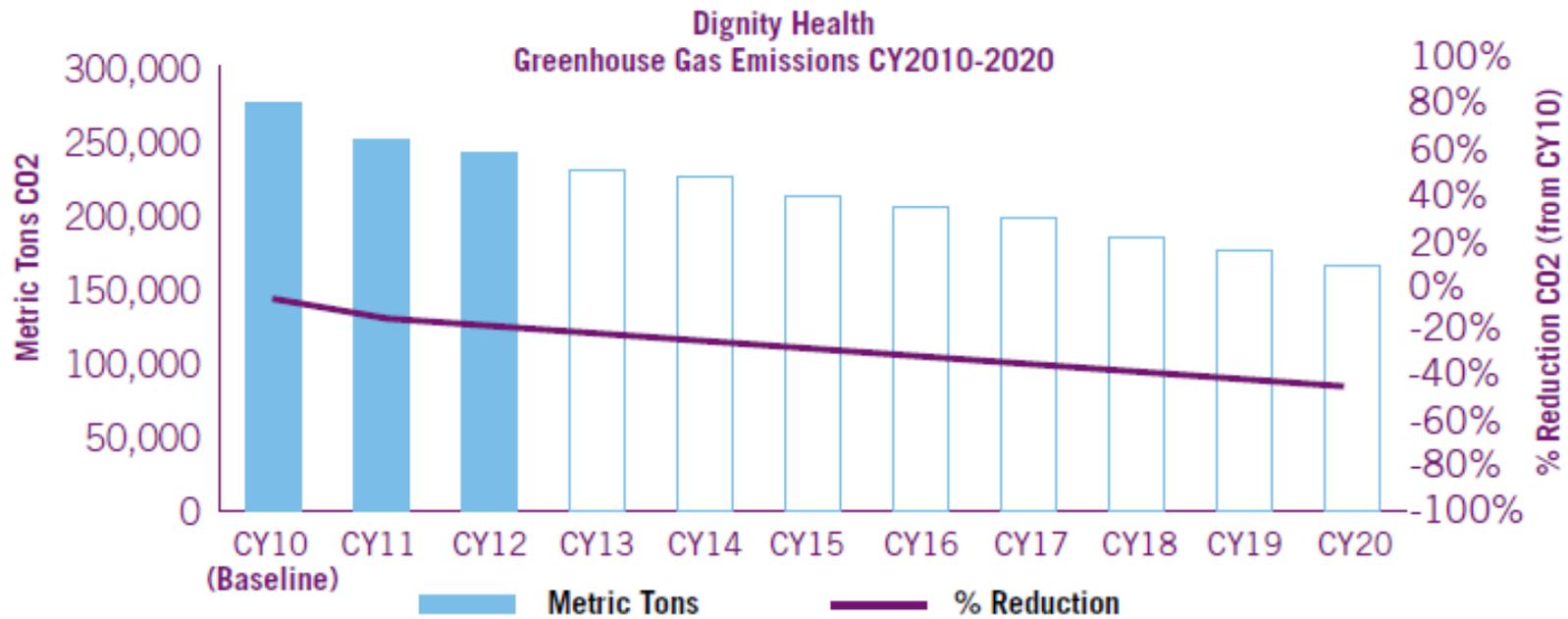
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- Decrease in system wide energy consumption
- Inaugurated quarterly reporting on Dignity Health's energy efficiency and renewable goals.
  - Reduced system wide energy intensity in existing buildings by 2.2% per year; 20% cumulative by CY2020
  - Increase use of renewable energy sources to 35% of total annual energy consumption by CY2020
  - Reduce Greenhouse gas emissions by 40% by 2020
  - Include economically viable renewable energy sources in new buildings.

# Energy Source

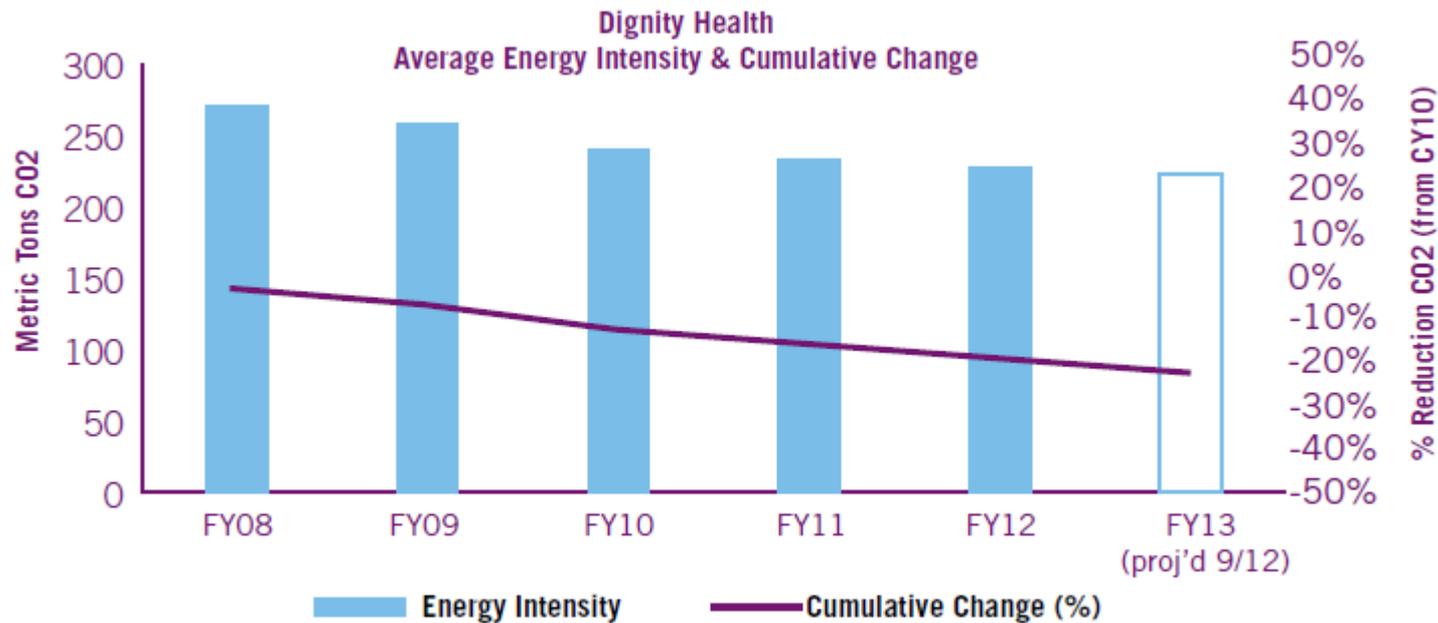


# Greenhouse Gas Emissions



# Historical Energy Use

- 2.5 % decrease between FY 2011 and FY 2012
- 16.1% cumulative decrease from FY 2008- FY 2012



# Energy Efficiency Program

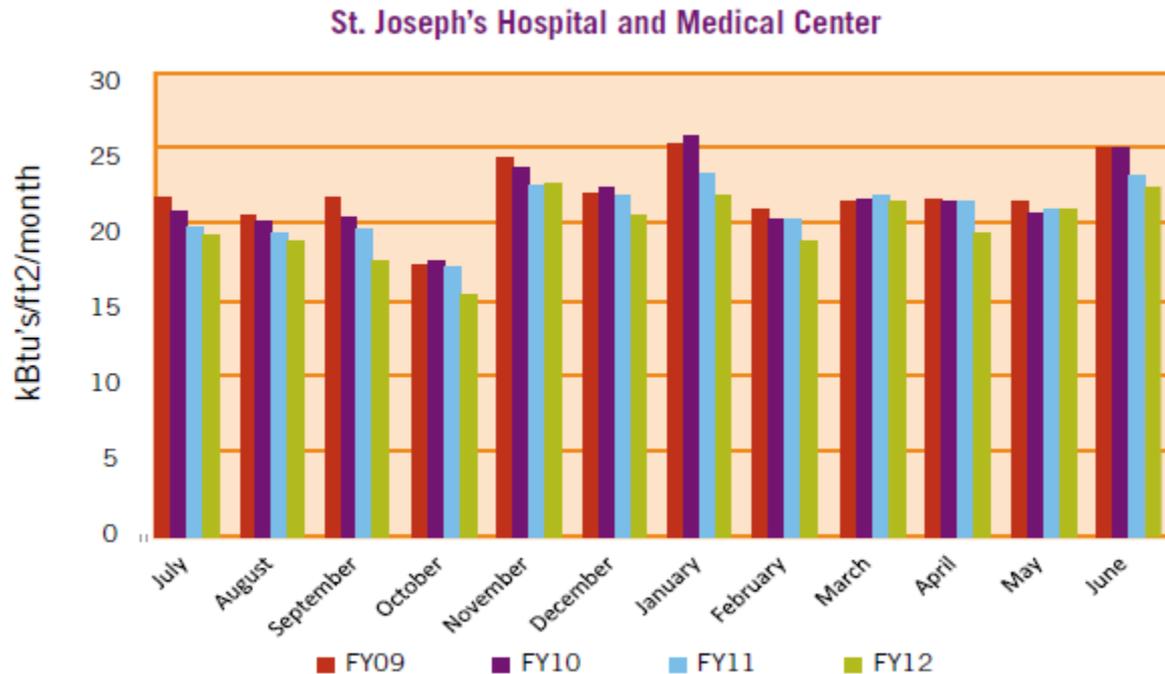
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## Three Phases

1. Operation Energy Efficiency Program
2. Capital Energy Conservation Program
3. Renewable Energy Program

# Operation Energy Efficiency Program

•St. Joseph's Medical Center & Hospital is 12.6 % below energy benchmark



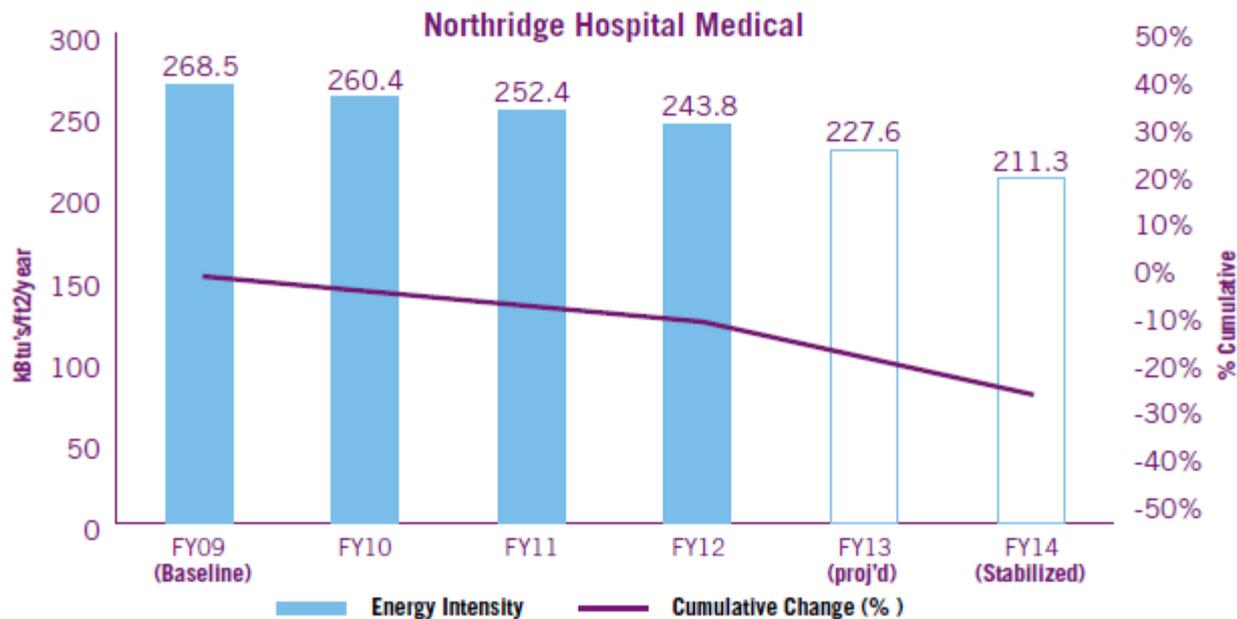
## Energy Costs & Environmental Benefits

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- Energy reduction have ranged between 5% and 22% of the hospital's total energy consumption at the 23 hospitals where operational energy efficiency programs have been implemented.
- Annual Cost Savings- \$368K
- Electric Reduction- 4,930 MWh's
- Natural Gas Reduction- 665k therms
- CO2 Reduction- 6.376 metric tons
- Equivalency- 1,210 automobiles drive 15K miles per year @ 25 MPG

# Capital Energy Conservation Program

- 4-year program began in FY 2011 is expected to reduce energy consumption by 21.3% once fully implemented



## Energy Cost & Environmental benefits

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- Annual cost savings-\$234K
- Electric reduction-1,552 MWh's
- Natural gas reduction-46K therms
- CO2 reduction- 734 metric tons
- Equivalency- 140 automobiles drive 15K miles per year @ 25 MPG

# Renewable Energy Program

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- Mercy Elk Grove was designed and constructed using energy efficient technologies that includes:
  - A 197kW solar array to offset approximately 35% of the electrical consumption
  - Integrated into the parking canopies which also provides covered parking for approximately 80 automobiles
    - To date, system has produced 251K kWh
    - Reduced CO2 emissions by 180 tons
    - Saved over 20,000 gallons of gasoline

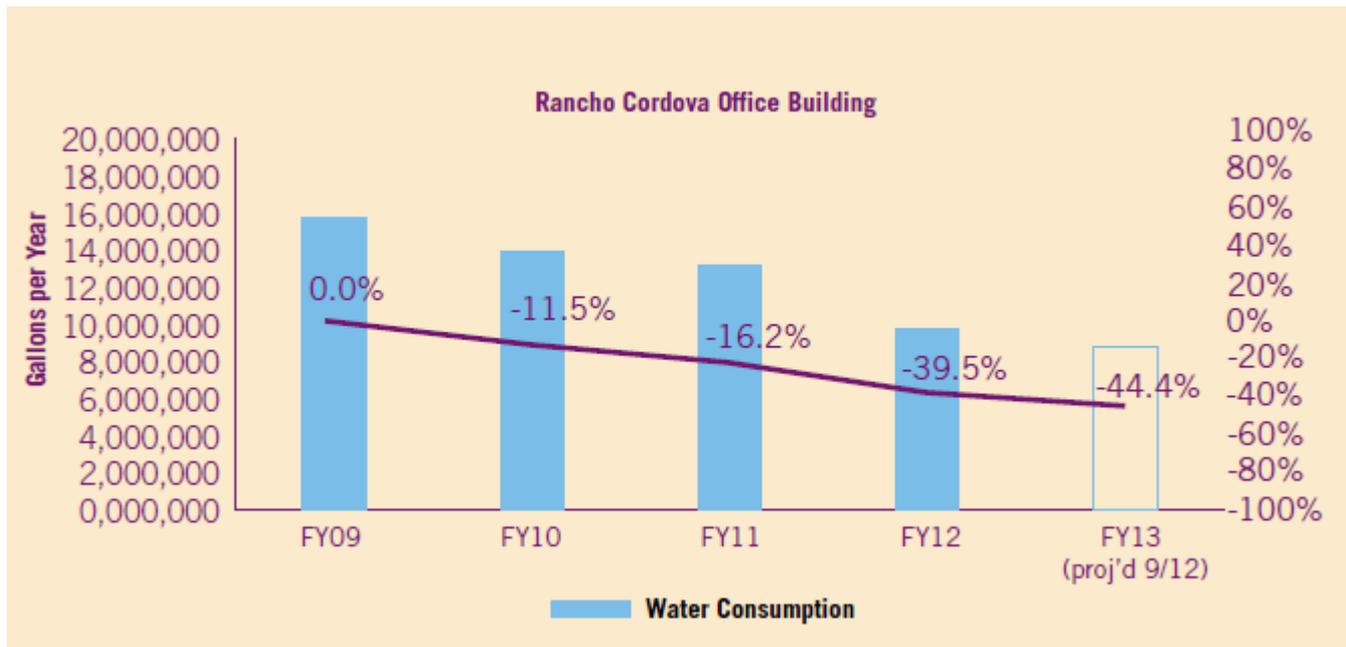
## Water Conservation

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- Implementing improved water reporting system beginning in FY 2014
- Cumulative reduction in usage of 8.8% from FY 2008 through FY 2012
- St. Joseph's Hospital (Phoenix, AZ) installed 76 waterless urinals- reduced consumption by 1.8M gallons/yr.
- Glendale Memorial Hospital and Health Center modernized their cooling towers- reduced 5.4M gallons/yr.
- Northridge Hospital Medical Center modernized their cooling towers-reduced 4.8M gallons/yr.

# Water Conservation

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## Water Savings Highlights

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- Project Cost- \$17,860
- Rebates/Incentives- \$12,280
- Net Cost-\$5,580
- Annual Savings-\$7,954
- Simple Payback- 8.4 months
- Annual Water Savings- 6.2M Gallons

Thank you

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