Contributions by KIMS In
Energy Conservation and Management
During the year 2011-2014
Energy Audits

- We are doing energy Audits in every three years.

- All recommendations are seriously considered and action taken.

- Energy Audits are done through M/s OTTOTRACTIONS, Empaneled Accredited Energy Auditor of BEE & EMC
Major Energy Conservation Activities

- Incinerator of 100 kg/hr installed to handle the Waste
- Installation of low energy lighting in Phased manner
- Bio gas plant of 45 cu m/day installed and gas used for cooking
- New Led Lights with timers fitted in street lights
- LED lights for exit signs installed
- 2 X DG's Synchronised with PLC
- 15W night Lamp replaced with 3W skirting Light
- OT Procedure lights replaced with LED (4 OT's)
- Motion Sensor tube lights are fitted in stairs
Major Energy Conservation Activities

• Replaced tube lights in 5 Passenger lifts with energy efficient LED light
• Replaced DOL starters with star delta starters for the chiller pumps.
• Installed LED lights in the renovated Holistic medicine, Liver ICU, 2nd reception, pharmacy area and 3rd level corridors
• Signage’s replaced with led lights in the main buildings
• Two WOK Machines with oil heating systems installed for cooking.
• 4 X AHU's replaced in the Operation Theaters
• Pneumatic pressure pumps installed for pumping drinking water
Major Energy Conservation Activities

- Replaced all old tube lights with copper choke by electronic type
- Heat extractor Provided to reduce heat in the plant area.
- Ring main system of water pipe is installed around the hospital.
- Old Refrigerators being replaced with 5 star labeled Eco friendly refrigerators in a Phase manner.
- Inverter type Air conditioners installed in the place of Old split A/c's.
- Kims is Preparing for GreenMark Accredition,-First of its kind in India Predominantly for Energy Saving Measures.
## Investments and Savings

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Major Projects</th>
<th>Qty</th>
<th>Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>New Biogas Plant 45 m cub /Day</td>
<td>1</td>
<td>80215</td>
</tr>
<tr>
<td>2</td>
<td>2 DG 500 Kva Synch with New PLC Panel</td>
<td>2</td>
<td>6000</td>
</tr>
<tr>
<td>3</td>
<td>15W night Lamp Replaced with 3 W LED</td>
<td>175</td>
<td>9198</td>
</tr>
<tr>
<td>4</td>
<td>OT Procedure light replace with LED &amp; gave order for 2 more</td>
<td>6</td>
<td>16425</td>
</tr>
<tr>
<td>5</td>
<td>Replace 28 W tube with 3 W LED light in Lifts</td>
<td>12</td>
<td>1460</td>
</tr>
<tr>
<td>6</td>
<td>Replace CFL with LED Lights</td>
<td>409</td>
<td>145105</td>
</tr>
</tbody>
</table>
## Investments and Savings

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Energy saving with Ring Main in water supply system</td>
<td>1</td>
<td>273750</td>
</tr>
<tr>
<td>10</td>
<td>Signages replaced to new LED type signages</td>
<td>4</td>
<td>1750</td>
</tr>
<tr>
<td>11</td>
<td>Medical equipments such as X ray repl to Digital type</td>
<td>2</td>
<td>4380</td>
</tr>
<tr>
<td></td>
<td>All glasses are regularly cleaned to get sufficient sunlight in Patient wards, rooms</td>
<td></td>
<td>3400</td>
</tr>
<tr>
<td>12</td>
<td>All the tube lights with 40 W chokes with 36 W electronic choke</td>
<td>200</td>
<td>3613</td>
</tr>
</tbody>
</table>
## Investments and Savings

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<tr>
<td>16</td>
<td>Cath Lab is operated with 250 Kva Generator is repl with 120 Kva Ups</td>
<td>2</td>
<td>32850</td>
</tr>
<tr>
<td>17</td>
<td>WOK cooking equipment cooking with the temp of pre heated oil</td>
<td>2</td>
<td>6500</td>
</tr>
<tr>
<td>18</td>
<td>Stairs having tube lights with motion sensors</td>
<td>2</td>
<td>In Prog</td>
</tr>
<tr>
<td>19</td>
<td>Replacing of starters with efficient starters for the AHU’s in OT</td>
<td>10</td>
<td>3285</td>
</tr>
</tbody>
</table>

**All out patient departments are paper less all datas are handling through computer**
Energy Efficient Status

Total energy saved 713718 KWH/Year is equal to 556.7 ton CO$_2$/year
Next Year Programs & Projects in Energy Conservation

- Phase wise replacement of all lights to Led in Kims hospital
- During Renovation we are replacing the old equipment's with energy efficient equipment's.
- Two hospitals planned for the next 2 years will be focusing on energy conservation.
- A new energy efficient STP is under construction.
- New DG with CPCB 2 norms ordered.
Renewable Energy Programme

• LED / Solar street lights in the car parking area.

• Solar water heater for the hot water in the hospital.

• Bio gas plant of 45 cubic meter capacity installed.

• Solar Power plant of 20KW installed in KIMS Nursing Complex of Thonnakkal.
Training for Employees in Energy Conservation

- Training given to staffs, supervisors regarding Energy Efficient use of DG by GREAVES COTTON
- Training given on STP to staffs, supervisors regarding Energy / Efficient Use of STP by CINZAG
- Training given on AC B’s/Contactors and accessories by L&T
- Orientation Programs to save energy is given to all employees when they join kims. It is a continuous process
- Employees attend seminar on Led by SEEM, Training on Solar by Cdit
• Put stickers in the hospital, room doors and offices regarding the switching off policies.
• Provided wall papers in 450 computers in the hospital, regarding the switch off policy and save water.
• Management circulating mails to all employees in the hospital regarding peak hour load Power reduction.
• Our Complete Out Patient departments are paper less (Only Hospital in India).
• Communications to all staffs are through intranet.
Water Boiling with Bio Gas
Cooking with WOK Machine
View of a WOK Machine
Normal cooking with Gas
LED Replaced in 5th Floor
Corridor Lights with Normal CFL
LED OT Lights
Pneumatic Pumping System
Ring Main Water Piping
Solar Panels for water heating
Solar Panels for water Heating
KIMS Geographical Spread

- Kottayam
- Oman
- Dubai
- Qatar
- Bahrain
- Jubail
- Kochi
- Riyadh
- Kollam
- Trivandrum
- Perinthalmanna
KIMS Healthcare Group: India

KIMS Trivandrum - Kerala
KIMS Healthcare Group : India

KIMS Kochi – Kerala

KIMS Kollam – Kerala
KIMS Healthcare Group: Polyclinics

KIMS WELLNESS CLINIC
TRIVANDRUM

KIMS QATAR MEDICAL CENTER
QATAR

Kochi
KIMS Healthcare Group : India

KIMS Kottayam, Kerala

KIMS AL SHIFA - Perinthalmanna
KIMS Healthcare Group: GCC

Royal Bahrain Hospital - Bahrain

Medex - Bahrain
KIMS Healthcare Group: GCC

KIMS Oman Hospital - Oman
KIMS Healthcare Group: Polyclinics

KIMS BAHRAIN MEDICAL CENTER
BAHRAIN

KIMS SUNCITYS MEDICAL CENTRE
JUBAIL – SAUDI ARABIA
KIMS Healthcare Group: Polyclinics

KIMS MEDICAL CENTER
DUBAI

KIMS MEDICAL CENTRE RIYADH
SAUDI ARABIA
Awards & Recognitions
The Prestigious Golden Peacock Award
India's most Customer Responsive Health and Pharma Company Award 2010 by Economic Times

TMA CSR Award 2012
Awards and recognitions

Health Tourism Award for maximum foreign exchange earnings

ICAI Award for Excellence in Financial Reporting
Awards and recognitions

State Energy Conservation award
Accreditations

2004

ISO 9001 : 2000  (International Accreditation)
Reaccredited 2007

2006

Australian Council on Healthcare Standards International (ACHSI)  (International Accreditation)
Reaccredited 2010, 2013

National Accreditation Board for Hospitals & Healthcare Providers (NABH)  (National Accreditation)
Reaccredited 2010

2008 & 2010

National Accreditation Board for Testing & Calibration of Laboratories (NABL)  (National Accreditation)
Reaccredited 2010, 2012

NABH Accreditation for Blood Bank – Accreditated in 2010
Reaccredited 2012
Thank you