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**SOUTHERN BIOPRODUCTS and
RENEWABLE ENERGY CONFERENCE**

**NASA STENNIS SPACE CENTER'S
ROLE IN ENERGY SECURITY**

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Stennis Space Center, MS
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Renewable Energy



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- Biodiesel
 - 200 gallons per month
- Solar Photovoltaic
 - Bldg 3418
 - Bldg 1201
 - Bldg 1100
- Solar Thermal
 - Bldg 1100
- Hydrogen
- Renewable Energy Certificates



Energy Conservation



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- Lighting Retrofits
 - Building 1201
 - 2100 Series of Buildings
 - 2200 Series of Buildings
- HVAC Upgrades
 - Building 1104 Central Plant
 - Building 4010 Chiller Replacement
 - Building 4110 Chiller Replacement
- Building Optimization
 - Evaluating how the existing energy management control system is controlling HVAC equipment. Changes are made to the program to produce energy savings.

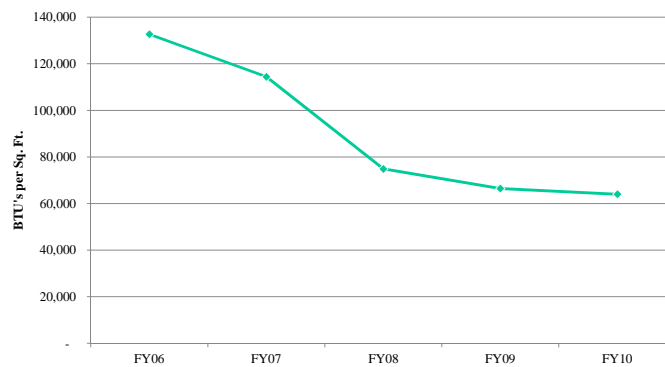


Energy Conservation (cont.)



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Bldg. 3225 & 3226 Energy Intensity



Energy Conservation (cont.)



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- Awareness
 - Webpage
 - 'Ask the Energy Manager' e-mail
 - Post energy audit reports
 - Post building consumption
 - Annual Energy Awareness Day in October
 - Periodic news articles in various site publications
- How are we doing?
 - In FY2010, SSC was 19.4% below their 2003 baseline. Target was 15%.
 - First among all NASA Centers.
 - In FY2010, the Optimization program saved approx. \$260,000 at no additional cost to NASA.
 - In FY2010, the Headquarters funded projects produced approx. \$138,000 in annual savings.



Barriers



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- Lack of funding
- Not an issue for everyone
- Don't have remote control of all buildings
- Lighting controls are limited to a few occupancy sensors



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QUESTIONS?