

Sustainable Building Plan

At

NASA

**Marshall Space Flight Center
Huntsville, Alabama**

Overview

- 1. Marshall Space Flight Center began its first sustainable design for new construction in 2002**
- 2. Presently experiencing an average of 35% energy reduction and 55% water reduction in LEED NC Certified office buildings**

LEED NC

- Marshall has 8 -buildings LEED NC Certified, being constructed, or being design ~ **725,000 sf. or 16% of total sf.**
 - Building 4600 (LEED Silver) – 2006; [the Agency's first LEED)
 - Building 4346 (LEED – 2008)
 - Building 4601 (LEED Gold – 2009)
 - Building 4602 (submitted for certification)
 - Building 4494 (70-year old building being renovated – presently being submitted for LEED certification)
 - Building 4220 (being constructed – designed for minimum LEED Silver)
 - Building 4221 (being designed for minimum LEED Silver)
 - Building 4260 (being designed for minimum LEED Silver)



**Building 4600
(LEED Silver Certified 2006)
Marshall Space Flight Center
Huntsville, Alabama
NASA's First LEED Building**



**Building 4346
Child Development Center
(LEED Certified 2008)
Marshall Space Flight Center
Huntsville, Alabama**



**Building 4601
(LEED Gold Certified 2009)
Marshall Space Flight Center
Huntsville, Alabama**



Building 4602

Laboratory & Office

LEED EBOM & Sustainable Renovations

- MSFC has 3-buildings LEED EBOM Certified or Sustainable ~ 602,000 sf. or 13% of total sf.
 - Building 4203 (230,000 sf. office building) – **LEED EBOM Certified** June 14, 2011
 - Energy consumption in building 4203 reduced by 15% after retro-commissioning [*\$68K annual energy savings*]
 - Building 4708 (303,000 sf. – laboratory & office facilities – being upgraded)
 - Buildings 4666 (69,000 sf. office building – being designed)



Building 4203
Constructed 1992
Registered as LEED EBOM 2008
(Existing Building Operations and Maintenance)
Marshall Space Flight Center
Huntsville, Alabama

Sustainable Overview

- **NASA MSFC has or is making major sustainable changes on 1,327,000 sf. Or 29% of it total Campus**

Q&A

Contact

Cedreck Davis

NASA Marshall Space Flight Center

Mail Code: AS22, MSFC, AL 35812

cedreck.g.davis@nasa.gov

256.544.3221