



**Federal Government Green Building Initiatives  
2002 Federal Agency Survey**

**Presented at the  
U.S. Green Building Council  
6th Annual Federal Government Summit**

**April 23, 2002  
Washington, DC**

## 2002 Federal Surveys

This year the USGBC has collaborated with the Interagency Sustainability Working Group to compile information on federal agency green building initiatives. Within this survey you will find federal agency responses to the questionnaire matrix distributed by the Interagency Sustainability Working Group. You will also find responses to open-ended questions presented by the USGBC that elaborate on federal green building initiatives. We hope you find this information useful and encouraging in regards to the overall goal of advancing green building in the marketplace.

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# Sixth Annual Federal Government Summit: Agency Questionnaire



## National Park Service

Agency	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or Database	Design Guidelines	Case Studies or Other Publications	Purchase Green Power	Integration with Security/Safety	Public Outreach or Education	Does your agency use the Whole Building Design Guide?
<b>National Park Service</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>

*(Please see below for descriptions)*

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the past year.**

In September 1993, the National Park Service (NPS) published Guiding Principles of Sustainable Design. At the time, this publication represented a high water mark for sustainable development in the Federal Government. It remains one of the premier documents in support of sustainable design and is used in universities and other teaching venues throughout the country. This was followed closely by the development of the NPS website for sustainable products. Sustainable development, however, was not, at that time, institutionalized within the National Park Service as the normal way to approach the planning, design and construction of facilities and other infrastructure projects.

Through the initiatives of individual park superintendents, their staffs, other park service personnel, and representatives of various outside organizations who have understood the value and importance of sustainable development, especially within an organization such as the National Park Service which exists to preserve the historic, cultural and natural resources of the United States, there have been a significant number of sustainably designed projects accomplished in the past few years. Numerous others are in various stages of planning and design. These range from the significant redevelopment of the Grand Canyon National Park, where proposals for a heavy reliance on light rail transportation will substantially remove automobiles and their pollution from the park, to the recently reviewed project by William McDonough for an Environmental Learning Center at the Indiana Dunes National Lakeshore

that will interpret sustainability themes of the region through the construction and design of the center itself.

Beyond specific facilities projects, such as those noted above, the National Park Service has initiated the development of a far-reaching program for environmental leadership and sustainability. This program addresses a wide array of NPS operations from concessions to transportation. To date, the principal focus has been on energy management through a highly successful program known as “Green Energy Parks.” Although focused substantially on maintenance and utilities, this initiative, and especially its ongoing educational program, has provided a strong base from which to extend sustainability concepts and principles to all areas of Park Service business and operations.

The National Park Service continues to transition to a point where every project, regardless of location, size, function or funding source will be sustainably designed and constructed. During the spring of 2000, policies were issued requiring all projects accomplished through the Denver Service Center and most major Park Service projects to incorporate sustainability features. Additionally, all new A-E selections from that date have been based in part on A-E qualifications and experience in this area. Policies for this to apply to smaller projects accomplished by regional offices and parks remain under development. See comments under Question No. 2.

In both the spring of 2000 and the fall of 2000, major training sessions were held within the Park Service on sustainability. Effective with the April 2001 offering, segments on Sustainable Design have been incorporated in the standard training provided to park superintendents and their facilities-related staff on the planning, design and construction of facilities.

In the summer of 2001, two initiatives occurred in conjunction with meetings of the NPS-wide Development Advisory Board. This board, Chaired by the Associate Director for Professional Services, is comprised of the top leadership of the Park Service, to include all Associate Directors and Regional Directors (or their representatives) and other high level personnel with major stakes in the physical development of national parks, such as the Chief Historical Architect. This board provides a design and programmatic review of all projects accomplished within national parks. These initiatives were as follows:

- It is now mandatory that project presenters, be they park superintendents or design consultants, explain in detail the sustainability features incorporated into their projects, and additionally complete a detailed questionnaire that includes a preliminary project evaluation under the LEED Rating System, when applicable to the project at hand.
- A “Distinguished Speaker Series” was initiated with John Anderson, FAIA, President of the American Institute of Architects, as the first speaker. He was followed by David Gottfried, one of the founders of the US Green Building Council, founder of the World Green Building Council and WorldBuild. The intention is for all

distinguished speakers to address environmental responsibility within the context of their material.

In October 2000, the Zion National Park Visitors Center was presented at the international Sustainable Development Conference in Maastricht, The Netherlands, having been selected by the Department of Energy as one of the best sustainably designed facilities in the U. S., especially from an energy utilization standpoint. The project has also been presented at various national conferences, including the 2000 AIA National Convention. The AIA's Committee on the Environment, in a national competition, subsequently selected this project as one of the best-designed "green" projects in the U.S., and it has been featured in numerous publications.

Building on the concept of the Environmental Learning Center at the Indiana Dunes National Lakeshore, the Park Service is in the process of identifying a system of parks throughout the country, initially 20, that, in addition to their original reason for existing, will take on an additional responsibility – interpreting sustainability issues as they relate to the local and regional ecosystems. Instead of creating buildings to house exhibits on sustainability-related subjects, these Centers for Environmental Innovation, as they will be called, will utilize the built environment – buildings, especially Visitor Centers, and grounds – as the exhibits themselves. See more detail under Question No. 2.

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

The leadership in the planning, design and construction areas of the National Park Service continues to place an emphasis on sustainable development throughout these areas of business. During the Park Service-wide Design and Construction Conference in Atlanta, GA, in November 2000, a task group was established to develop new and comprehensive policies on design and construction. Incorporated into these new policies will be mandatory requirements regarding sustainability that are expected to be the most extensive in the Federal Government, and perhaps within any public agency. Work continues on this initiative, and it is anticipated that the policies will be issued by the Director of the National Park Service for nationwide implementation during 2002. These policies are expected to incorporate the following features:

- Adoption of selected recommendations made in Sustainable Federal Facilities: A Guide to Integrating Value Engineering, Life-Cycle Costing, and Sustainable Development, a report completed by the National Academy of Sciences, Federal Facilities Council in 2001, and published by the National Academy Press
- Mandatory incorporation of sustainability features in all facility and infrastructure projects.
- Accomplishment of sustainable design on most projects with no increase in first cost. Selected projects, consistent with teaching and interpretation desires of the parks, may incorporate features that have a higher first cost, but even these are expected to have favorable life-cycle cost implications.

- Selection of all planning, design and engineering consultants, in part, on the basis of their demonstrated knowledge and successful application of sustainable design concepts and features in their work, and their knowledge of integrated design, which is seen as the basis for first costs being within acceptable limits.
- Adoption of the USGBC's LEED Rating System as (a) a tool to use during design, (b) a nationally accepted benchmark to determine the "greenness" of a project, and (c) a criteria upon which to base project selection, especially when using design-build procurement methods.
- Migration toward increased use of performance-based approaches to planning and design, including the use of performance-based codes, standards, specifications, and procurement methods.
- Utilization of the Whole Building Design Guide, as now being managed by the National Institute of Building Sciences, as the technical portal in support of National Park Service policies and programs.
- Increased teaming and participation in national and international organizations supporting sustainable development.
- In-agency personnel performance evaluations that incorporate measurements of the success of projects from a sustainability perspective.
- Continued training throughout all levels of the National Park Service.
- Identification of a network of national parks which will incorporate education, training and research in sustainability themes, each with a specific resource focus, such as water, forests, etc., and which utilize facilities in the education process.

Regarding the Centers for Environmental Innovation Program, the following apply:

- An emphasis that this effort will involve park experimentation and that visitor education will be the focus. While there is no new money to assist in making this program happen, some shifting of resources will occur. Model language for NPS Learning Center selection criteria is being developed. An Environmental Learning Advisory Workgroup is being assembled to assist in moving this effort forward.
- Twenty parks have been nominated by their Regional Directors to participate in this effort. Representatives from these parks have met throughout 2001 to define what a Center for Environmental Innovation should be, and develop guidance that parks will use to further the effort.
- These meetings have created the following program objectives:
  - All participants will assist in the development of a guidance document, which will provide parks information on how to continue along the path of becoming a Center of Environmental Innovation.
  - Participants will seek to understand park, headquarters, regional office and Advisory Board roles in this process, along with the linkage to other associated programs like green energy parks and Learning Centers.

- Participants will have a clear understanding of how we will define a Center of Environmental Innovation and how parks/offices can become one.
- Parks will have a clear understanding of the NPS Strategic Greening Plan, its implementation at the park level and the relationship of the plan to becoming a Center of Environmental Innovation.
- Parks will understand the commitment of becoming a Center of Environmental Innovation.
- Participants will identify a list of tools and resources that can be developed for this effort.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP's, design guidelines/requirements?**

LEED is now being used throughout the National Park Service. However, its use is not yet mandatory for all projects. The policies under development, and addressed above, are expected to accomplish this. Specifically, plans will likely call for the adoption of the USGBC's LEED Rating System as (a) a tool to use during design, (b) a nationally accepted benchmark to determine the "greenness" of a project, (c) a criterion upon which to base project selection, especially when using design-build procurement procedures, and (d) a criterion upon which to assess designer knowledge in the selection of A-E to do design.

**4. Does your agency have a website or other major resource for green building information?**

The main National Park Service website is [www.nps.org](http://www.nps.org). Limited information specifically on green buildings is currently provided. Especially in conjunction with Centers for Environmental Innovation Programs, plans exist for this to occur.

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

- Project database development.
- Development of a rating system focused primarily on macro planning issues and especially site development issues beyond those typically associated with an individual structure or project.
- Increased education at all levels.

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## Sixth Annual Federal Government Summit: Agency Questionnaire



DOE / Oak Ridge National Laboratory, Oak Ridge, TN

Agency	DOE / Oak Ridge National Laboratory, Oak Ridge, TN
Policies, Directives or Goals	<p>Require sustainable design practices be developed and used</p> <p>LEED certification sought on some buildings, implied LEED compliance on others to avoid paperwork costs</p> <p>New procedures being developed to better institutionalize processes</p> <p>Technical assistance provided to other federal agencies on energy efficiency and environmental issues related to facilities</p>
Training (materials or curriculum)	Many types – workshops provided all over the country on efficiency technologies, R&D efforts, distributed energy resources, etc
Contracting Language	Several documents developed and more continuing to be developed in order to enmesh sustainable design in all standard business practices for new facilities
Preferred Products Listing or Database	Not formally developed, but many preferred products selected
Design Guidelines	Require “LEED-like” but modified to incorporate some of SpiRiT and MN Whole Bldg Design Guide
Case Studies or Other Publications	None formally available, except the many on energy efficiency technologies and energy guidelines
Purchase Green Power	Currently purchase the maximum that TVA can provide us
Integration with Security/Safety	Major priority and issue and is done
Public Outreach or Education	Under support to the Federal Energy Management Program, outreach to other Federal agencies is continual. Under DOE programs, outreach to other public and private sector organizations is continual.
Does your agency use the Whole Building Design Guide? <a href="http://www.wbdg.org">www.wbdg.org</a>	NO – has too many holes, is too cumbersome, and has some poor advice

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the past year (or slightly longer).**

Obtained top management support for sustainable design and included this requirement in the long-range institutional plan.

Changed the facility design project management organizational culture here from the attitude that “Green is too expensive” to one that admits sustainable design can be accomplished.

Began requiring both LEED certification for some new facilities and “LEED-like” certification (self-certified) for most others.

Provided sustainable design support to several federal agencies across the county.

Developed short informational papers on issues related to energy efficiency and systems design for larger buildings (<http://eber.ed.ornl.gov/commercialproducts/Design.htm>).

Developed white paper on issues related to defining and rating the performance of commercial facilities (<http://eber.ed.ornl.gov/commercialproducts/CWB.htm>).

Developed sustainability requirements for parking lots.

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

Ongoing continuation of the many efforts already in place, including efforts to achieve LEED certification for some new facilities.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP’s, design guidelines/requirements?**

LEED is being used directly and as a reference for all the above.

**4. Does your agency have a website or other major resource for green building information?**

DOE website <http://www.sustainable.doe.gov/>

ORNL has many websites which are partly of interest, especially for energy, including:

Can search from main lab page: [www.ornl.gov](http://www.ornl.gov)

Also see Energy Efficiency Program:

[http://www.ornl.gov/ORNL/Energy\\_Eff/Energy\\_Eff.html](http://www.ornl.gov/ORNL/Energy_Eff/Energy_Eff.html)

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

Attend the Energy 2002 conference in Palm Springs, CA, 6/2-6/5, 2002, to explore the possibilities – there are probably a lot of opportunities to become more engaged and informed.

## CONTACT INFORMATION

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## Sixth Annual Federal Government Summit: Agency Questionnaire



### Sandia National Laboratory

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the past year.**

Sandia is following Sustainable Design Criteria for 4 building projects begun in calendar year 2001, totaling over 485,000 GSF. There were sustainable design charrettes held for 3 of the projects. Our first project following SD criteria started design in Sept. 1999 and kicked off with a green design charrette, a first for Sandia. The charrette utilized LEED 1.0 rating criteria. This project helped immensely in improving our design criteria for the 4 projects mentioned.

Our Facilities Group Technical Services Manager signed a Sustainable Design Communiqué in February 2001, which was issued to all the local A/E firms doing day-to-day design work for Sandia. This Communiqué was developed as a message of our intent and expectations, in advance of comprehensive changes to our design manual and construction standard specifications to institutionalize green design.

Became a pilot partner in the Laboratories for the 21<sup>st</sup> Century initiative  
<http://www.epa.gov/labs21century/partnership/index.htm>

Scheduled a LEED Training Workshop in association with the DOE Pollution Prevention conference in Albuquerque in June 2001.

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**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

As indicated in #1 above, an effort has been underway the last seven months and continuing, to revise our construction standard specifications and design manual to incorporate the five major categories of Green Design (site, water, energy, materials, IEQ). This effort was funded by a "model program" grant from the DOE Federal Energy Management Program.

Including Green Design criteria in all new building projects, with the intent of improving upon the criteria each time.

Involved in the Labs 21 (Laboratories for the 21<sup>st</sup> Century) initiative to develop "LEED for Labs", a national Labs energy benchmarking database, and performance metrics to markedly improve energy efficient laboratory design.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP's, design guidelines/requirements?**

We are making extensive reference to LEED in our design criteria (here's an excerpt of Standard language, which is the introduction: "Designing, constructing, and operating facilities in an efficient and environmentally sound manner is important to Sandia. This is commonly referred to as sustainable (or green building) design and development. It is Sandia's intent to design the facilities for the XXXX to provide a healthful, resource-efficient and productive working environment. To achieve these goals requires an awareness of and a commitment to sustainable design through an integrated, whole-building design approach. The U. S. Green Building Council's Leadership in Energy and Environmental Design (LEED) Rating System, version 2.0, (<http://www.usgbc.org>) and the Whole Building Design Guide (<http://www.wbdg.org>) will be used as tools to ensure that sustainable elements are incorporated into the facility design. Additionally, the design of the XXXX will be submitted by the A/E firm for certification as a LEED green building."

As mentioned in #1 above, all 4 major building design projects begun in FY01 are following Sustainable Design criteria. One of the documentation requirements is a Sustainable Design Report, which closely parallels the five major categories in the LEED rating criteria and thus eases the LEED submission process. One of the projects (WETL project, Amarillo, TX) has recently been registered with USGBC and it is anticipated that another of the projects will soon be submitted.

Using the LEED reference manual as a major guide in the effort to revise the Sandia NM Facilities Design Manual.

Just released the first Sandia Environmental Report 2001, in which pages 15-17 highlight Sandia's green building initiative. See <http://www.sandia.gov/News.htm> and selecting it from the list under "Periodicals."

**4. Does your agency have a website or other major resource for green building information?**

None as such located at [www.sandia.gov](http://www.sandia.gov), but Sandia National Laboratories, New Mexico site is a pilot partner in the Laboratories for the 21<sup>st</sup> Century initiative, which promotes its "Labs 21 approach" <http://www.epa.gov/labs21century/about/approach.htm> to conference attendees and web site visitors.

In fact, Sandia NM has arranged a Labs 21 workshop on high performance, low energy design for research laboratories, in Albuquerque on April 23&24, which will have as one of its sessions, "Green Design and Emerging Rating Systems for Laboratories".

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

I think it may have already been initiated by others at EPA/DOE, but in case not, please support the effort by the Labs 21 initiative to develop a LEED for Labs scoring criteria.

**CONTACT INFORMATION**

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# Sixth Annual Federal Government Summit: Agency Questionnaire



Air National Guard/Civil Engineer Directorate

Agency	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or Database	Design Guidelines	Case Studies or Other Publications	Purchase Green Power	Integration with Security/Safety	Public Outreach or Education	Does your agency use the Whole Building
Air National Guard/Civil Engineer Directorate	Developing Instructions to conform with Air Force guidance and policy directives	Include in existing Project Manager training sessions	None beyond FAR	Dependant on Architect – Engineer to specify	Still 1 <sup>st</sup> generation topics: Energy Efficiency, Air Quality. No overall cradle to cradle guidance	None	With multiple locations across the country, the ANG has a multitude of service providers. However, no tracking is done on “Green” power purchases	Quickly evolving process. Post 9-11 focus on security measures has taken priority over Green initiatives.  Developing site selection criteria is our earliest attempt to combine programs	None	No  Dependant on Architect – Engineer performing work on multitude of projects

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the past year.**

- Joined the US Green Building Council
  - Networking – Member summit, web site
  - Educational opportunities – LEED training
  - Benchmarking – What are others doing and how?
- Promoted awareness of Sustainability within Design and Construction, Plans and Programs, and Environmental Divisions
  - Included Environmental Managers on Design Working Groups at each installation
  - Identified “barriers” within the organization that need to be eliminated
  - Common language and focus for segmented programs
- Developing a comprehensive presentation to senior level officers on Sustainable opportunities within the Air National Guard
  - Many of the parts are there, but nothing is in place to put them together
  - Focus on cost savings, the real “Green” in green design

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

- Identify projects in the out years that offer the best opportunity to be considered for LEED registration or certification.
  - Program adequate funding to support Sustainable Design initiatives
  - Select Architect – Engineer firm with specialty and focus on Sustainable Design
  - Develop policy and design guidelines “on the go” throughout project. Use as baseline for future endeavors
- One such project is an aircraft Range Operations Complex located in North Central Montana. The Environmental Impact Statement (EIS) includes considerable emphasis on “Sustainable” operations, community interface, and minimal disruption on natural and cultural resources in the area. The physical development needed to support the range lends itself to being a model example of Sustainable design principles and practices.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP's, design guidelines/requirements?**

Dependant on Architect – Engineer knowledge of and application in a variety of project types performed throughout the country. Primary focus would be on material specifications and submittal reviews during construction.

**4. Does your agency have a website or other major resource for green building information?**

None.

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

- LEED point credit for having a Federal Agency Project Manger who obtains a LEED accredited professional certificate working on a project. Although not directly doing the design work, this credit would help promote more Federal professionals in taking the training and necessary examination to obtain this recognition and value to their agency.
- Lobbying efforts to promote awareness and appropriate funding for Sustainable design initiatives in Federal programs. Eliminate the disconnect between initial project funding and operations and maintenance costs.

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# Sixth Annual Federal Government Summit: Agency Questionnaire



## United States Army Corps of Engineers

	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or Database	Design Process Certification	Design Guidelines	Case Studies or Other Publications	Business Case Analysis	Purchase Green Power	Integration with Security/Safety	Public Outreach or Education	Do you use WBDG?
Army	<p>There are 3 memos (2 from the Army sent to MACOM and 1 from the Corps of Engrs. sent to its various districts) describing the sust. policy. There is also an ETL pertaining to Sust. Design for Military Facilities.</p>	<p>The Army Corps of Engineers has a training course it has given to every district performing military mission. Other training options are available through the Sust. Design and Development Resource web site and our USACE lab.</p>	<p>USACE does have some contracting language stating contractors shall use SPiRiT.</p>	<p>There are links to specific products on the Sustainable Design &amp; Development web page, including building, lighting, and electrical products.</p>	<p>SPiRiT (Sustainable Project Rating Tool). All new Army projects will be evaluated using SPiRiT. The goal is a minimum BRONZE level rating.</p>	<p>ETL 1110-3-491, <i>Sustainable Design for Military Facilities</i>, 5/2001. Provides basic criteria and info. on incorporating sust. design concepts in the design and construction of military facilities.</p>	<p>Case studies are available at <a href="http://www.cecer.army.mil/sustdesign">www.cecer.army.mil/sustdesign</a>.</p>	<p>The <i>Fort. Bragg Integrated Strategic Environmental Plan</i> is available at <a href="http://www.bragg.army.mil/sustainability/">http://www.bragg.army.mil/sustainability/</a></p>	<p>The Army allows purchase of green power.</p>	<p>There are ongoing discussions on this topic.</p>		<p>USA CE is a member of this group and contributes to it. Use is limited</p>

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the last year.**

**Implemented SPiRiT throughout the Army**

**Received GSA Award for Sustainable Army Communities**

- Published White Paper/Tech Rpt - Planning, Engineering, and Design of Sustainable Facilities and Infrastructure - An Assessment of the State of Practice (Mar '01)  
<http://www.cecer.army.mil/td/tips/pub/details.cfm?PUBID=4031&LAB=1>;
- Joined USGBC Executive Steering Committee (Mar '01);
- Agreement with USGBC on use of LEED™ 2.0 (Mar '01);
- Developed/Fielded SPiRiT v.1.4 (Apr '01)  
<http://www.cecer.army.mil/SustDesign/SPiRiT.cfm>;
- Facility(s) design SPiRiT application – Ongoing;
- Tri-Service Coordination on rating criteria – Initiated;
- Partnering with USGBC on rating standards development –Ongoing (LEED™ 3.0, LEED™ 2.x Committees);
- Sustainable Building Guidance (Building Module) - 4Q01.Sustainable Design and Development website at <http://www.cecer.army.mil/SustDesign>

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

- SDD Showcase Projects (Annual selection/designation)
- Include SDD in existing Energy, Environmental, Directorate of Public Works (DPW), etc Award Programs
- Integrate SDD into life-cycle costing models and Value Engineering process  
Incorporate SDD/SPiRiT and/or LEED into std designs
- Develop Sustainable Building Guidance (Installation Module)
- Develop Sustainable Designer's Aid (Software tool)
- Possible test of LEED for Existing Buildings at ERDC-Champaign

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP's, design guidelines/requirements?**

The Army uses SPiRiT to score all of its projects. There is no formal requirement for registering or certifying the projects. Design agents and owners are required to jointly score the project and achieve minimum Bronze level. Guidance has been issued for selection of AEs with experience in sustainable design. Our design build guidance, as they are developed, requires use of SPiRiT. As we revise our technical documents, we incorporate, to the greatest extent possible, requirements of environmentally benign designs, recycled and recyclable materials and better deconstruction methods.

**4. Does your agency have a website or other major resource for green building information?**

<http://www.hqda.army.mil/acsimweb/fd/linksSDD.htm>

<http://www.cecer.army.mil/sustdesign/>

<http://www.envquest.com/home.asp>

<http://www.bragg.army.mil/sustainability/>

<http://www.hq.usace.army.mil/isd/librarie/RP/Sustainability/Sustainable%20Design%20&%20Development.htm>

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

Definitive cost/benefit data that quantifies:

- a: estimated cost deltas between LEED rating levels (Certified, Silver, Gold & Platinum)
- b. demonstrated savings in 1<sup>st</sup> costs & Life-Cycle-Costs resulting from specific SDD practices.
- c. Develop cost estimates for LEED certified experts to score the projects and get certification.

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## Sixth Annual Federal Government Summit: Agency Questionnaire



### US Housing and Urban Development

- 1. Please provide highlights of your Agency's green building accomplishments over the past 2-3 years: including projects, programs, and policies (you may attach supplemental information if desired.)**

HUD's green building initiatives are carried out under the aegis of the PATH (Partnership for Advancing Technology in Housing), which is managed by HUD's Office of Policy Development and Research. The goals of PATH are to improve the quality, affordability, and energy efficiency and environmental protection of new and existing housing, to strengthen the technology infrastructure of the United States, and to help the next generation of American housing. While HUD sponsors activities labeled "green building," which will be reported here, such labeling clearly understates HUD's support of green activities as part of the PATH initiative. A copy of PATH's accomplishments can be accessed that shows that PATH's agenda supports projects with "green" goals.

Specific highlights are the following: (1) Support for the four annual Green Building Conferences sponsored by the NAHBRC, which is intended to educate the homebuilders on how to incorporate green building concepts into homebuilding activities. Attendance at these conferences has grown by 20% in each of the three years it has been held. The most recent conference, in Seattle, had an attendance of over 600. (2) Deconstruction: HUD has published *A Guide to Deconstruction*, which describes how a community may start its deconstruction program, and *A Study of the Feasibility of Deconstruction*, which describes the conditions under which local deconstruction activities would be feasible, (3) DOE Weatherization Demonstration: this demonstration examined a variety of innovative and emerging energy improvements, including retrofitting improvements, including retrofitting strategies involving equipment replacements, and the use of sealants, (4) support for determining the feasibility of BEES (Building for Environmental and Economic Sustainability) methodology developed by NIST, (5) Support for NAARP (National Applicable Recommended Rehabilitation Provisions), which is a set of model provisions to guide cost-effective, streamlined housing rehabilitation: These streamlined building code guidelines, which make rehabilitation more affordable and sustainable, have been adopted by two states, and there is an effort to have NAARP serve as the basis for the rehabilitation code as part of the International Construction Code (ICC), (6) LCA: HUD has published *Life Cycle Assessment Tools to Measure Environmental Impacts: Assessing their Applicability to the Home Building Industry*, (7) HUD has also given a grant to the National Center for Appropriate Technology to provide technical assistance on sustainable development to

localities and organizations participating in the HUD HOME program. The primary vehicle for assistance is the the website Affordable Sustainability Technical Assistance for HOME [[www.homeasta.org](http://www.homeasta.org)].

For a fuller description of accomplishments and highlights, see the [www.pathnet.org](http://www.pathnet.org)..

**2. What green building efforts do you have planned for the near future? (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

We are conducting an assessment of water conservation techniques.

We plan to conduct a study of vernacular architecture and construction that include green techniques.

We are also revising, through the NAHB research Center, the seminal 1993 guidance report on model land development concepts that will incorporate many sustainable development concepts. In partnership with the National Trust for Historic Preservation, we are developing guidance material on the development of community gardens as part of the urban revitalization process.

**3. What are the major factors prompting your Agency to implement green building goals and objectives?**

See the PATH report explaining the purpose and objectives of the PATH initiative. Reducing the environmental impact of housing is a major PATH mission since the program's inception. PATH is involved in the technologies of environmental impact more than the policies and, so, we have invested in R&D efforts along those lines.

**4. What are the major barriers your Agency faces in achieving your green building goals and objectives (lack of access to products, guidelines, A/E expertise, measurability of outcome)?**

PATH's larger strategy in this arena is getting the attention of home builders (and to a much lesser extent, the housing institutions like financiers, utilities, and insurers along with programs like Energy Star). This attention ranges from our green PATH Inventory technologies, to guidelines for improving energy-efficiency and green-ness, and even guidelines for a builder to market energy-efficient and green to her/his buyers. PATH attempts to get the actual builders invested in the process since they are the ultimate and most influential decision-makers in home building and we need to speak their language: technologies, processes, costs, and marketing.

**5. To what extent are you using LEED or another green building rating system?**

PATH supports code reform.

**6. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

See PATH website on opportunities for support of PATH initiatives.

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# Sixth Annual Federal Government Summit: Agency Questionnaire



## U.S. Environmental Protection Agency

	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or Database	Design Process Certification	Design Guidelines	Case Studies or Other Publications	Business Case Analysis	Purchase Green Power	Integration with Public Outreach or Education	Agency use WBDG?
EPA	EPA established a Sustainable Facilities Practices Branch in 12/2000 to improve the environmental performance of its facilities, try new approaches, partner with other programs inside and outside EPA, and serve as a center of expertise on Green Buildings.	LABS-21 (High Performing Low Energy Laboratories) features a one-day training course given four times a year. Special sessions can be organized.	EPA "Green Building Riders" for leased facilities (office and labs). EPA has also updated its Facility Specifications with some new sust. guidelines (target completion date, 2/3003)	EPA's "Green Building Riders" have product specifications. EPA has also updated its Facility Specifications (target completion date, 3/2003)	LEED Certification for Chelmsford, MA laboratory underway (lab occupied 10/01); LEED Certification required on Kansas City Science and Technology Center (construction complete, Spring 2003); LEED Certification required	Guidelines featured in EPA's "Green Building Riders" for leased facilities. EPA is also updating its Facility Specifications. In addition, a <i>Design Guide for Energy Efficient Research Labs</i> , a joint effort between the EPA and the DOE, is now	<i>A Design Guide for Energy Efficient Research Labs</i> – CD Version 3.1F, 9/20/2001 LBNL/Pub 777 Rev. 3.1F EPA-DOE/FEMP-LBNL  Kansas City Regional Office Case Study – "Off the Shelf Green," 1999  <i>Laboratories for the 21<sup>st</sup> Century</i> – An <i>Introduction to Low Energy Design</i> Joint EPA/DOE	All major mechanical system upgrades/retrofits at EPA labs require cost/benefit/payback analyses to ensure projects are economical to the taxpayer prior to proceeding.	Yes. EPA is believed to use the highest percentage of green power out of all Federal agencies (2001). For more details, see the EPA's <i>Green Power</i> brochure, Pub.# 202-F-01-001.	LABS-21 has a website at <a href="http://www.epa.gov/labs21century">www.epa.gov/labs21century</a> . The Office of Administration also has a webpage at <a href="http://www.epa.gov/oa/interne">www.epa.gov/oa/interne</a> . Another good outreach tool is the LABS-21 video, which features	EPA is trying to learn how best to fit labs into the WBDG

**Additional EPA information:**

EPA has just started a green building website at [www.epa.gov/oppt/greenbuilding](http://www.epa.gov/oppt/greenbuilding)

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# Sixth Annual Federal Government Summit: Agency Questionnaire



## U.S. General Services Administration

	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or Database	Design Process Certification	Design Guidelines	Case Studies or Other Publications	Business Case	Purchase Green Power	Integration with Security/Safety	Public Outreach or Education	Agency use WBDG?
General Services Administration	<p>Contained within GSA's new mission statement is the goal of carrying out social, environmental, and other responsibilities as an agency. The environmental aspect is a significant new focus for us. A 1999 memorandum established our commitment to build green.</p>	<p>GSA has a training course including 2-days of classroom study and a half day building tour. This course is available to all regional offices. GSA Regional Offices are also equipped to provide sustainable design training to client agencies.</p>	<p>The <i>Design Excellence Program Guide</i> includes contracting language for A/E selection. GSA's Solicitation for Offers for leasing was revised to incorporate sustainable design concerns. The agency's acquisition manual (GSAM) was modified to address APP, EPP and energy efficiency.</p>	<p>GSA's Federal Supply Service produces the <i>Environmental Products and Services Guide</i> (available on the Internet). There are also guides for <i>Energy Solutions Products and Services</i> and <i>Environmental Advisory Services</i>.</p>	<p>Beginning with design starts in 2003, GSA is requiring projects to meet the LEED criteria. SILVER level is the target.</p>	<p>GSA's <i>Facilities Standards for the Public Buildings Service</i> describes what is expected in buildings. It was modified in 2000 to include LEED requirements and sustainable design aspects were added throughout.</p>	<p>GSA and the PBS are working on developing case studies. The Office of Gov't-wide Policy published <i>Real Property Sustainable Development Guide</i> in 2000.</p>		<p>The New England Region and Pacific Rim Region have implemented green power purchase contracts. Additional purchases are considered where appropriate.</p>	<p>Security is of significant concern to GSA. These two concepts need not be in opposition.</p>	<p>The Office of Gov't-wide Policy's sustainable development initiative is directed at decision-makers and leaders of Federal Agencies.</p>	<p>GSA is taking a leadership role in continued development of the WBDG and promotes its use to all involved in project development and management.</p>

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the last year.**

PBS completed training of over 500 Project Managers, Contracting Officers, Portfolio Managers and others, in sustainable design and over 500 Realty Specialists in incorporating green leasing concepts. Our Regional Offices have been equipped with training presentations to explain sustainable design principles to client agencies, including green material sample boards.

Sustainable design has been incorporated into the Program Development Studies of major projects. GSA has 19 projects registered with the USGBC working toward LEED ratings, four of which are currently under construction.

GSA's Workplace 20•20 program includes sustainability in the analysis and development of workplace solutions that are responsive to the business objectives of an organization and the needs of individual users.

PBS has developed a sustainable design website linking to policies, documents, guidance and other reference materials.

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

Our first showcase green courthouse, the Alfred A. Arraj U.S. Courthouse in Denver, CO, will be completed at the end of this year.

PBS is working on internal intranet resources that will assist project managers and those working with project development to share information on incorporating sustainable design in their projects.

Sustainability is a part of our selection criteria for A/E firms.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP's, design guidelines/requirements?**

Beginning in FY 2003 all new construction and major renovation projects are required to meet the criteria for LEED certification. Our target is the Silver level. Many projects are already working toward this goal. The requirement for meeting LEED criteria is stated in our annual Capital Investment and Leasing Program and in the *Facilities Standards for the Public Buildings Service*.

GSA has 19 projects registered with the USGBC for LEED ratings. Our first building to receive a rating is a lease-construction project for an EPA lab in Chelmsford, MA.

GSA has submitted projects for the LEED Existing Buildings Pilot and anticipates participating in the LEED Commercial Interiors Pilot.

**4. Does your agency have a website or other major resource for green building information?**

GSA's website is <http://www.gsa.gov>

Information that can be found within the site includes:

Public Buildings Service:

Sustainable Design – links to key documents, policies and resources

Office of Governmentwide Policy publications:

Real Property Sustainable Development Guide

The Integrated Workplace: A Comprehensive Approach to Developing Workspace

Federal Supply Service publications:

Environmental Products and Services Guide

Energy Solutions, Products and Services

Environmental Advisory Services

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

Simplification of documentation requirements for LEED certification.

## CONTACT INFORMATION

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# Sixth Annual Federal Government Summit: Agency Questionnaire



## US Navy, Naval Facilities Engineering Command

	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or	Design Process Certification	Design Guidelines	Case Studies or Other Publications	Business Case Analysis	Purchase Green Power	Public Outreach or Education
NAVFAC	There are 3 NAVFAC policies on sustainable development: 9801, 9802, and 9803. Also, OPNAV instruction 1100.16B pertains to sustainability and is currently at the Pentagon awaiting signing.	NAVFAC has been conducting training for over 2 years and has trained all 4 divisions. 3 more training sessions have been budgeted for next year. NAVFAC also helped formulate DOD's Sustainable Training Regimen for Architects, Planners, and Engineers.	Every division is a bit different in this regard, but there is some contracting language requiring LEED. NAVFAC policy 9803 includes some contracting language stating that A/Es are to be selected on the basis of their knowledge, experience, etc. regarding sustainable design.	Use listings from GSA, DOE, etc.	NAVFAC uses LEED guidelines for this purpose. LEED is used as a self-rating tool and as a performance evaluation tool for proposals.	LEED or the <i>Whole Building Design Guide</i>	NAVFAC case studies are included in the <i>WBDG</i> . The USGBC has a few of its case studies as well. NAVFAC is trying to develop a format for these case studies.	In FY 2004, there will be a 5% increase in the budget for sustainable design line items, and each of these items must be backed up by an economic analysis.	Opportunities in CA are being considered.	NAVFAC is heavily involved in the Federal Network for Sustainability, participates in the ISWG and the AIA's Committee on the Environment (state and local), and is a member of the USGBC.

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the last year.**

Expanding the scope of opportunities has resulted in a programming line item for “Sustainable Development” for a major new housing project that has increased our design and construction budget by 5%. Starting in FY04, this will be standardized across NAVFAC, allowing more than 5% if an economic analysis supports the strategies over the life of the project.

Major Projects Completed in 2001 using SD strategies:

- Naval Sea Systems Command. Washington Navy Yard. \$160 million, one million square feet of office administration space.
- Bldg 850, Navy Base Ventura County, CA. A demonstration facility for sustainable design and net zero energy use. Being monitored by So. Cal. Edison for two years (until summer 2003).
- Repairs to historic U.S. Naval Academy Academic Group, originally constructed 1907. Leveraging the climatic design of this building group to minimize energy use, restore historic features and provide a healthy indoor environment for midshipmen and Academy staff.
- B-293/295, Norfolk Navy base, VA. Programming the “Sailor Ashore” housing initiative to achieve a minimum LEED Silver certification.
- Engineering Field Activity, Chesapeake hosted a USGBC LEED Workshop and accreditation testing, with over 30 people in attendance, and over 15 becoming accredited as a result.

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

Sustainable Systems Management (SSM), a web based tool based on ISO management systems, is being developed to help us establish a consistency in our SD applications to design, construction, operations and maintenance.

We continue to support greater energy efficiency in our shore facilities, and are pushing toward making “alternative” sources more mainstream. Research and development money is being programmed for this effort.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP’s, design guidelines/requirements?**

LEED is being used as the preferred performance rating tool to assess the green building strategies being proposed by the respondents to our RFPs. In specific cases, it is being used as a target for certification: Certified, Silver, Gold, Platinum. Our field designers consider LEED to be the primary model for sustainable design guidelines.

**4. Does your agency have a website or other major resource for green building information?**

The Navy has been a major proponent of the Whole Building Design Guide (<http://www.wbdg.org>) as a source for green building/sustainable design information. Also, we have placed a page on the Foundation Knowledge web site:  
[http://www.foundationknowledge.com/KM%20Center/sustainable\\_development/sustainable\\_development.htm](http://www.foundationknowledge.com/KM%20Center/sustainable_development/sustainable_development.htm)

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# Sixth Annual Federal Government Summit: Agency Questionnaire



## United States Postal Service

Agency	Policies, Directives or Goals	Training (materials or curriculum)	Contracting Language	Preferred Products Listing or Database	Design Guidelines	Case Studies or Other Publications	Purchase Green Power	Integration with Security/Safety	Public Outreach or Education	Does your agency use the Whole Building Design Guide?
United States Postal Service				The U. S. P. S. Standards contain a Master Specification . This has been greened.	The U. S. Postal Service Design and Construction Program is standardized . These standards have been greened and prescribe all new construction, expansions, renovations and alterations nationwide.				Some green Post Offices have educational stations both on the site and within the facility.	No

**1. Please describe any significant achievements in sustainable design your agency has accomplished over the last year.**

Continue to apply greened national standards to all United States Postal Service new construction, expansions, renovations and alterations nationwide.

**2. Please describe any major green building initiatives your agency has planned for the near future. (Can include green building RFPs, web site resources, policy directives, grant monies, incentive programs, etc.)**

Designing green Post Offices in two cities in California, one in Pennsylvania and one in New York.

**3. To what extent are you using LEED, i.e. registered projects, certified projects, RFP's, design guidelines/requirements?**

Are using LEED on one project and considering it for others.

**4. Does your agency have a website or other major resource for green building information?**

The USPS Design Standards have been greened. They are posted and updated on the USPS Intranet.

**5. Are there particular activities you think the U.S. Green Building Council should undertake to support its federal government partners?**

Provide internet accessible information that correlates green and practical concerns such as productivity and cost savings. Carnegie Mellon has such information.

Also provide reliable information on green products, specifications and costs.

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