

# GOVENERGY 2008

PHOENIX, ARIZONA

AUGUST 3-6, 2008

# HOT SOLUTIONS FOR PRICKLY PROBLEMS

The Federal Government currently spends \$10 Billion annually in energy expenditures on its facilities and operations, including the Federal vehicle fleet. The goal of this annual event is to help Federal agencies reduce their energy use and costs and meet Federal energy mandates as outlined in Energy Policy Act of 2005, Executive Order 13423, EISA 2007 and additional Federal guidance.

GovEnergy offers participants:

- Multiple Technical Tracks covering varied technical session topics
- Educational Credits
- Networking opportunities with nationally recognized energy experts and colleagues from throughout the Federal Government
- Tradeshow Exposition of exciting energy-saving technologies, services and software tools
- Technical tours
- Additional pre & post GovEnergy Training opportunities

Visit the GovEnergy website at [www.govenergy.gov](http://www.govenergy.gov) for complete details.

GovEnergy offers participants a valuable opportunity to meet and exchange ideas and lessons learned through technical workshops, networking sessions, and the exposition hall.

Workshop participants include:

- Federal Facility Managers
- Federal Energy Coordinators
- Federal Procurement Officials, Contracting Officers and Lawyers
- State and Local Government Officials
- Utility and Energy Service Companies
- Equipment Manufacturers
- Energy Management Service providers
- Transportation Professionals
- Fleet Managers



## GovEnergy Tracks & Sessions

There are 13 tracks so you can easily find the sessions you need most:

- Finance
- Metering
- Renewables
- Transportation
- Water
- Energy 101
- Acquisition
- Sustainability
- Building Operations
- Technology
- Legislation
- Energy Lawyers
- Grand Canyon

## Finance

Agencies today have many options for financing their energy projects. This track will explain each of these options, how they work, and why certain ones are preferred for certain cases. This track will also cover new, cutting-edge financing mechanisms, how lenders look at projects, how M&V is applied, and how federal sites can use incentives and credits.

### **Alternative Financing for Newcomers**

This session provides an entry-level description of alternative financing contracting vehicles including the differences and similarities of ESPCs, UESCs, and EULs. Insights are shared on starting projects and quickly implemented, as well as why alternative financing is usually better than waiting for appropriations.

### **An In-Depth Look at Energy Savings Performance Contracts (ESPCs)**

Get the fundamentals of ESPCs through recent real-life examples. Learn why ESPCs may be the best fit for your project opportunity. Get updates on the new DOE ESPC contracts and the USACE, Huntsville, contracts, as well as a perspective on the future outlook and new trends in ESPCs.

### **Cutting-Edge Financing Mechanisms**

Looking for the newest ways to finance your clean energy projects? Then this session is for you. You'll hear about DOE's Loan Guarantee Program, marrying the Washington Area Power Administration's contract with renewable power purchase agreements, and other cutting-edge financing mechanisms.

### **An In-Depth Look at Utility Energy Services Contracts (UESCs)**

Gain a detailed understanding of UESCs, how the financing vehicle operates, examples of which agencies use it, and the future outlook for new trends. Attendees will hear about success stories, lessons learned, and issues related to project implementation.

### **An In-Depth Look at Enhanced-Use Leasing (EUL)**

Discover how EULs operate through examples of implemented energy projects, and hear about the outlook for the future and new trends. Gain information on how EUL projects get scoped, approved, and implemented. Learn why EULs are used for energy projects, how risks are handled, and their scoring impact

### **Matching Game with Renewable Energy Financing**

Enjoy an entertaining "Match Game" contest among DOE's Federal Financing Specialists on how recent federal projects have used various incentives, tax credits, and RECs to development renewable energy systems.

### **The Lender's Perspective on Alternative Financing**

Gain an understanding of how lenders evaluate financing opportunities. Hear examples of what energy services companies and contracting officers can do to improve the lending pricing. Discover how the recent turmoil in the credit markets has influenced lender interest/pricing and how projects were affected.

### **Leveraging Incentive Programs for Federal Projects**

Witness how state and utility incentive programs have helped buy down the cost of federal projects, have made the difference in their feasibility, and have increased the implementation of renewable technologies. Also hear an update on the future of utility incentive programs from a national regulator's perspective.

### **Measurement and Verification (M&V)**

Participants will learn how M&V is applied in each of the alternative financing processes and about the value added by M&V from the government's perspective as well as the contractor's perspective. Hear a discussion of the applications of each of the various M&V protocol options to each of the alternative financing programs.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).

## Metering

Come away from these sessions armed with strategies, methods, and technologies to ensure successful measurement and use of energy and water consumption data at your facility. We will investigate how your counterparts are implementing metering, and how to make best use of the information that metering yields.

### Metering and EMCS Case Studies

Learn from the field the good, the bad, and the truth about metering projects. We will discuss plans, project successes, and even failures. Come ask the people who have experienced it what they learned.

### Getting Money for Your Metering Project's Enterprise Systems (Internet Based)

Trying to find money to install meters on your campus? Here is an informative session full of how-to's for finding funds to implement your metering projects. How do you justify metering and other infrastructure within the organization? How do you calculate ROI and life-cycle costs? We'll look at actual savings data.

### Best Practices – The FEMP Guide Unveiled

This session will begin with an overview of the requirements of EAct 2005 Section 103 and EISA Section 434 relating to utility metering of federal buildings. We will also review the recent FEMP guidance on what the EAct and EISA provisions mean in layman's terms.

### Metering All Things NOT Electric

Selecting the right devices to meter a specific media is not as easy as it would seem – ur, I mean seem. Learn how to select from the various technologies and accuracies to get the device that will provide the information you need without breaking the bank.

### Enterprise Metering Systems (Inter/Intranet-Based)

Discover what is happening in the world of Web-based facility management systems. Get a real-world overview of available systems and cutting-edge technology and reporting capabilities available in the industry today. This fast-paced, talk-show session will give participants the chance to see systems and their dashboards and learn about their differences.

### How to Build a Metering System From the Ground Up

Learn from industry leaders how to conceptualize, develop, design, and then implement a robust enterprise metering, measurement, and control system. Explore the challenges and issues that faced NASA as they began developing one of the most sophisticated and complete enterprise systems.

### Web-Based Facility Management Systems – Lessons Learned from UNC-Chapel Hill

Learn about an actual implementation of an enterprise-level management system. Discover how a highly visible large campus environment with eight individual proprietary control systems was integrated into a common Web-based platform where true enterprise-level management activities are conducted.

### Military Metering

In this session we will provide an update on the progress of the Department of Defense in complying with the advanced metering requirements of EAct 2005 and discuss lessons learned so far. This session will provide insight to DOD's plans for implementing the additional metering requirements of EISA.

### Using Your Enterprise Data Effectively

Ever wonder what to do with all of the data you are collecting with your metering system? How do you create the right dashboard for the job? Let us help with creating the right reports. Unlock treasures hidden in "the data" by providing the right information for every member of your team.

## Renewables

Renewable energy is playing an ever-greater role in energy solutions. Familiarize yourself with the engineering, technical, economic, and operational issues related to renewable energy. Improve your understanding of renewable technologies and gain an understanding of how to employ them.

### Small Wind - Does It Fit Here?

Gain an understanding of how to deploy on-site small wind generation technology. Learn from industry experts how to size, site, deploy, operate, and maintain wind generation equipment, focusing on the use and deployment of small-scale wind generators.

### Solar Electricity – From the Sun to the Plug

This session will share lessons learned from the implementation of solar projects and examine the solutions to the challenges that were faced. Come to this session to gain an understanding of the project costs and the savings achieved by installing photovoltaic electric generation.

### Meeting Your Renewables Goals

Learn the details of the new federal guidance on meeting the renewable energy requirements of EPC Act 2005 and EO 13423. Discover how partnering with EPA and the Green Power Partnership can help you meet your renewable energy goals.

### One Person's Waste is Another's Energy

In this session you will gain an understanding of how to convert your waste to energy. Discover the technologies that will turn your waste grease, wood waste, and other wastes into renewable energy sources.

### Use, Don't Abuse, the Earth and Water

Mother Earth has many ways to help you reduce energy consumption and energy costs. Discover how dirt and water can reduce your facility's energy consumption through geothermal heat pumps and lake water cooling technologies. Hear how these technologies use Mother Earth to reduce your energy use.

### Solar Thermal - It's Hot Again

Discover the changes and improvements in technology that have allowed solar thermal to return as a viable solution to your energy requirements. Learn from industry experts how to employ these new systems to provide long-term value and avoid the problems of the past.

### What Will Power Your Future?

What are tomorrow's answers to meeting your energy requirements? Join in the tour of the renewable energy systems of tomorrow and prepare yourself for the journey to the future.

### Large Projects - Size Matters

Prepare yourself for confronting the problems of large-scale projects. Learn from suppliers and users the requirements that are unique to large-scale renewable deployment. Gain an understanding of what will scale up, and what will not, and what was never considered by those who have been there and done that.

### Remote Renewable Power

Learn about renewable technologies that have application at any remote location and learn about the challenges and the evolution of solutions facing stand-alone systems. Discover alternatives to stringing miles of copper wire to a remote or non-stationary load.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).

## Transportation

Discover new technologies, alternative-fuel developments, and new procurement techniques that reduce petroleum consumption. Learn about legislative mandates and innovative programs that help you meet them. A special session on shipboard energy initiatives will be presented.

### How GSA Can Help Federal Agencies in Obtaining Fuel-Efficient Vehicles

GSA's Automotive Division and Fleet Programs will discuss how to use agency procurements and leasing to obtain alternative-fuel and hybrid-motor vehicles. See what will be available for FY 2008 and voice your concerns about future vehicles. Learn what programs help with the incremental costs of alternative-fuel vehicles.

### Successfully Using BioDiesel in Your Fleet

Are you being asked to use more renewable fuels in your fleet? Trying to determine whether biodiesel blends are right for your fleet? Pondering how to make the transition? This session addresses these questions and will provide the information you need to convert to biodiesel.

### Right-sizing Your Motor Vehicle Fleet for Energy Efficiency

Discover what a vehicle allocation methodology is, and how to develop one for your agency. Learn how to create a matrix to show how to accomplish your agency's mission with the right number of vehicles, the right type of vehicles, and the smallest, most energy efficient vehicles.

### EPAct/EO Reporting – Office of Management and Budget (OMB) Scorecards

Hear about reporting requirements for motor vehicle fleets and discuss OMB scorecards pertaining to alternative fuels and petroleum reduction. A discussion of the Federal Automotive Statistical Tool (FAST) reporting procedures and agency compliance for FY2007 is included.

### Motor Vehicle Manufacturer's Panel

GM, Ford, and Chrysler will show their energy efficient offerings for model year 2009 and what alternative-fuel configurations will be available in the future. Vehicles will include "normal" alternative-fuel vehicles using ethanol and CNG, plus hybrid technologies, new diesels, and plug-in hybrids.

### Alternative-Fuel Infrastructures and Assistance in Establishing Them

DOE's National Clean Cities program will review the options for alternative-fuel infrastructure for motor vehicles and discuss technical and financial assistance available for expanding this infrastructure. Best practices and tools for assessing needs and for cost-effectively building and expanding infrastructure will be presented.

### Shipboard Energy Management Initiatives

Hear how the U.S. Navy initiated a Shipboard Energy Management Pilot Study and about the potential energy savings identified. Learn how resource efficiency managers worked with shipboard personnel and the Navy's utility providers to track consumption and in-port operations for energy savings.

### Alternative Motor Vehicle Technologies

This session will focus on electrified power trains and their capabilities to reduce petroleum fuel use and emissions. Prepare fleet managers to decide how to comply with EPAct 2005 and EO 13423 requirements improving fleet energy efficiency. Learn how to increase the market for electrified motor vehicle powertrains.

### Energy Legislation – What's New and What's On the Horizon

Come for a look at current legislation affecting management of federal fleets. This will include acquisition mandates, reporting requirements, and DOE and OMB measures for agency compliance. We will also discuss pending legislation and its implications for federal fleet managers.

## Water

Where does water come from? Where does it go? Seemingly simple questions, but the answers are quite complex. This track, new to GovEnergy, will introduce the concepts of water supply and management.

### **Water Efficiency 101 – Where is the Water Now and Where is the Water Going?**

After attending this session, you will understand the EO 13423 requirements related to water. Industry experts will teach you how to assess current water usage and about methods for identifying, designing, measuring, and implementing water efficiency projects.

### **Water-Efficient Technology - Avoiding the Pitfalls**

A panel of experts will give attendees a general understanding of newer water-efficient technologies and their savings potential. Learn from those who have implemented water projects about the potential pitfalls in equipment selection and new technology implementation, and how to address the personal nature of many of the uses of water.

### **Outdoor Water Use – Are We Drowning the Plants?**

Learn the fundamentals of outdoor water use and the potential for savings. Speakers will discuss how to assess your current water needs and how to evaluate a landscape redesign or an alternate water source. Learn about methods for identifying, designing, and implementing a project.

### **Optimizing Your Water Treatment Plant and Distribution Systems**

This session will provide a firsthand explanation of how to use or reuse your water resources. Learn from those who have implemented water projects about the potential pitfalls, new technologies, and how to address the challenges of implementing a project of this nature.

## Energy 101

This track is designed for the rookies and near-beginners in our audience. Attendee feedback regularly indicates that we need to provide more entry-level information. This track is designed just for you. Come and learn the lingo, tricks, and rules of thumb that will get you going on your program.

### Energy Terminology

Come and discover the meaning and derivation of the industry's most commonly used terms. Whether you are new to the industry or a seasoned professional, learn new terminology and take away a useful reference list of acronyms used by federal agencies, utilities, energy service companies, and others.

### Renewable Energy and Sustainability

Gain a basic understanding of renewable technologies including solar, wind, thermal, alternative fuels, biomass, and biogas technologies. Learn about the design issues and challenges and see examples of successful renewable projects. Understand renewable credits and how they may be part of a large energy portfolio.

### Procurement of Energy Products and Services

Find ways to get the products and services you need. Learn how "SINS" can be a good thing at GSA. Learn of products and services such as building commissioning, energy audits, training, EMCS systems, and SCADA and fire alarm systems. See how these can be easily purchased and obtained for any federal agency.

### Metering "Demo"

This session is a demonstration of different types of meters and what information can be gained from them – besides how much your bill will be. Learn how to combine the meter information with a building energy management system and use this valuable information to improve building operations.

### EMCS "Demo"

Learn what an EMCS is and how it saves energy. Learn how to use your EMCS system to meter your facility and get better control of your building and your energy usage. This session will be combined with the metering session showing you how to gather and use your metered data.

### What Every Contracting Officer Needs to Know

A training session exploring the new energy and environmental procurement requirements. Learn references, lessons learned, success stories, and other tools that you can take with you. Acquisition planning, market research, contract administration, and other contracting topics will be discussed.

### Building Rating and Certification Programs

Hear about new energy efficiency standards for your buildings. Learn the advantages and challenges of the different rating systems such as the LEED® and Energy Star programs, and how to select the best one for your projects. Learn how the systems influence the design, construction, and operation of buildings.

### Auditing: Energy, Lighting, Water

Take a "walk-through" of your facility and learn how to evaluate your energy, lighting, and water usage. Learn what you can do to increase energy efficiency, improve lighting quality, and conserve water. Learn how simple-to-use diagnostic tools can help you find and correct buildings' energy and water systems.

### Building Life-Cycle-Cost Analysis (BLCC)

Learn about BLCC and why you need to take this important step before you undertake any federal energy project. Learn the meaning of ROI (return on investment), SIR (savings-to-investment ratio) and payback. Discover how the project's "first cost" is offset by maintenance, repairs, and ongoing utility costs.

## Acquisition

Innovative procurement strategies are crucial to mitigating the volatility of energy markets. Examine how the markets work and pick up strategies for managing risk. Learn how to use the information in your energy invoices, take advantage of demand response, and leverage your credits. Learn about procuring regulated utility services using the GSA Area-wide contract.

### You Can Read Your Bill - Now What?

Gain an understanding of what the information and data means and what you can do with it to help you manage your usage and possibly realize savings.

### Energy Markets

Curious about today's energy markets? Learn from market experts as they share insights and strategies designed to successfully navigate today's volatile energy markets. Learn what contributes to the rise in energy prices and what you can do to help stabilize your energy costs and budget.

### Utility Information Management

Interested in developing accurate utility budgets and managing them in today's volatile energy markets? Join us for a presentation that will change your mind about managing data and risk.

### Demand-Response Programs

Power prices continue to rise. Learn how demand-response programs are a valuable option for minimizing the impact of rising prices. Hear about successes, lessons learned, and issues related to project implementation.

### Selling Excess Power

Gain an understanding of how to sell excess power generated by government-owned generators to the grid. Learn from seasoned experts about how these transactions are structured, what conditions need to exist, and what the potential obstacles are and how to overcome them. Hear about successes, lessons learned, and related issues.

### Credits Trading

Green, White, Carbon. Confused about the difference between physical and financial compliance? Gain an understanding of how to purchase credits as a key component of your overall energy strategy. Learn how to use credits to your advantage, and find out where credit pricing may be headed and what regulations will impact credit trading markets.

### Procuring Utility Services

Gain an understanding of how to use the GSA Areawide contract to procure utility services offered by the regulated utility companies.

### Power Purchase Agreements (PPAs)

Gain an understanding of how to develop and execute power purchase agreements. Learn from experts how they were able to structure these complex contracts. Hear about successes, lessons learned, and related issues.

### Commodity Risk and Price Management

Gain an understanding of how to minimize the impact of rising and volatile energy prices. Learn from experts regarding the programs they use to protect utility budgets while improving their planning and forecasting capabilities. Hear about successes, lessons learned, and related issues.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).

## Technical Tours

Our optional technical tours, on Sunday, August 3, allow participants to learn about current sustainable initiatives and projects within the local area. This is an ideal opportunity to interact with your colleagues, while at the same time gain a practical and educational experience.

*Technical tours have limited space. Reservations will be taken on a first-come basis. The technical tours vary in price, please go to [www.govenergy.gov](http://www.govenergy.gov) for pricing information. Register for the tours by using the secure online registration form at [www.govenergy.gov](http://www.govenergy.gov), also check there often as details are subject to change.*

### Phoenix Convention Center 2:00 - 4:00 PM

This is a GREEN tour – great renewables and efficient energy now. The tour starts at the GovEnergy Registration Desk and proceeds to explore one of the most sustainable convention centers in the country. The facility is currently being evaluated for LEED® certification and anticipates achieving that status in the near future. Owned and operated by the city of Phoenix and built in 1969, the Center is currently undergoing a \$600 million expansion. Ongoing sustainability efforts include a comprehensive recycling program, which handled 220 tons in 2006. See some of the other progressive sustainable aspects of the conference center, including 14,000 chairs made from recycled car batteries and seat belts.

### Phoenix Northwind Plant /Chase Field 9:00 AM – NOON

This technical tour is a double play! The Northwind Plant is a combined heat and power plant that utilizes ice storage and operates a district cooling network that keeps much of downtown Phoenix comfortable. One of the largest users of the downtown plant is the Chase Field Ballpark – a covered and climate-controlled baseball field. The tour will include the ballpark itself and the adjacent ice house.

### Taliesin West 8:00 AM – NOON

Located northeast of Phoenix, Taliesin West served as Frank Lloyd Wright's personal home, studio, and campus for his architectural school. Since the early 1930s, the site, on 600 acres of preserved Sonoran Desert, has served continuously as a place where architects and apprentices learn and practice the philosophy of organic architecture. Taliesin West is central to understanding the genius of one of America's most influential architects. Learn how the site relates to the desert and experience firsthand Wright's brilliant ability to integrate indoor and outdoor spaces. Get an overview of Wright's basic theories of design, the history of the site, and the community life of the Taliesin Fellowship.

### Arizona State University and the APS Solar Test and Research Center 8:30 AM – 1:30 PM

This tour will include visiting the Arizona Public Service (APS) Solar Test and Research Center (STAR), one of the world's premier solar test and research facilities. At the STAR Center, APS helps develop and test solar technologies, striving to learn how to produce low-cost electricity from sunlight using current and emerging photovoltaic technologies. This tour will also include an overview of the university's green building and sustainability initiatives. ASU is a pioneer in campus sustainability, focusing on research, education, and problem solving related to sustainability with an emphasis on urban environments.

# AGENDA AT A GLANCE

## Sunday, August 3

9:00 AM - NOON	Optional Technical Tours
1:00 - 4:30 PM	Optional Technical Tours
4:00 PM	Free Training: Doing Business with the Federal Government
5:00 - 7:00 PM	Opening Reception in Exhibit Hall

## Special Training for Exhibitors!

### Doing Business with the Federal Government

#### August 3, 4:00 PM

This training is designed especially for private-sector contractors and service providers. The training is offered directly prior to the start of the GovEnergy Tradeshow so you can effectively put into practice the skills and knowledge gained during this session. Experts from GSA's Federal Acquisition Service, Public Buildings Service, and the Office of Small Business Utilization will provide a comprehensive overview of the federal procurement process and answer your questions. This is a valuable session for those who are new to doing business with the Federal Government as well as those who are seasoned practitioners.

## GovEnergy Trade Show

Military & Federal government funds are spent on energy efficiency, water conservation, renewable energies, finance, utilities, alternative fuels, and related products and services Under the Energy Policy Act of 2005, Federal agencies are required to reduce their energy consumption per gross square foot annually by 2 percent. Executive Order 132423 and EISA 2007 require a 30% reduction in energy consumed by 2015. In order to meet these goals, the Federal Government will need to make significant investments in energy conservation products, services and projects. The goal of GovEnergy is to assist attendees in identifying ways to meet these mandates while effectively performing their jobs. The GovEnergy Tradeshow provides a forum to discover solutions.

For more GovEnergy Tradeshow information [www.govenergy.gov](http://www.govenergy.gov) or contact Gaynielle Scott at 1-800-343-2171 or [energy2008@govenergy.com](mailto:energy2008@govenergy.com).

Opening Sunday, August 3, 5:00 PM - 7:00 PM

Monday, August 4, 7:00 AM - 7:00 PM

Tuesday, August 5, 7:30 AM - 3:30 PM

# AGENDA AT A GLANCE

## Monday, August 4

7:00 - 8:00 AM	Breakfast in the Phoenix Convention Center, West Ballroom, 300 Level													
8:00 - 9:00 AM	<b>Opening Session: Keynote Speaker R. James Woolsey</b> Mr Woolsey, formerly the Director of Central Intelligence from 1993 to 1995, is currently with Booz Allen Hamilton, where he focuses his time on energy and security issues. He is also Chairman of the Advisory Boards of the Clean Fuels Foundation and the New Uses Council, and a Trustee of the Center for Strategic & International Studies and the Center for Strategic & Budgetary Assessments. He also serves on the National Commission on Energy Policy.													
9:00 - 10:30 AM	Break													
	Finance	Metering	Renewables	Transportation	Water	Energy 101	Acquisition	Sustainability	Building Operations	Technology	Legislation	Energy Lawyers	Grand Canyon	
10:30 - NOON	Alternative Financing for Newcomers	Metering and EMCS Case Studies	Small Wind - Does It Fit Here?	How GSA Can Help Federal Agencies in Obtaining Fuel Efficient Vehicles		Energy Terminology	You Can Read Your Bill - Now What?	Meeting Federal Sustainability Goals	Low-Cost, No-Cost Actions	HVAC Technologies	Energy Independence and Security Act of 2007 (EISA)	Alternative Financing for Newcomers or Energy Terminology	Buying Efficient Products: Requirements, Tools, and Experiences	
NOON - 2:00 PM	Lunch in the Exhibit Hall													
2:00 - 3:30 PM	In Depth Look at Energy Savings Performance Contracts (ESPCs)	Getting Money for Your Metering Project's Enterprise Systems	Solar Electricity - From the Sun to the Plug	Successfully Using BioDiesel in Your Fleet	Water Efficiency 101 - Where is the Water Now and Where is the Water Going?	Renewable Energy and Sustainability	Energy Markets	Rating Your Existing Buildings	Advance Commissioning	Enterprise-Level Facility Management Systems Integration	Life Under a Carbon Cap-and-Trade System	In Depth Look at Energy Savings Performance Contracts (ESPCs)	Understanding Risks to Your Energy Delivery and Commercial Infrastructure	
3:30 - 4:00 PM	Break													
4:00 - 5:00 PM	Cutting-Edge Financing Mechanisms	Best Practices - The FEMP Guide Unveiled	Meeting Your Renewables Goals	Right-sizing Your Motor Vehicle Fleet for Energy Efficiency		Procurement of Energy Products and Services	Utility Information Management	ASHRAE 90.1	Resource Efficiency Managers (REMs)	Specialized Buildings	Executive Order 13423 and Beyond	Cutting-Edge Financing Mechanisms or Procurement of Energy Products and Services	Agency-Wide Energy Management Perspectives	
5:00 - 7:00 PM	Networking Reception in the Exhibit Hall													

Tuesday, August 5

7:30 - 8:30 AM	Breakfast in the Exhibit Hall												
	Finance	Metering	Renewables	Transportation	Water	Energy 101	Procurement	Sustainability	Building Operations	Technology	Legislation	Energy Lawyers	Grand Canyon
8:30 - 10:00 AM	An In Depth Look at Utility Energy Services Contracts (UESCs)	Metering All Things NOT Electric	One Person's Waste is Another's Energy	EPAct/EO Reporting - OMB Scorecards	Water-Efficient Technology - Avoiding the Pitfalls	Metering "Demo"	Demand-Response Programs	Green Roofs	Demand Response	Lighting	Energy Independence and Security Act of 2007 (EISA) <b>Repeat</b>	An In Depth Look at Utility Energy Services Contracts (UESCs)	Regional Issues
10:00 - 10:30 AM	Break												
10:30 - NOON	An In Depth Look at Enhanced-Use Leasing (UELs)	Enterprise Metering Systems	Use, Don't Abuse, the Earth and Water	Motor Vehicle Manufacturer's Panel	Outdoor Water Use - Are We Drowning the Plants?	EMCS "Demo"	Selling Excess Power	Sustainability Technologies	Building Diagnostics	On-Site Generation	EISA Sec. 432: Management of Energy and Water Efficiency in Federal Buildings	Government Lawyers: Working the Solution Not Causing the Problem	Synthetic and Unconventional Fuels
NOON - 2:00 PM	Lunch in the Exhibit Hall												
2:00 - 3:30 PM	Matching Game with Renewable Energy Financing	How to Build a Metering System From the Ground Up	Solar Thermal - It's Hot Again	Alternative-Fuel Infrastructures and Assistance in Establishing Them	Optimizing Your Water Treatment Plant and Distribution Systems	What Every Contracting Officer Needs to Know	Credits Training	Energy Management for Sustainability	Save Energy Now and Efficient Data Centers	Fuel Cells: Clean Technology Success Stories	New, Renovated, or Leased Federal Buildings	Energy Lawyers Working the Solution - Working Group Meeting	Professional Development and Certification Programs
3:30 - 4:00 PM	Break												
4:00 - 5:00 PM	The Lender's Perspective on Alternative Financing	Web-Based Facility Management Systems	What Will Power Your Future?	Shipboard Energy Management Initiatives		Building Rating and Certification Programs	Procuring Utility Services	Reducing Carbon Footprints	Indoor Air Quality (IAQ)	Top 10 Technologies	Environmental Management Systems	Energy Lawyers Working the Solution - Working Group Meeting	Changing the Culture
6:00 - 8:30 PM	<p><b>Tuesday Night Networking Event: Take Me Out to the Ballgame!</b></p> <p>Our Tuesday night networking session begins with baseball tailgate snacks and a cash bar in the Hyatt Grand Atrium. Join your colleagues to mingle before we walk over to Chase Field. GovEnergy has teamed up with the Arizona Diamondbacks to bring you a great ticket deal for Tuesday's game between the Diamondbacks and Pittsburgh Pirates. Buy your tickets today for half price at <a href="http://www.govenergy.gov">www.govenergy.gov</a>. We have reserved two sections in the stadium exclusively for us. The game starts at 6:40 p.m. In an effort to keep GovEnergy as green as possible, we have selected a venue you can walk to in less than 10 minutes.</p> <p>Worried about the heat? No problem! Chase Field is one of the few ballparks in Major League Baseball that has a retractable roof. That's right, it might be hot outside, but it's going to be a comfortable 72 degrees while you watch the game. See you there!</p>												

# AGENDA AT A GLANCE

## Wednesday, August 6

7:30 - 8:30 AM	Breakfast in the Phoenix Convention Center, West Ballroom, 300 Level												
	Finance	Metering	Renewables	Transportation	Water	Energy 101	Acquisition	Sustainability	Building Operations	Technology	Legislation	Energy Lawyers	Grand Canyon
8:30 - 10:00 AM	Leveraging Incentive Programs for Federal Projects	Military Metering	Large Projects - Size Matters	Alternative Motor Vehicle Technologies		Auditing: Energy, Lighting, Water	Power Purchase Agreements (PPAs)	Case Studies of Sustainable Building Performance	Impact of Human Behavior	Technology Innovations in Energy Security	Department of Defense Energy Programs	Power Purchase Agreements (PPAs)	Fuel Cell Deployment
10:00 - 10:30 AM	Break												
10:30 - NOON	Measurement and Verification	Using Your Enterprise Data Effectively	Remote Renewable Power	Energy Legislation - What's New and What's on the Horizon		Building a Life-Cycle-Cost Analysis (BLCC)	Commodity Risk and Price Management	Impact of Existing Buildings	Steam Decentralization	New Innovations in LEDs	New Initiatives at Federal Agencies	New Initiatives at Federal Agencies	Building Modeling
NOON - 2:00 PM	Closing Luncheon in the Phoenix Convention Center, West Ballroom, 300 Level												

## Sustainability

Sustainability is the concept of trying to avoid burdening our children with the consequences of our actions. Learn how to reduce our energy impact and environmental footprint. We will review goals, tools, actions, and methods to enable continual improvement towards zero-impact.

### Meeting Federal Sustainability Goals

Fifteen percent of the federal building inventory must meet green goals and mandates. Learn about the specific high-performance and sustainability aspects of EO 13423 and the Energy Independence and Security Act.

### Rating Your Existing Buildings

Come to this session to learn from the experts how to use LEED®, Energy Star, and Green Globes to rate your existing building inventories. Investigate the strengths of each approach and learn how to use these tools to continually improve performance and reduce your footprint.

### ASHRAE 90.1

EPA Act 2005 established federal building performance standards requiring energy consumption levels that are at least 30% better than the current ASHRAE Standard. ASHRAE issued a revised version of the standard in 2007, raising the sustainability bar for all federal buildings. Come to this session to learn about the impacts.

### Green Roofs

Bald may not be so beautiful when it comes to roofs. If properly designed, a green roof can be safe, dry, and warm for the building inhabitants as well as for the critters that will call it home. Learn about planning, design, installation, and maintenance aspects of this newly popular, but not so new technology.

### Sustainability Technologies

Attending this session will provide you with a plethora of cool solutions for your prickly sustainability challenges. By applying the latest innovations and technologies you may find that being green doesn't cost any more than being typical. You will learn about many hot technologies that used to be cutting edge but are now commonly available and often applied.

### Energy Management for Sustainability

EO 13423 and EISA have a number of goals and mandates focused on sustainability and reducing our energy and environmental footprint. Learn the tools and ideas that will help you manage your energy to meet the goals. Actions that may work in one case may not work in another. Learn what to do and when to do it.

### Reducing Carbon Footprints

How big IS your footprint? Do you know what goes into its measure? You're not alone – most people don't. In this session we will learn what actions reduce your total footprint and what actions only seem to. These and other topics of interest will be addressed.

### Case Studies of Sustainable Building Performance

There have been some remarkably successful "green" buildings. Come to this session and see what worked, where it worked, and how you might apply the lessons.

### Impact of Existing Buildings

It seems easy to build a green building from scratch. Come to this session and see what you can do to bring your existing structures into the 21st century.

## Building Operations

Get out of the dark and into the sunshine. Rejuvenate your buildings and infrastructure with proven approaches while decreasing energy intensity, improving energy efficiency, and reducing your environmental footprint.

### Low-Cost, No-Cost Actions

The federal government is not the only big energy user in town. Hear how other upscale users are addressing and managing their energy usage and costs through low-cost, no-cost energy conservation measures and O&M practices. Learn how energy managers are taking action to meet energy goals.

### Advanced Commissioning

Learn how to incorporate the requirements of ASHRAE Guideline 1 and how to accomplish performance verification testing on systems such as variable-air-volume equipment. Discover how to increase efficiency and decrease the energy cost of operating HVAC through advanced commissioning of building systems.

### Resource Efficiency Managers (REMs)

Understand what an REM does and how to obtain REM services. Hear experienced REMs showcase their successes, and how they have saved energy and money at federal sites. Case studies will demonstrate specific projects, including UESC development and cross-cutting efficiency upgrades.

### Demand Response

Learn about a utility-sponsored demand-response (DR) program and how to participate, including metering and equipment requirements. Understand how to determine whether business and operational requirements can support DR participation. Hear about lessons learned from two actual case studies.

### Building Diagnostics

Building diagnostics identify operational problems, whether programmed into controllers and operated in real time, or data analyzed after the fact. Review building diagnostic systems and practical field experience with implementing diagnostic applications.

### Save Energy Now and Efficient Data Centers

Discover the action-oriented benchmarking tool used to determine the efficiency of data centers. Also become familiar with the DOE's Save Energy Now initiative. Interact with energy managers and operators of federal data centers to learn what has been done in the past and what the future holds.

### Indoor Air Quality (IAQ)

Properly implemented operational practices can control mold, legionella, asbestos, and construction-related pollutants. Learn advanced techniques and methods for compliance with ASHRAE ventilation and filtration standards, earning LEED® Green Building Credits, and meeting building insurers' requirements.

### Impact of Human Behavior

Find out how building occupants respond to changing building conditions. Discover the way people think and act about conservation. Learn some proven tips for motivating personnel to assist in an energy awareness program. Ask the tough question: How do we measure the success of an energy awareness program?

### Steam Decentralization

Losses in central steam systems can be costly. Rein in your steam system and make it more efficient: When to install high-efficiency boilers, how to improve the efficiency of central underground distribution systems, and how to control steam usage. Hear the advantages and the project economics of decentralization.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).

## Technology

Come away from these sessions with valuable information about technological innovations and new energy conservation strategies across the wide range of facilities managed and owned by the federal government.

### HVAC Technologies

HVAC systems are a major energy consumer and are usually the largest contributor to peak demand during hot weather. This session will discuss newer technologies – aerosol duct sealing, variable-refrigerant volume, and dedicated outdoor air systems – that can reduce overall energy consumption and peak demand.

### Enterprise-Level Facility Management Systems Integration

Learn the technological advancements that allow enterprise-level facility management systems to interface with commercial off-the-shelf systems, services, and back-office database applications. Explore the tools used every day for data mining and aggregation to unlock the secrets held in your facility's database.

### Specialized Buildings

Explore the interesting and unique challenges of specialized, energy-intensive buildings such as labs, hospitals, and others. Learn about the advantages of new energy-conservation technologies, strategies, and innovative applications developed for these circumstances, and how they can help you reduce energy consumption without adversely affecting your mission - in non-specialized buildings too.

### Lighting

Lighting loads can be a building's largest year-round energy consumer. This session will discuss some newer technologies that can reduce that load, as well as some older technologies that are not well understood and may be underutilized – HID lighting dimmers, lighting controls, and hybrid daylighting using fiber optics.

### On-Site Generation

Delve into the latest options for on-site generation and while aligning with related EO 13423 requirements. The experts will discuss technologies, applications, life cycle evaluations, sustainable performance, and environmental footprints.

### Fuel Cells: Clean Technology Success Stories

As a result of EO 13423, federal agencies are required to reduce greenhouse gas emissions by 3% each year through 2015. Fuel cells are a viable technology that combines environmental benefits with improvements in reliability and efficiency. Project planning, financing, and installation issues will be covered in this session.

### Top 10 Technologies

Explore which technologies you should look at first after you've decided to start implementing energy-saving measures, considering where your facility is and what kind of contracting method you'll be using.

### Technology Innovations in Energy Security

Learn what you can do to begin scrutinizing your on-site energy supply. Learn from experts who have selected, engineered, procured, and constructed on-site technologies that will be ready and able to deliver energy security to satisfy the demand during adverse conditions.

### New Innovations in LEDs

Light-emitting diodes can save significant amounts of energy. Since LEDs are fundamentally different from traditional lighting, current standards and evaluation methods no longer apply. We will discuss what DOE's demonstration has discovered and how they are changing the standards. We will also cover LED products that are available now and what will be available soon.

## Legislation

These sessions will investigate the broader aspects and implications of federal energy programs. The Energy Independence and Security Act of 2007 (EISA) will be covered in depth, as will breaking news and subjects.

### Energy Independence and Security Act of 2007 (EISA)

More than 30 provisions in EISA touch federal energy planning, requirements, management, and operations. Learn about new performance requirements for federal buildings, energy management mandates, energy reduction goals, changes to ESPC contracting, and requirements for federal fleets. Also hear about the energy provisions Congress is considering for adoption this year.

### Life Under a Carbon Cap-and-Trade System

Its 2010: Carbon cap-and-trade system legislation has been enacted. How are allowances distributed and to whom? How does the auction system work? Who sets the GHG limits and distributes the credits? Who manages the trading system? How are credits bought and sold? What's the impact on energy prices?

### Executive Order 13423 and Beyond

Did your agency get green, yellow, or red on the last scorecard? How can you get green or stay green next time? Understand how to achieve the goals. Learn what EISA says about energy budgeting, life cycle costing, and retention of savings.

### Energy Independence and Security Act of 2007 (EISA) (Repeat of Session #1)

More than 30 provisions in EISA touch federal energy planning, requirements, management, and operations. Learn about new performance requirements for federal buildings, energy management mandates, energy reduction goals, changes to ESPC contracting, and requirements for federal fleets.

### EISA Sec. 432: Management of Energy and Water Efficiency in Federal Buildings

Section 432 of EISA contains a number of provisions impacting energy and water efficiency in federal buildings. Understand the requirements for designating energy managers, comprehensive evaluations, recommissioning, implementation of efficiency measures, and follow-up on each measure. Learn what is a "covered facility" and how the new Web-based tracking and benchmarking system should work.

### New, Renovated, or Leased Federal Buildings

EISA created new requirements for federal buildings: performance standards to reduce fossil fuel energy use; efficient designs and systems for major renovations; Energy Star labels for leased buildings; and the new High-Performance Green Federal Buildings Office in GSA.

### Environmental Management Systems

EO 13423 requires all agencies to address environmental aspects of energy and transportation in their facilities and operations. Learn how to develop an EMS to comply with performance and reporting requirements. We will explain the "Plan, Do, Check, Act" model, which uses a standard process to determine progress, make improvements, and ensure continual improvement.

### Department of Defense Energy Programs

The DOD Energy Program Manager will present results of their energy efficiency efforts from FY 2007, discuss current policy, and offer insights into their multi-faceted approach to energy management.

### New Initiatives at Federal Agencies

Learn about the Air Force Model Energy Base Initiative, the Veterans Administration's new Energy, Environment and Transportation Team, and the Department of Energy's new TEAM Initiative.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).

## Energy Lawyers

All new for GovEnergy! These sessions are for government contract attorneys and contracting officers who are part of project implementation teams. Energy legal professionals will learn about contracting vehicles, technical issues, and authorities, and discuss common challenges. For seasoned professionals, we'll offer new developments and initiatives and a unique opportunity for professional networking.

### **Alternative Financing for Newcomers or Energy Terminology**

See Finance and Energy 101 tracks for descriptions.

### **In Depth Look at Energy Savings Performance Contracts (ESPCs)**

See Energy 101 track for description.

### **Cutting-Edge Financing Mechanisms or Procurement of Energy Products and Services**

See Finance and Energy 101 tracks for descriptions.)

### **An In-Depth Look at Utility Energy Services Contracts (UESCs)**

See Finance track for description.

### **Government Lawyers: Working the Solution, Not Causing the Problem**

Exchange information about seemingly insurmountable barriers to achieve energy program goals. Share successes, develop synergy, and obtain insight into special agency issues. The panel will discuss methods in alternative financing and contracting, and will report from a recent utility working group meeting focused on addressing barriers.

### **Energy Lawyers Working the Solution – Working Group Meeting**

This session will initiate a working group for attorneys providing counsel to the federal energy management world. Objectives will include establishing a charter, clarifying priority legal issues, discussing solutions or creative successes, and identifying areas requiring future legislation. The group's work will greatly benefit agency energy managers tackling the amorphous boundaries of energy contracts.

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### **Power Purchase Agreements (PPAs)**

See Acquisition track for description.

### **New Initiatives at Federal Agencies**

See Legislation track for description.

## Grand Canyon

Like hikers in the Grand Canyon, energy managers face a number of unforeseen obstacles. This backpack full of useful ideas gives the intrepid energy explorer tools to meet energy goals and change corporate culture.

### **Buying Efficient Products: Requirements, Tools, and Experiences**

Federal buyers are required by legislation and regulation to purchase energy efficient products, and federal supply services are required to supply them. We will discuss the policy requirements, tools that are available to federal buyers to help them comply with these requirements, and findings from analysis of current agency purchasing practices.

### **Understanding Risks to Your Energy Delivery and Commercial Infrastructure**

Understand your vulnerabilities to disruption in energy supply and delivery and how to assess the risks. Learn assessment methodologies from industry experts who have addressed energy security through a variety of solutions to achieve mission assurance.

### **Agency-Wide Energy Management Perspectives**

Senior energy managers will share perspectives regarding their energy programs: Why this matters, how it relates to and supports the mission, what teaming is essential, what measurement data to collect to direct behavior in the intended direction, and implementation strategies.

### **Regional Issues**

The rapidly growing population of the U.S. Southwest presents many resource challenges. Learn how the region addresses limited water and power supplies and deals with the “urban heat bubble effect.”

### **Synthetic and Unconventional Fuels**

This session will describe what synthetic/unconventional fuels are and take a detailed look at some private-public partnerships currently working to develop commercially viable synthetic/unconventional fuels. Addressed will be coal-to-liquids, gas-to-liquids, and synthetic crude oil from extra-heavy oil and sticky bitumen, as well as current synthetic fuel applications.

### **Professional Development and Certification Programs**

Discover the benefits, eligibility, costs, and time requirements for a range of professional training, education, and energy-related certification programs. Attendees will learn about these programs by moving from table to table throughout the session

### **Changing the Culture**

Participants will gain insight into culture-changing techniques and concepts required to move all aspects of an organization toward increased acceptance of energy-saving practices and environmental awareness.

### **Fuel Cell Deployment**

Fuel cells offer on-site critical load and utility-scale power generation that is energy efficient, reliable, clean, and versatile in the use of renewable resources. This session will cover successful government procurement contracts and tax investment financing strategies for fuel cell deployment.

### **Building Modeling**

In this session we will discuss several building modeling software packages. Learn to benchmark building performance, optimize alternative energy conservation measures, and assess the resulting impact on building performance.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).

**The Association of Energy Engineers Training  
Comprehensive 5 Day Training Program for Energy Managers  
(prep: CEM Certification)  
July 28 - August 1, 2008**

**Earns 3.6 CEU / 36 PDH**

This special 5-day seminar provides an in-depth, comprehensive learning and problem-solving forum for those who want a broader understanding of the latest energy cost reduction techniques and strategies. The program begins by examining the basic fundamentals within all key areas of energy management. From there, the instructors systematically move to a “working level” knowledge the specific principles and techniques needed to really get the job done.

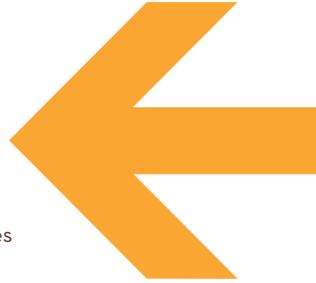
**To Register:** <http://www.aeecenter.org/seminars>

**Energy Management in Federal Facilities  
July 31 - August 1, 2008**

**Earns 1.6 CEU / 16 PDH**

Whether you are a federal energy manager or private provider of energy-related services for federal facilities, this seminar will show you the specifics of how to implement the requirements of EISA 07, EPAct 05 and E.O. 13423 as they relate to federal facilities. You will leave this program with a clearer understanding of the relationship of EISA 07, EPAct 05 and the E.O. with the basic fundamentals of energy efficiency improvement. The highly experienced team of instructors will sort out and explain the important federal energy policy changes and new requirements currently mandated.

**To Register:** <http://www.aeecenter.org/seminars>



## GovEnergy is Green

GovEnergy has become the leader in producing award-winning, federally sponsored green meetings. We are committed to leaving the smallest environmental footprint possible during our time in Phoenix.

We selected Phoenix partly because of its proximity to the airport. The hotels are easily accessible by shuttle service, so you don't need a car. We encourage you to explore by walking and to enjoy the blooming renaissance in downtown Phoenix.

### GovEnergy green efforts include:

- Offsetting the temporary increase in pollution caused by the conference and related travel by purchasing emissions credits from a clean-running private firm.
- Hosting the Tuesday evening networking reception in the atrium foyer of the Hyatt, just steps from the Convention center. No need to drive or take a cab. And our optional Tuesday night baseball stadium event is only an 8-minute walk from the hotel, so you avoid crowded parking lots and high parking fees.
- Including green requirements in our hotel and convention center contracts. The new convention center has applied for LEED® certification and uses state-of-the-art energy conservation and sustainability practices. Even the chairs are made from re-cycled seat belts!
- Providing conference information electronically via e-mail or Internet site.
- The majority of GovEnergy registrations are paperless.
- Taking measures to reduce paper waste at check-in (such as using electronic registration forms, and computerized systems for issuing name badges).
- Recycling our name badges and request that participants return them at the end of the meeting, make collection easy: Just drop them in the bins at our closing luncheon.
- Using electronic sign boards at the convention center to reduce paper waste.
- Reducing the size of our printed brochure in half, and we print our materials using soy-based ink and recycled paper (minimum 30% recycled).
- Keeping the handouts to a bare minimum, we encourage presenters to use PowerPoint presentations and avoid handouts, and we then post the GovEnergy presentations on our WEB site.
- Using electronic branding (called "gobos") to promote GovEnergy instead of paper or cloth. These are reused every year.

Register on-line at [www.govenergy.gov](http://www.govenergy.gov).





## Additional Information

Register online at [www.GovEnergy.gov](http://www.GovEnergy.gov) through our secure and encrypted website. Last year, the majority of our attendees used web registration and our goal is a paperless registration process.

Unable to register via our website, please contact us at [energy2008@govenergy.com](mailto:energy2008@govenergy.com) or at 800-343-2171 and we will email a pdf for you to download and fax/email back. We will email you a confirmation when your registration is received.

## Register online at [www.govenergy.gov](http://www.govenergy.gov) NOW!

- Early Bird Rate: \$475 Available to everyone until June 13, 2008. To receive the Early Bird rate, individuals must pay by the Early Bird cut off date.
- Federal Rate\*: \$495 Available while online registration is open through July 25, 2008. After online registration closes, on-site registration is \$595.
- Regular Rate / Non-Fed / On-site: \$595
- Daily Attendee Rate: \$245

\*Note: Attendee must be an employee of the Federal Government to qualify for the Federal Rate. Government Contractors are not considered to be Federal Attendees and are encouraged to register by the Early Bird deadline of June 13, 2008.

All participants in GovEnergy sessions, meal functions, social events, and other programs must be registered for the event. Only fully registered attendees will be allowed in the sessions. Tickets will be sold at the on-site registration table for guests to attend meal functions, social events, or tours.

## Payment Information

Please make your check or purchase order payable to: "GovEnergy." Checks must be drawn on a U.S. bank.

### Wire Transfer or Electronic Funds Transfer

If your registration fee will be paid by wire transfer or electronic funds, please obtain prior approval by contacting John Bassett at [jbassett@mc-2.com](mailto:jbassett@mc-2.com).

## Cancellation Policy

All cancellations between June 14th and August 6th will be charged a cancellation fee of \$50.00. All cancellations must be submitted in writing. You may substitute attendees at any time by sending written notice of the change by July 25, 2008. After July 25, 2008, please bring the information to the on-site registration desk at GovEnergy. Send written notice of cancellation or changes by email to [energy2008@govenergy.com](mailto:energy2008@govenergy.com); by fax to 770-739-4406; or by mail to: GovEnergy, c/o MC2, Gaynielle Scott, 500 Interstate West Parkway, Lithia Springs, GA, 30122.

If you have any questions, call 800-343-2171 (Monday - Friday, 9:00 a.m.-5:00 p.m. Eastern), or email: [energy2008@govenergy.com](mailto:energy2008@govenergy.com)

## Special Needs

We will make every effort to accommodate special needs. Please indicate your needs on your registration form and we will confirm receipt by return email.

## Questions?

Call Gaynielle Scott at 800-343-2171, or email [energy2008@govenergy.com](mailto:energy2008@govenergy.com).



GSA Events and Operations  
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