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The **FEMP MONTHLY UPDATE** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the **UPDATE** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The **FEMP MONTHLY UPDATE** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

DOE BULLETIN BOARD

Short Term Energy Outlook, Energy Information Administration (EIA), August 2002.

The average spot West Texas Intermediate (WTI) price of oil in July was relatively high, about \$27 per barrel. The Organization of Petroleum Exporting Countries basket price averaged more than \$25 per barrel for the first time in over a year; the basket price has been above \$22 per barrel for five straight months, since March 8, 2002.

July also saw the first increase in average motor gasoline prices since April – 1.5 cents per gallon. Prices remain stable and have been in the \$1.38-\$1.40 per gallon range from April to July 2002. Abundant gasoline production and imports have helped contain prices this driving season, even as demand reaches record highs.

Natural gas spot wellhead prices have stabilized around \$3.00 per thousand cubic feet after a volatile spring/early summer. One factor affecting the price of natural gas is the volume of working gas in underground storage. By July's end, levels were about 15 percent higher than 2001, and about 17 percent above the previous 5-year average for that month. Natural gas demand is projected to increase by 3.0 percent over 2001 levels in 2002, and by another 2.8 percent in 2003.

Total petroleum demand in 2002 is expected to average 19.72 million barrels per day, an increase of 70,000 barrels per day, or 0.4 percent, from last year. Whereas during the first half of 2002, total demand fell 1.2 percent compared with the same period in 2001, EIA expects demand to climb 1.8 percent in the second half of 2002. Demand growth is expected to continue in 2003 among all of the major petroleum products groups.

Oil Prices Near \$30 a Barrel, a 15-Month High, New York Times, August 20, 2002.

The *New York Times* reports that crude oil prices reached nearly \$30 per barrel on August 19th, their highest level in 15 months. The news source commented that reports that the United States may invade Iraq and new evidence that oil inventories

CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

Congress has been on recess during the month of August and will return after the Labor Day Holiday.

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STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

- Refer to www.eren.doe.gov/femp/resources/initiatives.html – Legislative Databases

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STATUS OF PENDING APPROPRIATION BILLS OF INTEREST TO FEMP

- Refer to www.eren.doe.gov/femp/resources/initiatives.html – Legislative Databases
- See [Attachment A](#) – FY 2003 Appropriations Chart

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NEW LEGISLATIVE INITIATIVES OF INTEREST TO FEMP

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HEARINGS OF INTEREST OF FEMP

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DOE BULLETIN BOARD

are below 2001 levels have contributed to increased prices.

WHAT'S NEW ON THE FEMP WEBSITE?

Within the Super Energy Savings Performance Contracts section there is information pertaining to the new technology-specific Super ESPC: Biomass and Alternate Methane Fuels Super ESPC. See www.eren.doe.gov/femp/financing/esp/biomass.html. Information about the conclusion of Energy 2002 and beginnings of Energy 2003 can be found at www.eren.doe.gov/femp/newsevents.html.

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FEDERAL AGENCY ACTIVITIES

FEDERAL ENERGY REGULATORY COMMISSION (FERC)

The Federal Energy Regulatory Commission released a proposal to create a standard market design (SMD) for electricity market participants. The plan is similar in nature to the arguably successful Pennsylvania-New Jersey - Maryland Interconnection. The SMD rules were created to discourage participants from using market power to control power prices

and to increase the reliability of the electric grid. FERC has issued a 75-day review and comment period prior to the rules being finalized and implemented by September 2004. The proposed rules set forth a nationwide \$1,000 MWh price cap, create a single transmission tariff, require that regional boards ensure the construction of sufficient transmission and generation infrastructure, and require regional forecasts of future demand. FERC Chairman Pat Wood strongly supports the new rules, stating "These clear rules and vigilant oversight under a uniform system will replace the obsolete patchwork that we have today." California and other Western states are not pleased with the SMD, and California Governor Gray Davis (D) summed up their sentiment by saying, "It gives the generators a free ride. It tramples on states rights. It does nothing to punish generators that don't play by the rules. And it fails to address the market conditions which led to manipulation by Enron and other generators." Since the release of the proposal, a delegation of 15 states has rallied against the rules. (Source: *Reuters*, July 31, 2002 and *Greenwire*, August 1, 2002)

The California Independent System Operator (Cal ISO) responded to a FERC order issued in July requesting that the ISO restructure its governing board into a two-tiered system with an independent board authorized to make decisions and a stakeholder board to advise decision makers. Voting on August 7 to defy the commission's request, the Cal ISO claimed that the order would be a violation of California law. On August 16, FERC sued the Cal ISO for ignoring the order. (Source: *Reuters*, August 7, 2002 and *Greenwire*, August 19, 2002)

Upon the August 13 release of a 103-page report investigating whether energy market manipulation in Western states may have occurred in 2000-2001, FERC launched a formal investigation into market manipulation in Western states. The initial report is one step closer to revealing that the volatile market was driven in part by manipulation, and by shortages of electricity and poor marketplace structure. Conclusions made in the final report must be approved by the commission, and may result in an increase in the amount of refund to California energy consumers. FERC has been criticized with acting slowly on refunding California customer for the \$8.9 billion in electricity overcharges during 2000 and 2001. Governor Gray Davis hinted that a resolution before the state's gubernatorial election in November was necessary. FERC Chairman Pat Wood responded to this statement by claiming "We're an independent agency. We don't know what the political timelines are." (Source: *Fresno Bee*, August 1, 2002 and *Wall Street Journal*, August 13, 2002)

Public Utility Commissions across the United States are initiating formal inquiries, appointing task forces, and monitoring the financial activities of local utility companies following the release of

FERC's July 31 order that proposes to link the country's segmented energy markets into a single system. State agencies claim that the FERC order will compromise state authority over the electric market. The Minnesota Public Utility Commission is investigating Xcel Energy Inc. to determine how the local Utility, Northern States Power Co, will be influenced by the ever-growing financial duress of Xcel's wholesale-power generator, NRG Energy Inc. New Jersey Governor James McGreevey (D) established a task force to probe how utilities in the state accumulated almost \$1 billion in costs by purchasing power. (Source: *Wall Street Journal*, August 15, 2002)

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DEPARTMENT OF ENERGY (DOE)

DOE and USDA's sixth Biomass Research and Technical Advisory Committee meeting took place on August 1 in Arlington, Virginia. Fourteen of the 26 committee members representing biomass organizations, affiliations, associations, and industries attended the meeting. Key speakers included: Mark Rey, Department of Agriculture Under Secretary for Natural Resources and Environment; Katherine Hamilton from the American Bioenergy Association; and Larry Schafer from the Renewable Fuels Association. Committee members developed a bioenergy and biobased products "vision statement" with supporting goals for biomass products, fuels, and power. The Committee agreed to develop a Vision report based on their discussions by the next committee meeting scheduled for September 4-5. View the September meeting announcement in the *Federal Register* at: frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=2002_register&docid=02-20568-filed

Department of Energy Secretary Spencer Abraham recently issued an order to permit power to flow back and forth on the Cross Sound Cable lines between New Haven, Connecticut and Long Island, New York, in the event of an emergency power outage. The temporary power flow will be a last resort after appealing to the public to conserve, terminating service to interruptible customers, and employing voltage reductions. The order expires on October 1, 2002. (Source: www.energy.gov)

The members of the Northwest Bioproducts Research Institute, including the DOE's Pacific Northwest National Laboratory, the DOE's Idaho National Engineering and Environmental Laboratory, Washington State University, and the University of Idaho, are joining forces with industry groups, processors, and growers to form a multi-disciplinary research and development program to develop new methods for converting agricultural and food processing residue and wastes into "bio-based" fuels, power, and industrial products. Members of the consortium will also seek public and private support for new research facilities to aid in the development of these methods. (Source: *EarthVision Environmental News*, August 16, 2002)

The National Renewable Energy Laboratory (NREL) has released an updated version of its Energy-10 software program that helps building designers estimate the energy life-cycle costs of a new building. The new Version 1.5 contains upgrades such as discounted cash-flow evaluation of a building over its lifetime and a more powerful graphing package. The software's life-cycle cost feature helps designers make the case for including energy efficient features in a building by evaluating their cost effectiveness, illustrating how buildings will use energy, and showing ways to reduce energy consumption. Energy-10 Version 1.5 is the result of a collaboration among NREL, Lawrence Berkeley National Laboratory, and the Berkeley Solar Group and is distributed by the Sustainable Buildings Industry Council. For more information, go to www.sbicouncil.org/enTen/index.html. (Source: *EarthVision Environmental News*, August 5, 2002)

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ENVIRONMENTAL PROTECTION AGENCY (EPA)

Twelve universities will share more than \$5 million provided by the EPA's Science to Achieve Results program to further pollution prevention, efficient resource use, and sustainability in the

industrial manufacturing and processing sector. The universities will use the funds to conduct research into the development of cleaner industrial manufacturing and processing technologies that will help companies become more competitive by lowering resource and energy needs and reducing the costs of waste and emissions controls. (Source: *EarthVision Environmental News*, July 29, 2002)

ATLANTA REGION

No news of interest to FEMP.

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BOSTON REGION

► *General Energy Conservation/Building Construction/Retrofit Projects*

The Binghamton Federal Building in Binghamton, New York, recently became the first Federal facility in the country to be powered entirely by wind-generated electricity. One hundred percent of the building's energy needs, approximately 500,000 kWh per year, is being supplied by a wind farm in upstate New York. The General Services Administration (GSA) was recognized for its groundbreaking purchase of New Wind Energy™ for the building. The wind energy is being supplied to the Binghamton Federal Building as an addendum to GSA's electric supply contract with Select Energy. (Source: GreenBiz.com, August 14, 2002)

► *Utility/DSM Activities*

GSA is seeking a supplier of natural gas for various Federal facilities located in New England. The *Commerce Business Daily* announcement states, "It is the desire of the U.S. Federal Government to secure the lowest cost for natural gas and the transportation of such natural gas to the Federal facilities utilizing the most direct pipeline into the serving Local Distribution Company." For more information, consult with Linda Collins at 202-927-1139 and refer to Solicitation Number GS-00P-02-BSC-0201.

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CHICAGO REGION

► *Infrastructure*

The Air Force has announced plans to construct a compressed natural gas (CNG) fueling station at Wright-Patterson Air Force Base in Ohio. To obtain additional information on Solicitation Number F33601-02-P-0045, contact Barbara Jemmott at 937-257-6146, extension 4199.

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DENVER REGION

No news of interest to FEMP.

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PHILADELPHIA REGION

No news of interest to FEMP.

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SEATTLE REGION

► *Solar and Renewable Energy Projects*

The Air Force has announced the award of a contract to design and construct wind generators to a company in Anchorage, Alaska. A \$3,784,131 million contract was awarded in late July to Swanson General Contractors; for additional information, contact Johnny Bellina at 321-494-9943 and refer to Contract Number F08650-02-C-0054.

► *Alternative Fuel Vehicles*

Elmendorf Air Force Base in Alaska plans to convert a diesel bus to operate on compressed natural gas. The project involves the conversion of a Blue Bird bus to a dedicated Cummins 5.9G-230 CNG or equal engine. The converted vehicle will be from the base's existing fleet. For more information, contact Eric Heaton at 902-552-4505 and refer to Solicitation Number F6550102TA027.

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STATE AND LOCAL GOVERNMENT ACTIVITIES

ATLANTA REGION

No news of interest to FEMP.

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BOSTON REGION

► *General State Activities*

Schools in the State of Massachusetts are becoming more aware of options to generate and save more energy. The Renewable Energy Trust and the State of Massachusetts will award funding in an amount up to \$630,000 to selected green construction proposals submitted by school districts in Beverly, Salem, Somerville, Waltham, and Williamstown. At South Elementary School in Waltham, the photovoltaic panels will produce 18 kilowatts of renewable power and energy not utilized by the school will be routed back to a servicing utility. Students may take an active role in tracking the amount of solar energy produced through photovoltaic panel installations. Bill Reed of the U.S. Green Building Council said that green building can incur a 40 to 50 percent reduction in energy costs. (Source: *Seattle Daily Journal of Commerce Online*, July 25, 2002)

The State of Vermont recently passed legislation authorizing net metering from wind, solar, renewable energy-powered fuel cells and methane systems. Effective July 1, the law permits utilities to be credited with receiving up to 150 kW of renewable electricity. (Source: *Leap Letter*, May/June 2002)

Massachusetts Senator John Warner (R) is expressing opposition to proposed off-shore wind turbines in Nantucket Sound. Claiming that plans for a test tower have received insufficient support from the public, Mr. Warner sides with many environmental groups on the position that the project will have a negative "long-term impact on the natural resources of the area." Given the little governmental oversight in the area, several environmental groups including the Alliance to Protect Nantucket Sound warn that "the public will pay" for any deleterious effects of the wind tower. Project developer Cape

Wind Associates received a permit to build the test tower before the end of this year and hopes to get a permit for the wind turbines within 14 months. (Source: *Boston Globe*, August 14, 2002)

▶ *Status of Utility-Related Activities*

The Burlington Electric Department in Vermont will purchase 9 MW of power derived from a wind farm in Manchester, Vermont. The electric department vowed earlier this year to engage in renewable energy projects “whenever prudently possible.” Catamount Energy and Equinox Wind Partners will coordinate the project. (Source: *Greenpower Marketing Monthly Update*, July 2002)

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CHICAGO REGION

▶ *General State Activities*

The State of Missouri enacted a bill establishing net metering standards that will take effect by August 28, 2003. The Public Service Commission will establish rates, conditions, and contract terms. (Source: *EnergyCentral.com*, H. 1402)

Wisconsin Energies and the Customers First! Coalition have joined forces to establish the Energy Building Code Collaborative (EBCC), an organization designed to review residential, commercial, and rental building codes and suggest technical changes that will enhance energy efficiency savings. Lee Cullen, attorney for the Customers First! Coalition said of the EBCC, “There’s no question that our state needs more energy. But it’s also critical that we balance building additional infrastructure with using energy more effectively. Improving energy efficiency saves customers money and protects the environment. We believe that this initiative is an innovative way to achieve a balanced energy policy.” (Source: *PR Newswire*, August 6, 2002)

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DENVER REGION

▶ *General State Activities*

The Santa Fe Housing Trust recently broke ground on its Arroyo Chico project, the first affordable passive solar project in Santa Fe. The passive solar features of the 17 homes in Arroyo Chico will reduce homeowners’ energy costs, and all units are already sold. The project was made possible by a grant from the Federal Home Loan Bank. (Source: *The Santa Fe New Mexican*, August 13, 2002)

▶ *Status of Utility-Related Activities*

Energy regulators in the State of Arizona may vote by mid-August on whether to delay requiring state utilities to sell or transfer ownership of their power plants. Currently, state utilities may wait until January 1, 2003, to take action, but the date may be pushed back to July 1, 2004 due to concern over the stability of the wholesale energy market in California. Arizona Cooperation Commissioner Marc Spitzer charges that deregulation has failed in the state because no residential customers have signed up to switch providers. (Source: *Reuters*, July 29, 2002)

Former Montana State Public Service Commissioner Tom Schneider (D), released a report claiming that the deregulated electric market may cost customers of NorthWestern Energy nearly \$300 million over the next five years. (Source: *Billings Gazette*, July 30, 2002)

Designed to educate electric consumers about alternative energy, customer service, and pricing choices available from suppliers in the state, the Texas Public Utility Commission’s electric choice

website www.powertochoose.org recently recorded its millionth visitor. The Texas electric market was opened to customer choice on January 1, 2002, and over 36,245 consumers have downloaded “Power Guide to Electric Choice” from the website to help guide their choice. The Texas Electric Choice Answer Center has received an average of 21,708 calls per month since the first day of the open market. (Source: *Business Wire*, August 15, 2002)

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PHILADELPHIA REGION

► *Status of Utility-Related Activities*

The New Jersey State Board of Public Utilities recently approved grants for the installation of turbine windmills in Atlantic City. (Source: *Bergen Record*, July 30, 2002)

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SEATTLE REGION

► *General State Activities*

In an effort to rebuke the Standard Market Design order recently released by FERC, California Senator Steve Peace (D) will propose an amendment to the state constitution stating that the Public Utilities Commission may not approve the transfer of any asset of a public utility to any public or private institution. The amendment may not be constitutional, however, because it may conflict with the U.S. Interstate Commerce clause. (Source: *EnergyWashington.com*, August 7, 2002)

The Climate Trust, a Portland area non-profit that works to reduce carbon dioxide emissions, will provide almost \$1 million to the City of Portland to further efforts to improve the energy efficiency of apartments and commercial buildings. The City of Portland will use the funding to help reduce electricity use in more than 12,000 apartment units and 40 commercial buildings. “We are excited to work with the city of Portland both to help a hard-to-reach market save an estimated \$50 million on utility bills and encourage the continued development of commercial green buildings,” said Diana Dobtner, the Climate Trust’s board chair. (Source: *The Business Journal of Portland*, August 1, 2002)

► *Status of Utility-Related Activities*

Residential customers in the City of Los Angeles may now be eligible to receive a share of \$3 million in rebates for the purchase of EnergyStar™ appliances and other energy-saving products purchased on or after May 11, 2002. Applications to receive a rebate, approved by the Board of Water and Power Commission, can be found on the Internet at www.ladwp.com beginning the first week in September. Applications may be submitted through December 31, 2002. Eligible appliances for rebate include EnergyStar™ certified dishwashers, clothes washers, refrigerators, ceiling fans with compact fluorescent lighting, fluorescent torchiere lamps, and compact fluorescent lighting fixtures. (Source: *Businesswire*, August 6, 2002)

Legislation is moving through the California Senate that would greatly reduce financial incentives for solar power use for larger corporate users (10 kilowatts and 1,000 kilowatts). The current “net metering” law allows solar customers to bypass the cost of distribution and transmission, while users of traditional electricity are still required to pay these costs. California utilities are leading the charge to pass the bill. Representatives from the alternative energy industry such as PowerLight Corporation claim that the bill’s passage “won’t kill the industry, but it will limit us tremendously.” Bill Golove of Lawrence Berkeley National Laboratory claims that “since solar generation is still so small compared to the total, the financial impacts on utilities so far is minimal.” (Source: *Wall Street Journal*, August 12, 2002)

A universal tax on power and natural gas bills that rolls into a fund to benefit low-income residents is being reconsidered by the Nevada legislature. The tax levy, which generated \$9.62 million in FY 2002 (including \$1.99 million in Federal funding) assists low-income families in weatherizing their homes and in paying utility bills. Over 6,600 homes have received assistance from the fund. (Source: *Las Vegas Review-Journal*, August 20, 2002)

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UTILITIES AND EQUIPMENT SUPPLIER ACTIVITIES

GENERAL ANNOUNCEMENTS

Despite record electricity demand in many areas of the country, electric reliability this summer has been stable compared with the summer of 2001. A combination of conservation and new power plants going online has resulted in heightened stability. The North American Electric Reliability Council expects that excess reserves of power will range from 15 to 30 percent. California has only experienced two emergency alerts this summer (July 9 and July 10) compared with 65 alerts during the first five months of 2001. California did report problems with wild fires, which caused brief power outages in the southern part of the state. Experts like Larry Makovich of Cambridge Energy Research Associates, warn that stability is tenuous, because “an investment retrenchment is roaring through the power industry... a third of the proposed power plants have been canceled since the beginning of the year, including many in the West.” Pat Wood, Chairman of the Federal Energy Regulatory Commission said: “We’re just in a temporary lull. We don’t have what we need in the way of power plants. Ultimately, we need the investment back.” (Source: *Associated Press*, August 8, 2002)

AstroPower, a developer of solar electric home power systems, announced that their products will now be sold in Home Depot stores in the States of Delaware, New Jersey, and New York. In all, 61 Home Depot stores carry the products nationally, including stores in San Diego and Los Angeles. Home Depot stocks the SunUPS and SunLine Solar Electric Home Power Systems, which allow residents to generate their own solar electric power and route it throughout the home’s electric circuits. Excess power is delivered to the electric grid, which provides a credit on the resident’s utility bill. AstroPower’s most quickly growing market for solar devices is the residential sector. (Source: *PR Newswire*, August 6, 2002)

Virtual Technologies has introduced a controller that allows the blending of alternative power and utility-provided power in a seamless fashion. The GreenMax Power™ system is innovative in that it does not consecutively switch from alternative to utility-fed power, but seamlessly blends “additive power from the utility grid to compensate for shortfalls from the alternative energy source.” Two models will be available in 2003: 120VAC and 220VAC. The controller can be used for large-scale installations or for specific uses like charging batteries or running pumps. (Source: *PR Newswire*, August 5, 2002)

Mechanical Technology has introduced a fuel cell for portable electronics like cell phones, laptop computers, and personal digital assistants that will last longer than the current lithium batteries and will have the capability to be instantaneously recharged. The fuel cell will not be available commercially until 2004. (Source: *Times Union* (Albany, New York), August 8, 2002)

MGx, LLC, is now offering wind power to commercial, industrial and residential customers through sales of Wind Electric, Inc.’s Light Industrial Mill (LIM). The apparatus is intended for rooftop installation, and will utilize air mass turbulence to produce renewable wind energy from winds over 100 miles per hour. The LIM is comprised of ducted fan turbines of varying sizes to accommodate energy needs and availability. (Source: *mgx.com*)

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ATLANTA REGION

► *Public Benefits Programs*

The Florida Public Service Commission ruled recently that renewable power generators producing up to 10,000 W may sell excess power back to the utility. The first participant in the program installed a 2,400 W solar generator and expects to reduce his electric bills from \$70 to \$10 per month, and eventually begin to produce more solar-powered electricity than he will need. The warehouses utilizing the power are on the Gulf Power distribution grid. The owner paid \$20,000 for the system, but with rebates, he will receive a \$9,600 return. (Source: *Knight-Ridder*, August 8, 2002)

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BOSTON REGION

► *Public Benefits Programs*

Cielo Wind Power and TXU Energy have partnered to build and sell the output of a 240 MW wind farm that will power 50,000 homes in West Texas. The Noelke Hill Wind Ranch will be operating by September 2003, and will be one of the largest wind projects in the United States. (Source: *Reuters*, July 24, 2002)

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CHICAGO REGION

► *Public Benefits Programs*

Customers of utility Hoosier Energy may now purchase a green power option in the form of EnviroWatts. EnviroWatts can be purchased at a cost of \$2.00 to \$4.00 per kWh block. The green power is being procured from a landfill gas project in Indiana. (Source: *Greenpower Marketing Monthly Update*, July 2002)

EnviroWatts is also being offered to customers of East Kentucky Power Cooperative. The premium is 2.75 cents per kWh. The green power is being generated from a landfill gas project in Indiana. (Source: *Greenpower Marketing Monthly Update*, July 2002)

Non-residential customers of AES NewEnergy are now able to receive green energy certificates from new and existing landfill methane facilities. The renewable power premium varies with the volume purchased. (Source: *Greenpower Marketing Monthly Update*, July 2002)

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DENVER REGION

No news of interest to FEMP.

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PHILADELPHIA REGION

No news of interest to FEMP.

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SEATTLE REGION

► *Restructuring Activities*

Undergoing extreme financial duress because of \$1 billion in potential revenue shortfalls over the next four years, the Bonneville Power Administration (BPA) is holding a series of public meetings to develop a plan to continue to supply power to customers in Northwestern states. Public comments are requested through September 30, 2002. The debt is attributed to the fact that BPA incorrectly judged future power cost. Stakeholders hold widely varying views of how BPA should recover its debt. Proposals include borrowing money to pay current expenses, raising rates to a flat level, and raising rates to a level that would meet the deficit while still reducing costs. (Source: *Greenwire*, August 21, 2002)

► *Public Benefits Programs*

The Bonneville Power Administration has endorsed the Surveyor Network Energy Manager as a tool that monitors, manages, and reduces the energy consumed by user networks. The Surveyor software will result in an average energy reduction of 200 kWh per year, providing in nearly \$3 million in energy savings for the entire region for its four-year life. Past conservation and renewable resources rate discounts granted by BPA have covered projects such as solar panels, energy efficient heat pumps and motors, but a software product designed to reduce savings has never been endorsed. Surveyor manufacturer EZConserve regarded the “endorsement [as] really the icing on a cake we’ve been building for the last year, moving steadily from an energy-saving ‘concept’ to a customer-proven, industry-validated tool.” Oregon State University, Portland Public Schools, and the City of San Jose will incorporate the Surveyor software as pilot programs. Utilities can access the information online at the “Conservation and Renewables Discount Program Tracking and Reporting System” at www.rtf.nwppc.org. (Source: *E-Wire*, August 6, 2002)

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PRIVATE SECTOR AND NON GOVERNMENTAL ORGANIZATIONS

GENERAL ANNOUNCEMENTS

The U.S. Green Building Council (USGBC) recently launched the pilot phase of LEED for Commercial Interiors (LEED-CI), its newest green building rating system. LEED-CI builds on LEED 2.0, launched in 2000 to certify the overall environmental performance of new commercial buildings, and the LEED for Existing Buildings (LEED EB) Pilot, launched earlier in 2002 to address sustainable operation of existing buildings. LEED-CI evaluates sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality, and focuses on green standards as they relate to tenant spaces located within commercial real estate. The USGBC is seeking to identify 50 projects to test the new rating system in real-world settings. Public launch of LEED-CI is scheduled for late 2003. For more information and a pilot application, visit www.usgbc.org. (Source: *Green Building News*, July 29, 2002)

The U.S. Green Building Council announced the creation of a new annual awards program that will honor leaders who are helping to transform the building market. The new program will feature awards in three major categories: The Green Business Award will honor an individual or company that has demonstrated leadership in advancing the green building market through the establishment of a partnership, technique, product or other form of innovation; The Green Public Service Award will be given to an individual or company for significant contributions in advancing green building through

changes in policies, codes, or requirements; and The USGBC Leadership Award will be awarded to an individual who has “demonstrated a sustained commitment to the organization through active participation in the development and advancement of its mission.” For more information, visit www.usgbc.org. (Source: USGBC Press Release, August 5, 2002)

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ATLANTA REGION

No news of interest to FEMP.

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BOSTON REGION

A developer in New York is planning to build the largest “green” building in the world, which will include a \$500 million renewable energy research and manufacturing park. The proposed entertainment complex planned by Pyramid Company will be located in Syracuse, New York, and the design will expand the current Carousel Center Mall. The developer has sought tax breaks for the project through Congress. (Source: *Greenwire*, July 31, 2002 and *Syracuse Post-Standard*, July 28, 2002)

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CHICAGO REGION

No news of interest to FEMP.

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DENVER REGION

Shell Oil Co. has given Rice University \$500,000 of what will become a \$3.5 million endowment to establish a new study center called the Shell Center for Sustainability. The Center will serve as a hub for thought on “green growth” and will allow researchers to further study sustainable development. (Source: *World Environment News*, July 29, 2002)

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PHILADELPHIA REGION

Drexel University recently announced that it would purchase the entire energy output of a 220-foot tall wind turbine from Community Energy, Inc. “Drexel takes the lead with this purchase of close to ten percent of its total energy use from wind power. These purchases bring energy independence to the mid-Atlantic region by demanding power with no fuel and no pollution,” said Brent Adlerfer, CEO of Community Energy, Inc. Drexel will also receive energy from the new Pocono Wind Farm and joins 25 other Pennsylvania colleges and universities using wind power. (Source: Drexel University Press Release, July 29, 2002)

Ocean County College in Toms River, New Jersey has announced plans to install and operate a 250-kilowatt fuel cell system that will generate a portion of the college’s electricity using natural gas supplied by the New Jersey Natural Gas Company (NJNG). The system is expected to be operational by the spring of 2003. “We are pleased to be a part of the college’s commitment to achieving new standards for environmentally friendly and energy efficient operations,” said Laurence Downes, Chairman and CEO of NJNG. The college expects to save \$60,000 in energy costs per year with the fuel cell system. (Source: GreenBiz.com, August 15, 2002)

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SEATTLE REGION

No news of interest to FEMP.

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ALTERNATIVE FUELS AND VEHICLES

GENERAL ANNOUNCEMENTS

Musical celebrity Bonnie Raitt has launched Green Highway, a traveling display advocating hybrid cars, wind power, and other energy solutions, while on her summer musical tour with Lyle Lovett. Green Highway is an eco-village promoting the message of clean energy and sustainable living. The village, and accompanying web site, feature products compliant with this message. Honda's Insight and Civic electric-hybrid cars are on display, and the Green Highway tour vehicles are fueled by the biodiesel blend B20. (Source: Green Mountain Press Release, August 9, 2002)

Federal District Court Judge William Aslup found that all 15 Federal agencies charged in a suit by Earthjustice have violated the *Energy Policy Act of 1992's* alternative fuel acquisition requirements. The ruling implies that all agencies will need to increase the purchase of vehicles powered by fuel cells, natural gas, biodiesel, and other alternative fuels. The *Energy Policy Act* was designed to decrease transportation fuel demand by 10 percent by 2000 and 30 percent by 2010. (Source: *Environmental News Service*, August 8, 2002)

The Internal Revenue Service has certified hybrid-electric vehicles (HEV) as eligible for a \$2,000 tax deduction. Purchasers of a HEV can use this certification concerning the incremental cost of permitting the use of electricity to propel the vehicle to take advantage of this important Federal tax benefit. Upon introduction in 1999, approximately 40,000 HEVs have been sold in the United States. (Source: *Clean Cites: What's New*, August 2002)

Ford Motor Company and Ballard Power Systems have created the Ballard Ecostar hydrogen generator, a hydrogen-fueled internal combustion engine driven generator capable of producing 114 kilovolt-amperes of power. The Ballard Ecostart is one of the cleanest generators available as it produces no carbon dioxide and minimal nitrogen oxides. This generator will be placed in a Ford 6.8 liter V10 truck engine. (Source: *CALSTART News Notes*, August 14, 2002)

A two-door 1994 Geo Metro outfitted by Green Star™ Biodiesel, formerly BAT International, Inc., TVT lubricants, and a Spiro exhaust system has achieved 99 miles per gallon while traveling at 45 miles per hour. The Geo Metro's engine had a standard diesel engine; the fuel efficiency increase was a result of the three improvements. SuperBAT TVT anti-friction metal treatment lubricants are exhaust lubricants, which increase fuel efficiency by decreasing friction. The Spiro exhaust system is an advanced diesel retrofit with improved circulation. The high efficiency Green Star™ Bio-Fuel, a biodiesel fuel with the additive Viscon, was used to lower emissions. (Source: *E-Wire*, August 21, 2002)

National Aeronautics and Space Administration has developed a high-strength aluminum-silicon alloy that could improve gas mileage in vehicles and lower engine emissions. The alloy would be used in piston redesign, as it is wear-resistant and exhibits strength at high temperatures. The alloy offers a significant cost savings, at less than a dollar per pound, and promises to be an economical way to reach high performance gasoline and diesel engine exhaust standards. (Source: *CALSTART News Notes*, August 6, 2002)

ATLANTA REGION

No news of interest to FEMP.

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BOSTON REGION

No news of interest to FEMP.

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CHICAGO REGION

No news of interest to FEMP.

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DENVER REGION

No news of interest to FEMP.

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PHILADELPHIA REGION

► *New Products and Services*

EV Rental Cars provides a fleet of 20 new alternative fueled vehicles at Budget Rent a Car's Reagan National Airport. The selection includes new Honda Civic hybrid-electrics, Honda Insight, Toyota Prius, and natural gas powered Honda GX. EV Rental Cars began its alternative fueled vehicle rental program in 1998, with 11 electric cars at Los Angeles International Airport. EV Rental Cars' fleet has expanded to over 400 cars of the variety found at Reagan National Airport in 14 airport locations throughout the United States. (Source: *Environmental News Service*, August 8, 2002)

The Task Force for a 21st Century Energy Policy for Pennsylvania has compiled 11 bills designed to ease the state's reliance on foreign oil sources. Specifically, the legislation would encourage the use of alternative fuels and alternative-fuel vehicles through tax credits and grants. Such monetary sources would result in investment in alternative energy sources, pollution-control equipment, and alternative-fuel production facilities in the state. (Source: *Tax Analysts/State Tax Notes*, July 15, 2002)

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SEATTLE REGION

► *AFV Fleet Acquisitions*

The Los Angeles Metropolitan Transportation Authority (MTA) plans to purchase new, articulated Metro Rapid buses. The new buses will be used to test a bus-only lane on the popular Wilshire Corridors. The MTA plans to deploy 100 new two-cabin buses with the increased capacity of 40 to 60 passengers per bus for the bus only lane. (Source: *CALSTART News Notes*, August 19, 2002)

The Los Angeles transit agency, Foothill Transit, purchased a 66-bus fleet fueled by compressed natural gas (CNG) with funding from 80 percent of a grant awarded by the Federal Transit Administration. The CNG buses serve the San Gabriel and Pomona Valleys and the remaining buses in the 300-bus fleet will be upgraded to CNG by 2011. At the same time, Omnitrans in the Inland Valley unveiled a new fueling station for liquefied and compressed natural gas vehicles. (Source: *CALSTART News Notes*, August 12, 2002)

► *Infrastructure Activities*

The South Coast Air Quality Management District has established the California Natural Gas Vehicle Partnership to promote natural gas vehicles (NGV). This 15 full member and 17 associate member public-private partnership will promote research and development, demonstration, deployment and commercialization, increase awareness and use of NGVs, promote availability of financial and non-financial incentives, and establish specific deployment numbers of NGVs throughout California. The Partnership plans to set an example for other major metropolitan areas, and to use the NGV as a starting point for the introduction of fuel cell vehicles. (Source: *CALSTART News Notes*, August 9, 2002)

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MEETINGS, CONFERENCES, AND TRAINING **WORKSHOPS**

- Refer to [Attachment D](#) – New Technologies.
- Refer to [Attachment E](#) – Calendar of Upcoming Events.

ATLANTA REGION

The Association of Energy Engineers presents the World Energy Engineering Congress, a three-day conference and technology exposition, October 9-11, 2002, at the Georgia World Congress Center in Atlanta. For further details and to register, visit www.energycongress.com.

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BOSTON REGION

The Strategic Research Institute will host the 2nd Annual Early Markets for Stationary Fuel Cells conference in Boston, Massachusetts, from September 30 – October 1, 2002. For more information, call 888-666-8514 or email to info@srinstitute.com.

The Federal Energy Management Program will hold the third in a four part series of conference Distributed Energy Resources and Combined Heat and Power for Federal Facilities in conjunction with the Third Annual National CHP Roadmap Workshop and the EPA CHP Partnership Meeting in Boston, Massachusetts from October 23-25, 2002. For more information and to register for the conference visit www.energetics.com/femp-chpworkshop.html.

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CHICAGO REGION

No new events of interest to FEMP.

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DENVER REGION

No new events of interest to FEMP.

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PHILADELPHIA REGION

The Department of Energy and the Virginia Department of Mines, Minerals, and Energy are sponsoring a conference on building energy management, Basic Building Energy Technology, in Blacksburg, Virginia, from September 9-10, 2002. To register for the conference, email afowler@vt.edu.

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SEATTLE REGION

The McAdams Group will conduct the Funding Green Buildings: Sources & Strategies workshop in Berkeley, California, on September 21, 2002. The group will host two additional conferences in Philadelphia, Pennsylvania, on September 27 and 28, 2002. For more information, visit www.fundinggreenbuildings.com.

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STUDIES, REPORTS, AND ANALYSES

ALTERNATIVE FUELS AND VEHICLES

The Energy Balance of Corn Ethanol: An Update, United States Department of Agriculture, August 2002.

The study by the United States Department of Agriculture (USDA) concludes that ethanol production is energy efficient, yielding 34 percent more energy than is used in the growing and harvesting of corn and distilling it into ethanol. Higher corn yields lower energy use per unit of output in the fertilizer industry and advances in the production of fuel from the corn plant have improved drastically in the last twenty years, the study found. Production of ethanol grew to about 1.8 billion gallons in 2001, with encouragement from national energy security concerns, new Federal gasoline standards, and government incentives. This report is available online at www.usda.gov/oce.

NYCT Diesel Hybrid-Electric Buses: Final Results, National Renewable Laboratory (NREL), August 1, 2002.

NREL performed a year long evaluation of 10 prototype Orion VI hybrid-electric 40-foot buses in the New York City Transit fleet with findings that the hybrid-electric technology had a 10 percent higher in-service fuel economy than the conventional transit buses. The buses were equipped with BAE HybriDrive propulsion systems, and produced 36 percent lower nitrogen oxide emissions and 50 percent

lower levels of particulate matter than diesel buses in the same business district cycle. However, hybrid bus maintenance costs were up to 150 percent more expensive than conventional buses. To obtain a copy of this report, visit www.afdc.doe.gov.

***Passenger Ferries, Air Quality, and Greenhouse Gases: Can System Expansion Result in Fewer Emissions in the San Francisco Bay Area?* CALSTART, July 25, 2002.**

The study of the Bay area ferries shows increased and clean technologies and fuels, such as natural gas or clean diesel, are needed to diminish the impact of marine and land terminal air pollution. The Environmental Protection Agency regulations beginning in 2007, require reductions of 85 to 98 percent below Tier 2. Low emission technologies are needed to accommodate for increased ferry use and to reduce emissions to less than on-land transit. This report is available online at www.calstart.org.

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SUSTAINABILITY

Energy Design Guidelines for High Performance Schools, Department of Energy, August 2002.

This series of publications will aid school districts in designing energy efficient schools and cutting the \$6 billion that schools spend on energy costs each year. The books provide information on site design, daylighting, energy-efficient building shells, lighting and electrical systems, renewable energy systems, water conservation, recycling, and resource-efficient building products. The guidelines resulted from meetings convened by DOE's Rebuild America Program in 2000 and 2001. To download the publications, go to www.eren.doe.gov/energysmartschools.

Blueprint For the Clean Sustainable Energy Age, EnergyPromotion.net, September 2002

In addition to providing information on the status of sustainable energy activities and awareness programs on a global scale, the report provides information on United States energy policy in 2001, and highlights various renewable energy options, clean transport solutions, and national and regional energy characteristics and case studies. To order the report, call 303-369-3533.

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ECONOMIC ANALYSES

Developing Value: The Business Case for Sustainability in Emerging Markets, SustainAbility, August 2002.

The report released by SustainAbility, a London-based research and consultancy firm, documents the business benefits of practicing sustainability in emerging markets through a "Sustainable Business Value" matrix. The report looks at 240 companies in 60 countries to illustrate how corporations operating in emerging markets can enhance their values by employing sustainability practices. The report also urges investors and other stakeholders to reward companies practicing sustainability in emerging markets and to pressure those with poor environmental and social practices. The full text is available online at www.sustainability.com/developing-value/contents.asp. (Source: GreenBiz.com, August 9, 2002)

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MISCELLANEOUS

PricewaterhouseCoopers LLC, August 2002

In a recent survey of environmental business practices at 140 large U.S. companies by PricewaterhouseCoopers LLC, 75 percent of the companies that responded indicated they are moving to adopt environmentally cleaner business practices such as pollution prevention and environmental-management systems. The report also found that 72 percent of the companies have not codified their sustainable business practices to ensure they are carried out systematically. Other results from the survey: 25 percent of respondents reported having adopted no sustainable practices, the main reason being the lack of a compelling business case, and 89 percent of respondents said they believe there will be a greater emphasis on sustainability in five years than there is today. (Source: Jim Carlton, *The Wall Street Journal*, August 19, 2002)

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ATTACHMENT A

STATUS OF FY 2003 APPROPRIATIONS BILLS

(In Billions)

HOUSE

SENATE

Jurisdiction/ FY 2003 Budget Request	302(b) Allocations / Approved Funding Level	Bill No.	Full Cmte.	Floor	Conf.	302(b) Allocations /Approved Funding Level	Bill No.	Full Cmte.	Floor	Conf.
Agriculture \$17.051	\$ 17.601	<i>HR</i> 5263	7/11	7/26		\$ 17.980	<i>S</i> 2801	7/25		
Commerce \$ 40.333	\$ 40.726	-	7/18			\$ 43.475	<i>S</i> 2778	7/18		
Defense \$356.598	\$354.7	<i>HR</i> 5010	6/24	6/27		\$ 355.1	-	7/18	8/1	
Energy and Water Development \$251.149	\$ 26.027	-				\$ 26.300	<i>S</i> 2784	7/24		
Interior \$18.953	\$ 19.8	<i>HR</i> 5093	7/9	7/17		\$ 19.35	<i>S</i> 2708	6/27		
Labor / HHS \$129.902	\$129.902	-				\$133.988	<i>S</i> 2766	7/18		
Military Construction \$ 9.541	\$ 10.083	<i>HR</i> 5011	6/24	6/27		\$ 10.622	<i>S</i> 2709	6/27	7/18	
Transportation \$ 19.851	\$ 19.411	-				\$ 21.1	<i>S</i> 2808	7/25		
Treasury \$ 17.960	\$ 18.501	<i>HR</i> 5120	7/9	7/24		\$ 18.501	<i>S</i> 2740	7/16		
VA/HUD \$ 92.518	\$ 91.841	-				\$ 91.434	<i>S</i> 2797	7/25		
Total 302(b) Allocations/ FY 2003 Budget Request \$748.141										

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ATTACHMENT B

NEW LEGISLATION OF INTEREST TO FEMP

HOUSE

Number	Short title	Date	Sponsor	Status																						
H.R. 5245	<i>Western Electricity Markets Reform Act of 2002</i>	July 26	Darrell Issa (R/CA)	Referred to the Committee on Energy and Commerce																						
	<p>Requires that the Federal Energy Regulatory Commission study the feasibility and desirability of the formation of Regional Transmission Organizations (RTO) within the Western Electric Coordinating Council. The report shall assess options for creating an RTO to cover the entire area within the jurisdiction of the Western Electric Coordinating Council or two Regional Transmission Organizations with the following geographic boundaries:</p> <p>1) The northern region of California, the states covered by the <i>Pacific Northwest Power Planning Act</i>, the northern portion of Nevada, and such other areas that are contained within the same natural electricity trading market, and with headquarters located in Portland, Oregon; and</p> <p>2) The southern portion of California, the southern portion of Nevada, the States of Arizona, New Mexico, Colorado and such other areas that are contained within the same natural electricity trading market, and with headquarters located in Phoenix, Arizona.</p> <p>(3) The establishment of three Regional Transmission Organizations, reflecting the proposals on file with the Commission as of June 1, 2002.</p> <p>Upon adoption of one of the proposals, the commission shall issue a Notice of Proposed Rulemaking containing a proposal to establish a Regional Transmission Organization or Regional Transmission Organizations.</p>																									
H.R. 5259	<i>Budget Fraud Elimination Act of 2002</i>	July 26	Paul Ryan (R/WI)	Referred to the Committees on the Budget, Ways and Means, Rules, and Government Reform																						
	<p>Reforms Federal budget procedures to restrain Congressional spending, foster greater oversight of the budget, and account for accurate government agency costs. Revises the Congressional budget process with a new timetable:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">First Session</th> </tr> <tr> <th style="text-align: center;">On or before:</th> <th style="text-align: center;">Action to be completed:</th> </tr> </thead> <tbody> <tr> <td>First Monday in February</td> <td>President submits budget recommendations.</td> </tr> <tr> <td>February 15</td> <td>Congressional Budget Office submits report to Budget Committees.</td> </tr> <tr> <td>Not later than 6 weeks after budget submission</td> <td>Committees submit views and estimates to Budget Committees.</td> </tr> <tr> <td>April 1</td> <td>Budget Committees report concurrent resolution on the biennial budget.</td> </tr> <tr> <td>May 15</td> <td>Congress completes action on concurrent resolution on the biennial budget</td> </tr> <tr> <td>May 15</td> <td>Biennial appropriation bills may be considered in the House.</td> </tr> <tr> <td>June 10</td> <td>House Appropriations Committee reports last biennial appropriation bill.</td> </tr> <tr> <td>June 30</td> <td>House completes action on biennial appropriation bills.</td> </tr> <tr> <td>October 1</td> <td>Biennium begins.</td> </tr> </tbody> </table>				First Session		On or before:	Action to be completed:	First Monday in February	President submits budget recommendations.	February 15	Congressional Budget Office submits report to Budget Committees.	Not later than 6 weeks after budget submission	Committees submit views and estimates to Budget Committees.	April 1	Budget Committees report concurrent resolution on the biennial budget.	May 15	Congress completes action on concurrent resolution on the biennial budget	May 15	Biennial appropriation bills may be considered in the House.	June 10	House Appropriations Committee reports last biennial appropriation bill.	June 30	House completes action on biennial appropriation bills.	October 1	Biennium begins.
First Session																										
On or before:	Action to be completed:																									
First Monday in February	President submits budget recommendations.																									
February 15	Congressional Budget Office submits report to Budget Committees.																									
Not later than 6 weeks after budget submission	Committees submit views and estimates to Budget Committees.																									
April 1	Budget Committees report concurrent resolution on the biennial budget.																									
May 15	Congress completes action on concurrent resolution on the biennial budget																									
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June 10	House Appropriations Committee reports last biennial appropriation bill.																									
June 30	House completes action on biennial appropriation bills.																									
October 1	Biennium begins.																									

Number	Short title	Date	Sponsor	Status
	Second Session			
	On or before:		Action to be completed:	
	February 15		President submits budget review.	
	Not later than 6 weeks after President submits budget review		Congressional Budget Office submits report to Budget Committees.	
	The last day of the session		Congress completes action on bills and resolutions authorizing new budget authority for the succeeding biennium.	

SENATE

Number	Short title	Date	Sponsor	Status
S. 2791	<i>No Short Title</i>	July 25	Pete Domenici (R/NM)	Referred to the Committees on the Budget and Governmental Affairs
	Provides budget discipline and enforcement for fiscal year 2003 and beyond.			
	Requests that that Senate shall not consider any reported bill, joint resolution, amendment or conference report that would provide an advance appropriation. Advance appropriation means any discretionary new budget authority in a bill or joint resolution making general appropriations or continuing appropriations for fiscal year 2003 that first becomes available for any fiscal year after 2003.			

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ATTACHMENT C

HEARINGS SCHEDULE

HOUSE - APPROPRIATIONS

There are no hearings of interest to FEMP.

HOUSE - AUTHORIZATIONS/OVERSIGHT

There are no hearings of interest to FEMP.

SENATE - APPROPRIATIONS

There are no hearings of interest to FEMP.

SENATE - AUTHORIZATIONS/OVERSIGHT

There are no hearings of interest to FEMP.

CONFERENCE COMMITTEE NEGOTIATIONS/FLOOR VOTES

Date/Committee	Bill	Time/Location
Thursday, September 5 <i>(NEW)</i>	Conference Negotiations - H.R. 4546, Department of Defense, for military construction, and for defense activities of the Department of Energy	3 p.m. Room HC-8 Capitol
Wednesday, September 11 <i>(NEW)</i>	Conference Negotiations - H.R. 4546, Department of Defense, for military construction, and for defense activities of the Department of Energy	1:30 p.m. Room S-211 Capitol
Wednesday, September 11 <i>(NEW)</i>	Conference Negotiations - H.R. 4546, Department of Defense, for military construction, and for defense activities of the Department of Energy	4 p.m. Room 345 Cannon Office Building
Thursday, September 12 <i>(NEW)</i>	Conference Negotiations - H.R. 4546, Department of Defense, for military construction, and for defense activities of the Department of Energy	3 p.m. Room HC-8 Capitol
Friday, September 13 <i>(NEW)</i>	Conference Negotiations - H.R. 4546, Department of Defense, for military construction, and for defense activities of the Department of Energy	9:30 a.m. Room S-207 Capitol

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ATTACHMENT D - NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

Technology	Manufacturer	Manufacturers Claim	Contact
Power Sources			
EGC1500-20 Genset	MQ Power	EPA certified	www.multiquip.com
Wave Rider III Emergency Central Lighting Inverter	Crucial Power Products	CSA Listed to UL924, UL924A, & UL1778; power factor and energy efficient ballast; 90% efficiency	www.crucialpower.com
HVAC			
CO2 Sensor Option for AAF®-HermanNelson® Unit Ventilators	McQuay International	Optimizes operating efficiency by delivering accurate, occupancy-based ventilation	www.mcquay.com
Boiler Energy Saver	Watts Regulator Co.	Reduces energy costs and heat loss by lowering boiler water temperature during periods of warm weather	www.wattsreg.com
Sandblaster® SBX™ Commercial Gas Water Heater	State Industries	Turbo-Force Ring™ prolongs tank life and maintains thermal efficiency	www.stateind.com
Radiaclim	MC International	Provides both heating and air conditioning for buildings using existing hot water central heating system	www.mc-international.fr/html/version_uk/index_uk.html
Nozzle Series HVAC Duct Alternative	FabricAir	Energy saving; achieves more concentrated air throws	www.fabricair.com
52P Premier Series Packaged Terminal Air Conditioners	Carrier Corp.	Higher Energy Efficiency Rating – up to 12.7	www.carrier.com
The Tempstar SmartComfort™ 2400 Series Split System Air Conditioners	International Comfort Products	Can achieve 15 SEER when matched with appropriate coils and blowers	www.tempstar.com
Low-profile Evaporator	Heatcraft Refrigeration Products	Features enhanced tubing and fin design for higher efficiency	www.heatcraftRPD.com

Technology	Manufacturer	Manufacturers Claim	Contact
GPD 506/P5 AC Drive for Fans and Pumps	Yaskawa	98% efficiency	www.yaskawa.com
Lighting			
Lited Pathway™ System	E-Lite	Automatically activates at dusk, turns off at dawn via photocell sensor	www.e-lite.com
Elevator LED Lamp	LEDtronics	High efficiency operation delivers power savings of 80%-90% or more; lasts 30-50 times longer than incandescent lamps	www.ledtronics.com
Model 5737TZ Photocontrol and Microprocessor	Tork	Energy efficient savings; tracks dusk and dawn times year round, accounts for daylight savings time, automatically resets its timer after power outages	www.tork.com
12Volt MR-16 LED Bulb	Boca Flasher	Energy efficient; 100,000 hour life	www.bocaflasher.com/bulbs.htm#MR-16%20LED%20Bulb
Cool-Brite™ 24 W Fluorescent Portable Worklight	The Designers Edge	Bulb life up to 5 times longer than a halogen bulb; UL and CUL Listed	www.designersedge.com
Cool-Brite™ 44 W Fluorescent Portable Worklight	The Designers Edge	Output equal to 150 W incandescent bulb; lasts up to 5 times longer than a halogen bulb; UL and CUL Listed	www.designersedge.com
Cool-Brite™ 88 W Fluorescent Twin Head Telescoping Worklight	The Designers Edge	Output equal to 300 W incandescent bulb; lasts up to 5 times longer than a halogen bulb; UL and CUL Listed	www.designersedge.com
13 W Fluorescent Tube Trouble Light	The Designers Edge	13 W long life energy saving bulb is equivalent in brightness to a 60 W incandescent bulb; UL and CUL Listed	www.designersedge.com
Auto-Reset Thermal Protection Standard on Linear Reactor Ballasts	Advance Transformer Company	UL and CSA listed; meets pulse-start ANSI specifications; provides energy cost savings	www.advancetransformer.com
T2 Fluorescent Integral Ballast	Alkco	Provides energy savings in compact light source	www.alkco.com
70w Icetron® System	Osram Sylvania	Average rated lamp life of 100,000 hours, 4 to 10 times the life of conventional metal halide and fluorescent lamps	www.sylvania.com

Technology	Manufacturer	Manufacturers Claim	Contact
RAVE Fluorescent Lighting System	Corelite of Cooper Lighting	Energy efficient	www.cooperlighting.com
LX-12 Warning Light	Lumastrobe	Uses LED lamps which are energy efficient and last for 100,000 hours	www.lumastrobe.com
XERADEX® Xenon Excimer Lamp System	Osram Sylvania	Extremely efficient, converting 40% of input power into high-energy vacuum ultra-violet radiation – up to 4 times more than equipment currently in use	www.sylvania.com
MIRO Aluminum	Alanod	Total reflection of 95% increases louver efficiency by 10%-15%; reduces lighting costs	www.alanod.com
Self-Ballasted Electronic Performance Biax® Lamps	GE Lighting	Up to 75% energy cost savings; 6,000-12,000 hour life is 6-13 times longer than incandescent	www.gelighting.com
GlareBuster GB-1000	GlareBuster	Uses energy efficient compact fluorescent 15-26W or incandescent/halogen up to 100W; uses less wattage than conventional floodlights	www.theglarebuster.com
ENERGY MANAGEMENT TOOLS			
Panelmount Environmental Monitoring Unit	APC	Offers remote monitoring and e-mail notification to protect buildings from power transients	www.apcc.com
75000 and 74000 Series Surge Protective Devices	Leviton	Records and downloads surge events	www.leviton.com
6200 ION Power Meter	Power Measurement	Suitable for sub-metering, energy cost tracking, and load profiling	www.pwrm.com
BEST Energy-saving Software	Baldor	Calculates annual electricity cost of motors, based on nominal efficiency, compared to annual electricity usage of Baldor's premium efficiency motors	www.baldor.com
Smart Bypass	Safronics	Improves system efficiency by up to 5%	www.safronics.com
HLP-10 HyperLogger Power Plus Systems	Logic Beach	Measures power consumption and equipment output	www.logicbeach.com
Infinet II HVAC Controllers	Andover	Allows user to trend over one month's worth of point data locally in a single controller	www.andovercontrols.com
Pro Series Pulse Data Logger, Model PS100	Dickson Company	Records the rate of water flow and total gallons over time	www.dicksonweb.com

Technology	Manufacturer	Manufacturers Claim	Contact
Machine Monitor System	RST Instruments	Monitors up to eight water pumps simultaneously	www.rstinstruments.com
Power Management Module System	MGE	Integrates isolation, conditioning, electronic grade grounding, and power management and distribution for up to 252 output breakers	www.mgeups.com/products/pdt120/pdu/pmm/pmm.htm
Engine Management System	Waukesha	Optimizes performance by monitoring speed, pressure, temperature, and other conditions; controlling ignition timing, speed governing, and stop/start functions	www.waukeshaengine.com
Technologic 5500 Controllers	Bell & Gossett	Multiple-pump and multiple-zone controller provides optimum performance, reliability, and energy savings	www.bellgossett.com
Digital Load Monitor	Emerson Motors	Measures load on electrical motors and warning of overload and underload conditions	www.emersonmotors.com
Raptor Programmable Controller	Staefa	Controls large mechanical equipment and coordinates control strategies among numerous pieces of mechanical equipment	www.sbt.siemens.com/hvp/staefa
Powerlogic 480V Energy Meter	Square D	Suited for monitoring 240 to 480-V applications in commercial and industrial sub-metering projects	www.squared.com
9600 Power Quality Meter	Siemens	Provides compliance reporting, 256 samples per cycle waveform recording, system reliability, sag/swell analysis, 4 or 8 MB data logging, and harmonics	www.sea.siemens.com/news/news_article.asp?article_no=440
AquaMaster S Electronic Water Meter	ABB	Added accuracy represents a revenue improvement compared to new mechanical meters	www.abb.com
Adviser Reliability Workstation™ Version 6.1.7	Cooper Power	Provides load flow, short circuit analysis, reliability analysis, integrated overcurrent protective device coordination, and harmonic analysis	www.cooperpower.com/Products/new_products.asp
AVO PA-9Plus Power Analyzer	AVO International	Trends Harmonics, THD and TDD, Provides real-time graphical display of individual harmonic power	www.avointl.com/us/products
Infinet II HVAC Standalone Controllers	Andover Controls Corporation	Users can log and trend over 30 days of critical point data locally in a single controller.	www.andovercontrols.com
Mediator for Enterprise Metering Applications	Envenergy, Inc.	Provides data logging and export from multiple power and energy meters to multiple SCADA and EEM platforms	www.envenergy.com

Technology	Manufacturer	Manufacturers Claim	Contact
Comfort-Set® 90 Series Universal Staging Thermostat	White-Rodgers Division, Emerson Electric Co.	Designed for single-stage, multi-stage, and heat pump operation	www.white-rodgers.com
CertiSpec3 Computerized Sizing Guide	Rheem Water Heaters	Draws comparisons of annual fuel consumption for gas versus electric units, as well as 80%-efficient models versus the 95%-efficient AdvantagePlus	www.rheem.com
LOGit Series Dataloggers	Supco	Stores more than 10,000 measurement points	www.supco.com
Digital MicroWATT System	Lutron Electronics	Automated on/off light switching, full-range dimming capability, real-time monitoring of a building's entire lighting system, and load shedding for peak demand reduction	www.lutron.com/lutron
Energy-10 Version 1.5 Software	National Renewable Energy Laboratory	Allows users to estimate energy life-cycle costs of a new building; features seven upgrades including a discounted cash-flow evaluation of a building over its lifetime and a more powerful graphing package	www.nrel.gov
COMPUTERS			
PowerMate Eco	NEC	Energy-efficient 900 MHz Crusoe processor consumes one-third the electricity and produces one-third the heat of conventional desktop PC processors	www.neccomp.com/v2

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ATTACHMENT E

MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in blue.
DOE-sponsored events are highlighted in red.

ATLANTA REGION

DATE	EVENT	SPONSOR
October 9-11, 2002	World Energy Engineering Congress Atlanta, GA	Association of Energy Engineers

BOSTON REGION

DATE	EVENT	SPONSOR
September 30 – October 1, 2002	Stationary Fuel Cells Boston, MA	Strategic Research Institute
October 23 – 25, 2002	Distributed Energy Resources for Federal Facilities Boston, MA	Federal Energy Management Program

CHICAGO REGION

DATE	EVENT	SPONSOR
September 19-20, 2002	Energizing America's Cities: Developing Sustainable Energy Solutions Chicago, IL	Gas Technology Institute
Fall 2002	International Conference on the Future of Energy Transportation Technologies Detroit, MI	Department of Energy

DENVER REGION

DATE	EVENT	SPONSOR
November 13-15, 2002	Green Building International Conference and Exposition Austin, TX	U.S. Green Building Council

PHILADELPHIA REGION

Date	Event	Sponsor
September 9-10, 2002	Basic Building Energy Technology Blacksburg, VA	Department of Energy and Virginia Department of Mines, Minerals, and Energy
September 19-20, 2002	Real-Time Energy System Integration Baltimore, MD	Association of Energy Engineers
September 27- 28, 2002	Funding Green Buildings Philadelphia, PA	The McAdams Group
September 27- October 5, 2002	Solar Decathlon Village Washington, DC	Department of Energy
October 3-4, 2002	Smart Design Forum 3 Washington, DC	Sustainable Washington Alliance

SEATTLE REGION

DATE	EVENT	SPONSOR
September 21, 2002	Funding Green Buildings Workshop Berkeley, CA	The McAdams Group
October 7, 2002	Funding Green Buildings Workshop Las Vegas, NV	The McAdams Group
November 7-8, 2002	Renewable Energy Oakland, CA	Center for Business Intelligence

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