



Energy Watch

June 2009

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At the moment of death we will not be judged according to the number of good deeds we have done or by the diplomas we have received in our lifetime. We will be judged according to the love we have put into our work. Mother Teresa

*To thine own self be true,
and it must follow,
as the night the day,
thou canst not then be false to any man. William Shakespeare*

Something to Think About.....

Partisan, What's All the Fuss? - Partisan: one who takes the side of or strongly supports a side, a party, or another person.....some dictionaries add: blindly or unreasonably devoted. But let's not go there. Now, you all know me and my most serious partisan issue is what sports team you root for.

When it comes to politics, partisanship is a serious business. Choosing sides is the way it works. Think about it. Most politicians are lawyers and I love the profession, but partisanship is in their DNA. A trial lawyer is either on the defense or is the prosecutor; a divorce lawyer is either for the husband or for the wife; a civil case lawyer, a corporate lawyer, a civil rights lawyer, etc. etc. etc. are partisan. They have to be. They are trained to seek evidence that supports their case and disproves their opponents. Finding the truth is the process of the two sides strongly pleading their side of the case and it's the judge and the jury that decides. Most of the time, it works. When it doesn't, we try try again.

Lawyers learn that in order to survive they have to have thick skins. To do their job, they have to convince maybe 12 jurors. Not an easy task but the whole world can disagree but if the 12 jurors are on their side, they win. Then when they decide to go into politics, they need a bigger majority on their side...51% of the voters. Not everybody.....not 51% of the population.....only 51% of the voters and only 50% of the population even vote. As far as the Presidency is concerned, you can get more votes than you opponent and still lose. That's the life of the partisan. You can piss off 49.9% of the people and still win.

On the other hand, marketing and sales professionals have to be bi-partisan. If we please only 50% of our customers, we lose half our business.



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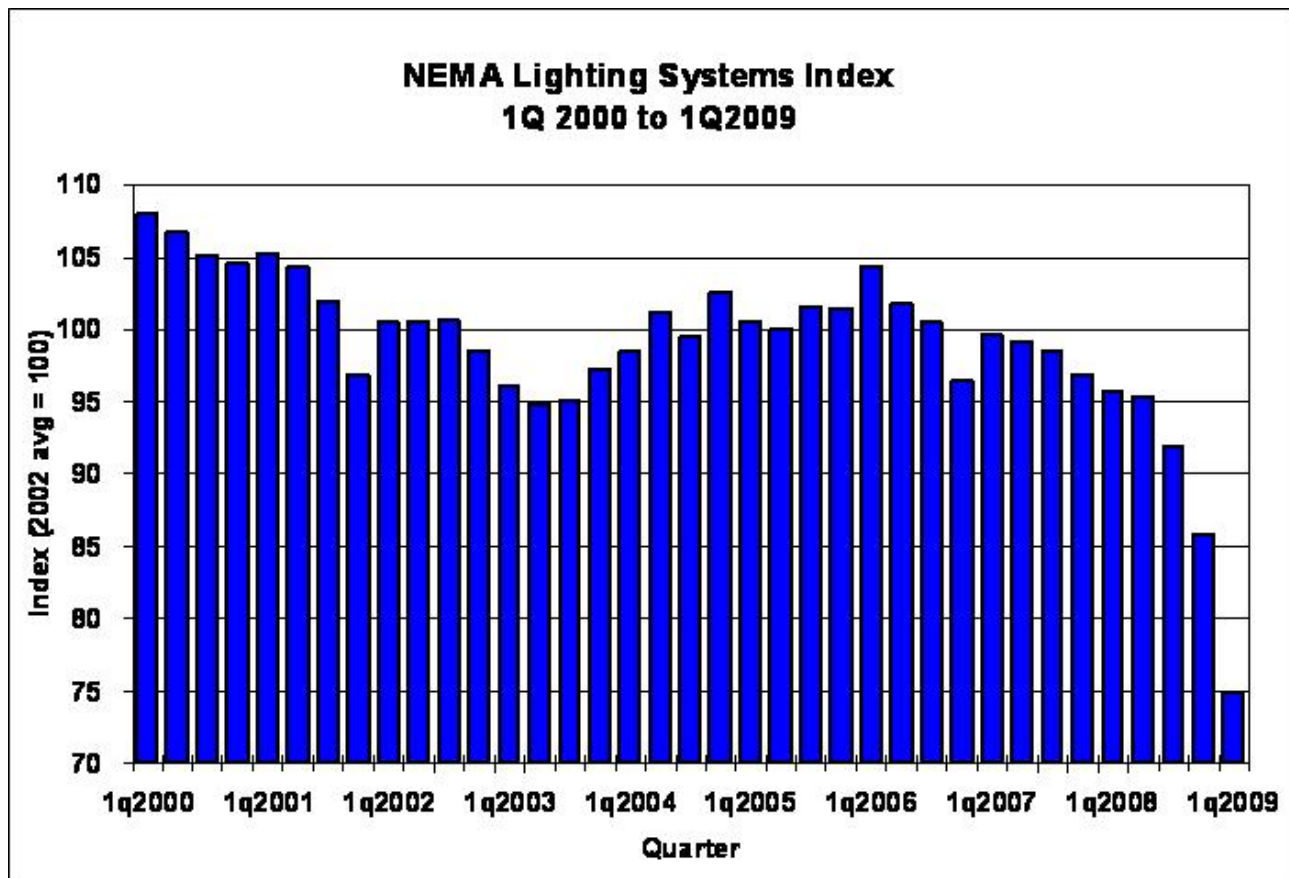
Our business is changing your future...

NATIONAL ENERGY ISSUES TO WATCH.....

- 1. *'Smart Grid' - Power Lines Move into Digital Age*** - The "smart grid" has become the buzz of the electric power industry, at the White House and among members of Congress. President Barack Obama says it's essential to boost development wind and solar power, get people to use less energy and tackle climate change. What smart grid visionaries see coming are home thermostats and individual appliances that adjust automatically based on the cost of power, and water heaters that can draw power from a neighbor's rooftop solar panel. They see a time when, on a scorching hot day, a plug-in hybrid electric car charges one minute and a few moments later sends electricity back into the grid to help avert a brownout. Also coming are utilities that get instant feedback on a transformer outage or shift easily among energy sources from wind turbines to coal-burning power plants and back to the turbines when the wind begins to blow again. And, from miles away, power companies will peer into homes and businesses, then automatically lower thermostats or adjust power use, depending on demand and prearranged agreements. Overall transmission modernization, including new higher capacity lines along with the communications technology, could cost as much as \$1 trillion, according to some estimates. <http://tinyurl.com/o5qeep> 06/07 AP
- 2. *NAHB: Energy-Efficient Tax Credits a Boon for Homeowners*** - The so-called Existing Home Retrofit Tax Credit (25C) has been in place since February 2009, but anecdotal evidence suggests that many U.S. homeowners are either unaware of its benefits or are slow to take advantage. (Unlike a rebate, the tax credit is not a payment but a credit against an individual's tax liability. The process of claiming it is part of a personal income tax filing.) The National Association of Home Builders (NAHB) <http://www.nahb.org/> briefing on May 12 discussed the tax credit program and identified ways in which consumers can take advantage of an opportunity to save money and improve their primary residence. The expanded federal tax credit refunds 30% of the product replacement cost, up to a total of \$1,500. It can be used for HVAC systems, insulation and water heaters, windows, doors and insulation as long as the new products meet IRS qualifications. 05/26 HCN
- 3. *SU And IBM Collaborate on Green Data Center*** - Officials from Syracuse University, IBM and New York State have broken ground on what they say is one of the most energy-efficient computer data centers in the world. With the use of green technologies, the new facility is expected to use about half the energy of a typical data center. The project, expected to be completed in 2009 on the SU campus, will focus on the actual construction of the data center itself, not just the computer hardware and software. A key element of the \$12.4 million, 6,000-square-foot facility will be an onsite electrical co-generation system. It will use natural gas-fueled micro-turbine engines to generate all electricity and provide cooling for the computer servers. 05/29 AP
- 4. *Philips Introduces Industry-Changing Lighting Transformations, Solutions*** - Royal Philips Electronics extended further its leadership position in the lighting industry by outlining its holistic, energy-efficient and high-quality approach to lighting in response to dramatic shifts and market transformation that the industry is facing, largely fueled by the advent of solid state lighting (SSL). According to Philips, lighting expertise based on end-user insight is integrated into the application, system or solution. Increasingly, these applications and solutions will include controls, and so a key differentiator in the future will be the innovative strength to create systems and solutions that are truly customer-centric. <http://www.newscenter.philips.com>



5. **Regular Light Bulbs Turned Into Power-Sippers: Ultra-Fast Laser Increases Efficiency of 60-Watt Bulb To 100-Watt** - An ultra-powerful laser can turn regular incandescent light bulbs into power-sippers, say optics researchers at the University of Rochester. A new laser technology process could make a light as bright as a 100-watt bulb consume less electricity than a 60-watt bulb while remaining far cheaper and radiating a more pleasant light than a fluorescent bulb can. The laser process creates a unique array of nano- and micro-scale structures on the surface of a regular tungsten filament and these structures make the tungsten become far more effective at radiating light. The findings will be published in an upcoming issue of the journal Physical Review Letters. www.rochester.edu
6. **First-Quarter 2009 Lighting Systems Index Free-Falls to New Low** - The National Lighting Bureau (NLB) reports that first-quarter 2009 NEMA Lighting Systems Index data reveal a near-13% decline from fourth-quarter 2008 activity, when the Index hit its then-new-all-time low. On a year-over-year basis, the Index plummeted by 22%. No covered equipment category was spared; all declined significantly, with ballasts and fixtures showing the most weakness compared to the first quarter of 2008. www.nlb.org



7. **Efficiency on Tap** - First there was Energy Star; now WaterSense www.epa.gov/watersense is making a push into the broad category of sustainable products and lifestyles. WaterSense, sponsored by EPA, is a voluntary product-labeling program that sets standards for water-efficient products like plumbing fixtures and appliances and allows manufacturers to certify their products under the WaterSense label. 05/26 HCN



8. **U.S. DOE's Quality Advocates Protects the Market** - The Department of Energy has created an SSL Quality Advocates Program which, according to its [2009 Solid-State Lighting R&D Multi-Year Program Plan](#) aims to “prevent a recurrence of compact fluorescent lamp (CFL) market introduction mistakes.” Three years ago, early in the SSL commercialization effort, DOE published a report entitled “[Compact Fluorescent Lighting in America: Lessons Learned on the Way to Market](#)” that described, among other things, a dynamic of overly aggressive marketing early in the life-cycle of the technology when CFLs were not yet fully “up to snuff” in terms of quality and performance. A quick visit to any major lighting trade show such as Lightfair would quickly confirm that there is a real risk of the same dynamic with SSL. [Quality Advocates](#), and its [Lighting Facts](#) label, represents a strong antidote to repeating the mistakes of the past. Quality Advocates is a “voluntary pledge program to assure that LED lighting, as it reaches the market, is represented accurately” (see [Quality Advocates](#) home page). Not only manufacturers, but all market actors related to solid-state lighting – distribution, retail, product specifiers (i.e., designers) and energy efficiency programs – are encouraged to participate. <http://www.neep.org/newsroom/newsletters.html>
9. **CALiPER Results to Date** - The CALiPER (Commercially Available LED Product Evaluation and Reporting) Program has completed two more testing rounds of commercially available solid-state lighting (SSL) products. These most recent rounds, Rounds 6 and 7, collected SSL products through ordinary means such as online stores, lighting catalogues, and retail stores and performed rigorous photometric tests on each product to determine their performance. <http://www1.eere.energy.gov/buildings/ssl/>
10. **Lighting Control for Existing Buildings** - As building owners shift their resources from new construction to upgrading existing buildings, lighting will be a target for energy-efficiency improvements because they're profitable: The average lighting upgrade generates a payback of 2.2 years and a 45-percent return on investment, according to the Energy Cost Savings Council. According to the New Buildings Institute, advanced lighting controls can reduce lighting energy consumption by 50 percent in existing buildings, and by at least 35 percent in new construction. In an existing building, the most profitable control opportunities come from upgrading existing controls and ballasts with minimal rewiring. 06/'09 Buildings
11. **Going Green in a Down Economy** - Given today's economy, it seems only natural that companies would want to focus *more* on the bottom line and *less* on perceived “extras,” such as green building. With businesses doing all they can to survive, going green can seem unaffordable. But, planning and implementing green building initiatives – especially those that save energy and water – can pay off, even in *this* economy. And, just as people are advised to think about investing over the long term in the stock market rather than panicking at every uptick and downtick, investing in green building is part of a long-term strategy. Yes, investments in green building pay off today; more importantly, they pay off *more* tomorrow. 06/'09 Buildings
12. **The 2008 GE Edison Awards** - The big award, the GE Edison Award went to Jim Benya, Michael Neils, Juan Jose Villatoro and James Christianson. I had a chance to talk to Jim in the Press Room and he was absolutely delighted. He has won many awards over the years and is one of the good guys in this industry and said, “this is the one award I always wanted.” Congratulations, well deserved Jim...



STATE ENERGY ISSUES TO WATCH.....

- 13. *City Invests Stimulus Money Into Energy-Saving Initiatives*** - Buffalo spends about \$11 million each year to heat and light 145 properties. When you include the Buffalo city schools, the annual price tag tops \$30 million. That's why city officials have decided to invest \$525,000 in federal stimulus money to make energy-saving improvements in various buildings. Windows and lights will be upgraded, heating and ventilation systems will be modernized and new energy management systems will be installed. 06/05 The Buffalo News
- 14. *Stimulus Money Earmarked for Energy-Efficient Buildings*** - Government buildings across Rhode Island should become more energy efficient and cost less to operate, if \$14.5 million in federal stimulus money earmarked for such efforts does its work. The money is part of \$58 million for energy initiatives that the federal government has pledged to Rhode Island. Some \$20 million is going to weatherization programs and \$24 million to new programs still being considered by state officials. The so-called Energy Efficiency and Conservation Block Grant Program, according to a Department of Energy Web site, "represents a presidential priority to invest in the cheapest, cleanest and most reliable energy technologies we have -- energy efficiency and conservation -- which can be deployed immediately." The money will be distributed through spending formulas and competitive grants. 06/12 The Providence Journal
- 15. *DOE to Spend \$1.1 Billion on Illinois Coal Project*** - The Obama administration on Friday all but guaranteed almost \$1.1 billion in funding for a "clean coal" power plant in Illinois, handing a victory to a group of coal companies and utilities that had been pushing the U.S. to restore funding. 06/12 Dow Jones & Company, Inc.
- 16. *NC Coaches How to Claim Stimulus Energy Spending*** - North Carolina officials are coaching local counterparts on how to tap some of the millions available to save energy and create jobs under the federal stimulus package. The State Energy Office conducts a free workshop in the Pitt County town of Winterville to help local governments and public school officials figure out how to secure money for projects. The workshops continue in Guilford County, Clyde, Hickory, Spring Lake and Wilmington. The stimulus package is sending North Carolina's local and state agencies \$58 million for energy efficiency, \$76 million to promote renewable energy and create green jobs, and \$132 million to for energy-efficient home upgrades. 06/10 AP
- 17. *State Plans \$75 Million for NC Green Energy*** - North Carolina wants to develop green energy projects using \$75 million of the state's share of federal stimulus funds. The state has developed six areas of focus, including energy savings in small business and industry, improving energy efficiency in government and residential use and fostering renewable energy. The largest portion of the plan is an \$18 million revolving loan fund to support efficiency and renewable energy in business, local government, schools and universities. 05/27 AP
- 18. *Many Will Qualify for Weatherization Stimulus Money*** - Working people often didn't qualify, and even those who did had to wait in line -- but that's changed under the announcement that \$3 million in federal economic stimulus money is now available for weatherizing homes in Southwest Virginia. With triple the funding available, the income guidelines for the program have been expanded. Now, an individual earning \$30,581 a year or a family of four earning \$58,810 a year can qualify. There is over \$5 billion available for weatherization programs nationwide. 05/22 Bristol Herald Courier



- 19. TVA Offers New Energy Efficiency Programs** - New energy efficiency programs are headed this month to homes and businesses in areas served by TVA as the agency partners with power distributors from five states. One program is the In-Home Energy Evaluation Program, which offers a comprehensive assessment of a home's energy efficiency plus financing options and incentives to help homeowners make improvements to increase that efficiency. The other is the Efficiency Advice and Incentives Program which will help businesses assess their energy efficiency and also provide financial incentives for qualifying projects to help reduce power consumption during TVA's peak power demand period. www.tva.gov 05/28 The Knoxville News-Sentinel
- 20. TN Receives \$99 Million to Lower Home Utilities** - A Tennessee program that works to help homeowners lower their utility bills is expected to receive a tenfold increase over its current budget. The Tennessean reports the federal government will inject \$99 million into the state's Weatherization Assistance Program this summer. The program pays contractors for improvement projects such as laying insulation and caulking windows to make homes more energy efficient and reduce homeowners' utility bills. 05/21 AP
- 21. State Plans to Spend Stimulus on Energy** - Gov. Steve Beshear of Kentucky announced a plan Thursday to spend \$52 million in federal stimulus funds on energy projects over the next three years. 05/26 The Lexington Herald-Leader
- 22. ComEd Helps Ford Motor Company Lower Operating Costs** - Through ComEd's Smart Ideas incentive program, <http://www.comed.com/smartideas/> Ford Motor Company recently upgraded its lighting equipment in its Chicago production plant, which is expected to yield annual energy savings allowing the cost of the project to be paid back in less than three years. In the last year, \$7 million in incentives translated into companies completing \$37.3 million worth of energy efficiency projects that will save an average of 3.5 percent of their electricity bill, and this year's expanded program will allow more companies to participate. Applications for year two funding will be accepted starting June 1. Funds will be distributed based on availability. More than 1,000 lighting fixtures in Ford's Chicago Stamping Plant were retrofitted and replaced with a premium efficiency fluorescent lighting system. 05/29 PRNewswire
- 23. ClimateSmart Wants to Bring Energy-Efficiency to Your Door** - The Boulder City Council will be asked to OK a new strategy for its ClimateSmart program <http://www.beclimatesmart.com/> -- one that wraps together a scattering of existing programs into a one-stop-shop, meet-people-where-they-live attack on energy-wasting homes and businesses. The "two techs and a truck" idea, as it's been nicknamed for now, would send out a trained staff of clipboard-toting technicians who would go door-to-door offering quick consultations. The meetings could lead to checking insulation in the attic, using a "kill-a-watt" meter to show residents how much electricity their appliances are using, replacing light bulbs and installing programmable thermostats. 05/31 Daily Camera
- 24. NM to Get \$37 Million for Clean Energy Projects** - State officials say about \$37 million in federal stimulus money will be available for demonstration energy projects statewide. The money will be available via application with the State Energy Program and the Energy Efficiency and Conservation Block Grant Program. The application process is aimed at soliciting demonstration projects that increase energy efficiency, generate renewable energy, reduce reliance on imported energy and reduce the impact of energy production and use on the environment. 05/21 AP



- 25. DOE Office's Budget Doubles with Stimulus Funds** - With the Obama administration announcing stimulus funds for energy-efficient public housing Tuesday, the federal office that oversees renewable energy and energy efficiency is hard at work deciding how to spend \$500 million in stimulus money. The infusion roughly doubles the annual budget of the Department of Energy's field office in suburban Denver to an estimated \$1.2 billion. The Golden, CO field office oversees the nearby National Renewable Energy Laboratory and renewable energy and energy efficiency projects nationally. The National Energy Technology Laboratory doles out federal funds for state energy programs and weatherization. Once those funds are awarded, the Golden office monitors those projects generally west of the Mississippi River. 05/26 AP
- 26. Local Low-Income Energy Program Goes Unused** - The city of Farmington, NM spent \$45,000 to give low-income households free energy-efficient light bulbs, but few people have enrolled in the program. On Monday, only 19 households out of 415 were participating in a program in which 10 compact fluorescent light bulbs are given away to low-income people, according to Farmington Electric Utility System officials. City councilors unanimously approved the program in January. The Electric Utility bought 4,270 light bulbs with varying wattage. The city paid about \$1.60 per 13-watt light bulb and about \$2.30 for 23-watt bulbs. 05/19 The Daily Times
- 27. Energy Audits Now Part of Home Sales** - Under a new ordinance, all homes more than 10 years old being sold in Austin, Texas, must have energy audits, officials say. The law, adopted by the city council last year as part of a program to make Austin more energy efficient, takes effect Monday, the Austin American-Statesman reported. 05/26 UPI
- 28. Houston Inks \$9.6 M Deal to Improve Energy Efficiency in Partnership with Clinton Climate Initiative** - Houston is taking the lead among major cities in reducing the energy consumption of city buildings and lowering greenhouse gas emissions as the first C40 city in the U.S. to announce a comprehensive building retrofit project under the Clinton Climate Initiative's Building Retrofit Program. Houston has awarded TAC by Schneider Electric, the building management and energy services business of Schneider Electric, a \$9.6 million performance contract involving seven of the city's 271 buildings. In total, the city of Houston has selected 271 buildings, containing 11 million square feet, in a variety of ages, sizes and configurations – from high-rise offices to single story structures – that are candidates for performance contracting. www.clintonfoundation.org
- 29. AZ. Seeks Stimulus Funding for Energy Projects** - Arizona is applying for \$55 million of federal stimulus money for energy projects. The largest single portion of the application seeks \$20 million for energy efficiency and renewable energy projects for public schools. Gov. Jan Brewer says that funding is appropriate because many schools lack efficient systems for lighting and heating and cooling. Other portions of the application seek funding for energy improvements to state building and for studies to develop new generation systems on public lands. 05/18 AP
- 30. WA County Plans for Stimulus Money** - A truckload of money from February's federal stimulus package, marked for saving energy, could arrive soon in Clark County. The county government is hoping to use \$2.3 million of it to jump-start a new, voluntary green building standard, install low-energy streetlights, and push forward plans to burn garbage and plant scraps for electricity. 05/28 The Columbian



31. PSE Distributes 10 Million CFL Bulbs to Electric Customers - Puget Sound Energy announced today that the utility has now distributed more than 10 million free and discounted compact fluorescent light (CFL) bulbs to its more than 1 million electric customers in Western Washington since the residential lighting program launched in 2002. PSE residential electric customers have taken advantage of discounted CFL bulbs through local retailers, events and promotions, and there is now an average of 10 energy-saving bulbs in use for every customer in the utility's 9-county electric service area. www.PSE.com 06/08 Business Wire

32. SMUD Rolls Out a Smart Electrical Grid - This week, the Sacramento Municipal Utility District is set to take its first step toward what promises to be the most significant development in electricity in a century: the "smart" grid. Thursday, the SMUD board is scheduled to approve a 30-month rollout of 620,000 meters for the Internet age. Instead of today's "dumb" odometer-style counters, the devices will be brainy hubs in a new electrical nervous system that promises to save money and power and foster the next tech boom. To start with, the smart meter can report how much power your home is using -- first day-by-day, but eventually second-by-second -- and how much it's costing you. The more information customers have, SMUD hopes, the more they'll take steps to cut their energy use. Next-generation thermostats, appliances and even light fixtures will be able to send and receive signals from the utility via the meter. Ultimately -- with customers' consent -- SMUD may be able to order hundreds of thousands of air conditioners and other appliances to adjust their power demand to relieve strain on the grid. 06/14 The Sacramento Bee

33. Voices for SSL Efficiency 2009: DOE Solid-State Lighting Market Introduction Workshop - July 13-15, 2009, Chicago, Illinois As more and more solid-state lighting (SSL) products emerge on the market, the need for reliable information and guidance is becoming acute. Many people look to the U.S. Department of Energy (DOE) for timely, trusted information on this fast-moving technology. DOE workshops gather our nation's best and brightest to share the latest updates and strategies for successful market introduction of high-quality, energy-efficient SSL solutions. Register: <http://www1.eere.energy.gov/buildings/ssl/chicago09.html>



34. Lighting up lives in South Asia - Eleven officials from the government, university and corporate sectors of Sri Lanka and Bangladesh came to Rensselaer Polytechnic Institute's Lighting Research Center RPI at the beginning of the month for 12 days of intense training in lighting that will benefit eight countries in South Asia. 82 percent of Sri Lanka is tied to the electric grid but that only a couple of miles outside the major city centers there is no power supply. Those who do have access to the electric grid generally have only about five lights in their homes and the power often goes out at night when electric demand is the highest. That's why Sri Lanka and other South Asia countries are looking for more efficient lighting that can better use the electricity they have. Those countries also want distributive forms of energy, such as micro hydro plants and solar cells systems, so rural areas can use lights instead of potentially dangerous lamps. The goal is to reduce the amount of energy these countries use for lighting while improving the light sources. That would include using light-emitting diodes; compact fluorescent and other energy-efficient light bulbs, and educating people on which are best to use in different parts of the house. 06/12 Times Union



MONTHLY FEATURE... http://tonto.eia.doe.gov/energy_in_brief/natural_gas_pipeline.cfm

How does natural gas travel from producing fields to consumers?

The national natural gas transportation network delivered more than 21 trillion cubic feet of natural gas during 2007 to about 70 million customers. The network, excluding gathering system operators, is made up of more than 200 mainline transmission pipeline companies, more than 1,300 local distribution companies, and about 125 underground natural gas storage operators.

What Makes Up This Transportation Network?

An intricate transportation system, made up of about 1.5 million miles of pipelines, links production areas and natural gas markets. Transporting natural gas from the production field to the consumer involves a series of steps, generally carried out in order:

Gathering systems, primarily made up of small-diameter, low-pressure pipelines, move raw natural gas from the wellhead to a natural gas processing plant or to an interconnection with a larger mainline pipeline.

Processing plants separate natural gas liquids and impurities from the natural gas stream before the natural gas is delivered into a mainline transmission system.

About 302,000 miles of wide-diameter, high-pressure interstate and intrastate **transmission pipelines** transport natural gas from the producing area to market areas. Compressor stations (or pumping stations), located strategically along the length of the pipeline network, keep the natural gas flowing forward along the pipeline system.

Underground storage facilities, fashioned from depleted oil, natural gas, or aquifer reservoirs or salt caverns, are used to store natural gas as a seasonal backup supply. When needed, this reserve is withdrawn to meet additional customer demand during peak usage periods. Aboveground liquefied natural gas storage facilities are also used for this purpose.

Local distribution companies deliver natural gas to end users through hundreds of thousands of miles of small-diameter service lines. Local distribution companies reduce the pressure of the natural gas received from the high-pressure mainline transmission system to a level that is acceptable for use in residences and commercial establishments.

How Did this Transmission and Distribution Network Become So Large?

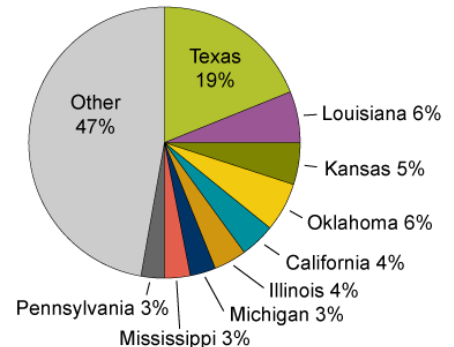
About 142,000 of the current 302,000 miles of the mainline natural gas transmission network was installed in the 1950s and 1960s as consumer demand for low-priced natural gas more than doubled following World War II. In fact, about half of the natural gas pipeline mileage currently installed in Texas and Louisiana, two of the largest natural gas production areas in the country, was constructed between 1950 and 1969. By the close of 1969, marketed natural gas production exceeded 20 trillion cubic feet for the first time.

The demand for natural gas has grown in recent years in part because it is considered a relatively environmentally-friendly energy source. Its use as an electric power generation fuel also has grown steadily with a decline in the capital costs of producing electric power from natural gas as technology in the area has improved.

Natural gas prices, along with oil prices, have increased substantially over the past 5 years. Higher prices gave natural gas producers the incentive to expand development of new natural gas fields. Consequently, new pipelines have been and are being built to link these new production sources to the existing mainline transmission network. Construction of new transmission and local distribution mainline pipeline mileage during the current decade, 2000-2009, is projected to surpass that of any other decade since the 1950s.

Nearly one-fifth of all natural gas transmission pipelines, by mileage, are located in Texas. More than half of all transmission pipelines are located in Texas and eight other States.

Percent of U.S. Natural Gas Transmission Pipeline Mileage in Each State (2007)



Source: Energy Information Administration, Natural Gas Transportation Information System, Natural Gas Pipeline Maps Database (June 2008).

