



Energy Northwest

Annual Conference: October 23 – 24
Richland, WA

By:

Randy Smith

Dennis Bolz

Columbia Generating Station

Nuclear Power Plant

Visitation



The Energy of Conservation-Your Power to Save

Randy Udall Independent Energy Analyst

- **Energy Invented Prosperity**
Increased ability to produce has led to lower prices
 - **Edison Electric Rates...**
 - 1892 - \$3.20 kwh
 - 1992 - \$0.08 kwh
 - **1975** 80% USA had never flown
 - **Today** 8 million flights...600 million passengers
 - **Next 50 Years Biggest Concerns**
 - National Security
 - Economic Crisis
 - Trade Deficits
 - Falling Financial Markets
 - Climate Change
 - Prosperity
- All...Energy Dependent**
- **Conservation:**
Most Cost Effective Investment

Creative Ways to Convince Customers to Use Less of Your Product

Kathy Viehe...Gainesville Regional Utilities

- Total/Resources Cost ‘test” (What does it cost to produce?)
- Give staff room to make mistakes
- Target income groups or it doesn’t work
- Work with contractors (they work one on one in the homes)
- Double the Vendors Rebate
- Measurement and Verification of Savings
- Recognize Results (Publications, Publicity and Celebrations)

- Get the message right...Survey public...

ie: Which is more important to you, addressing global warming or reducing our reliance on foreign sources of energy?

- Results were...20% Global Warming 72% Reducing dependents on foreign sources... Start your campaign here!
- Make Savings Visible...demonstrate how the goal is being accomplished
- Develop a theme.... '2008...Rethink Energy'
- Let Public know.... 'the power is in your hands'

“Give staff room to make mistakes.”



Get Smart: Energy Efficiency and the Smart Grid

Steve Collier — Milsoft Utility Solutions

- Not a Smart Grid...but make a “Smarter Grid”
- 130 Year old business ...first sold in SF
- Historic Problem Resolution...Capacity and Redundancy
- Has become expensive to build new facilities and transmission...materials, permitting, etc.
- Example...in Iowa...finally got permits...not enough cement, steel and other necessary metals

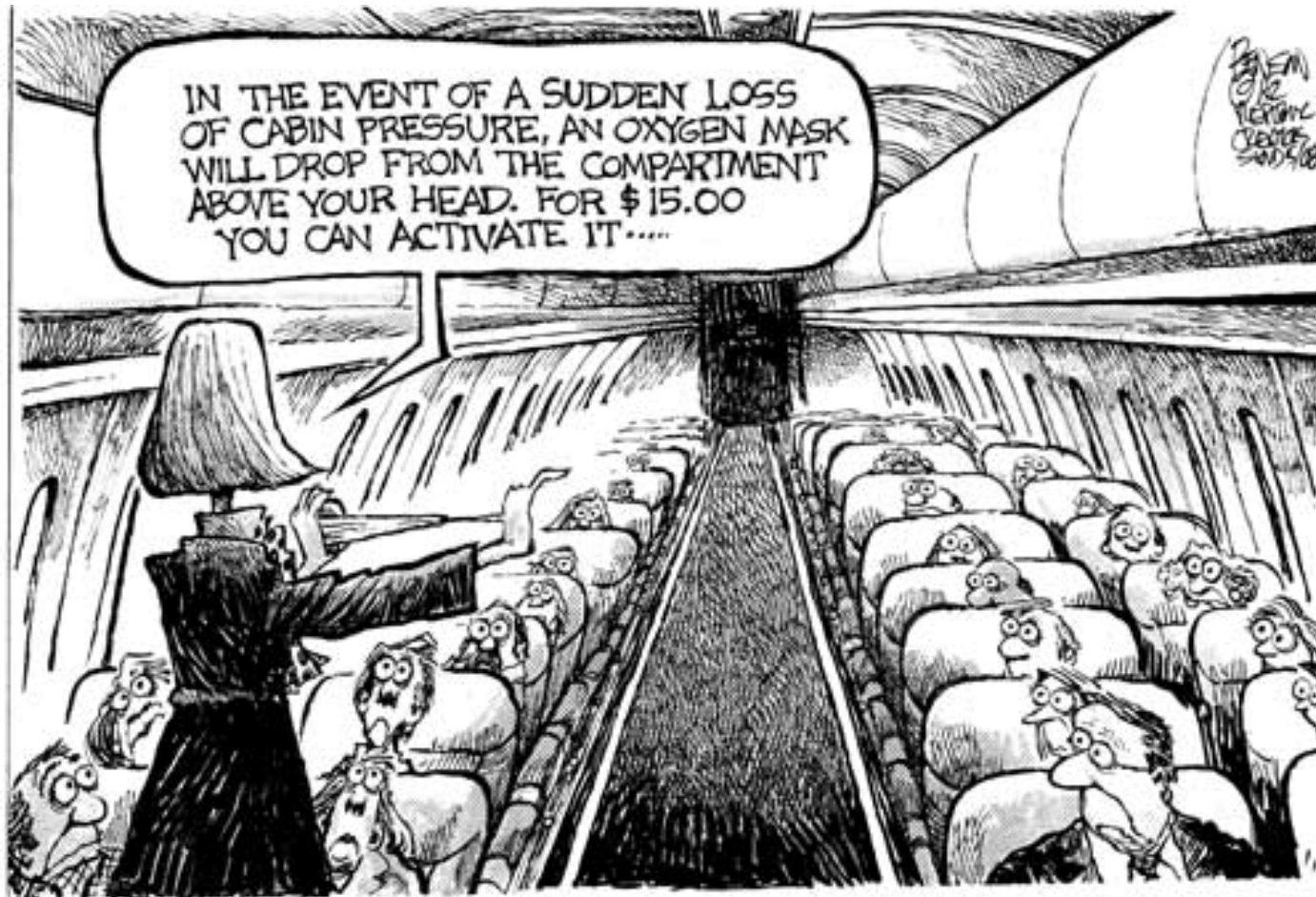
- USA = 's 5% Population 25% of Power Production...this ratio will not be able to continue
- Emerging economies of China, India, Brazil and Russia demanding same resources
- George Schultz, Sec. of State... 95% of the world is made up of foreigners...
- British Thermal Units to Gross Domestic Product...USA still #1 ... Japan #2

- For China to reach the same population to energy use as the USA... they would have to construct 25,000 Coal Plants (2,500 mega watts each)
- Current Chinese Construction... 2 such plants per week!
- **Best Investment....Conservation... do with less!**
- Average world income per person - \$1,000 in the USA poverty line is \$14,000
- If we don't get smarter... 'we will crash the plane...'

“You can’t apologize to the passengers after you have crashed the plane.”

- Intelligent Electronics for gathering the needed information...(two way communication)
- Don’t do just “AMR”... 70% of America has Broadband Available... get equipment and software to manage the communications
- Empower the customer to make a difference
- Like cell phones, blackberries...etc. Customers may be willing to pay for additional services to manage their power use
- **This is a hard corner to turn.**

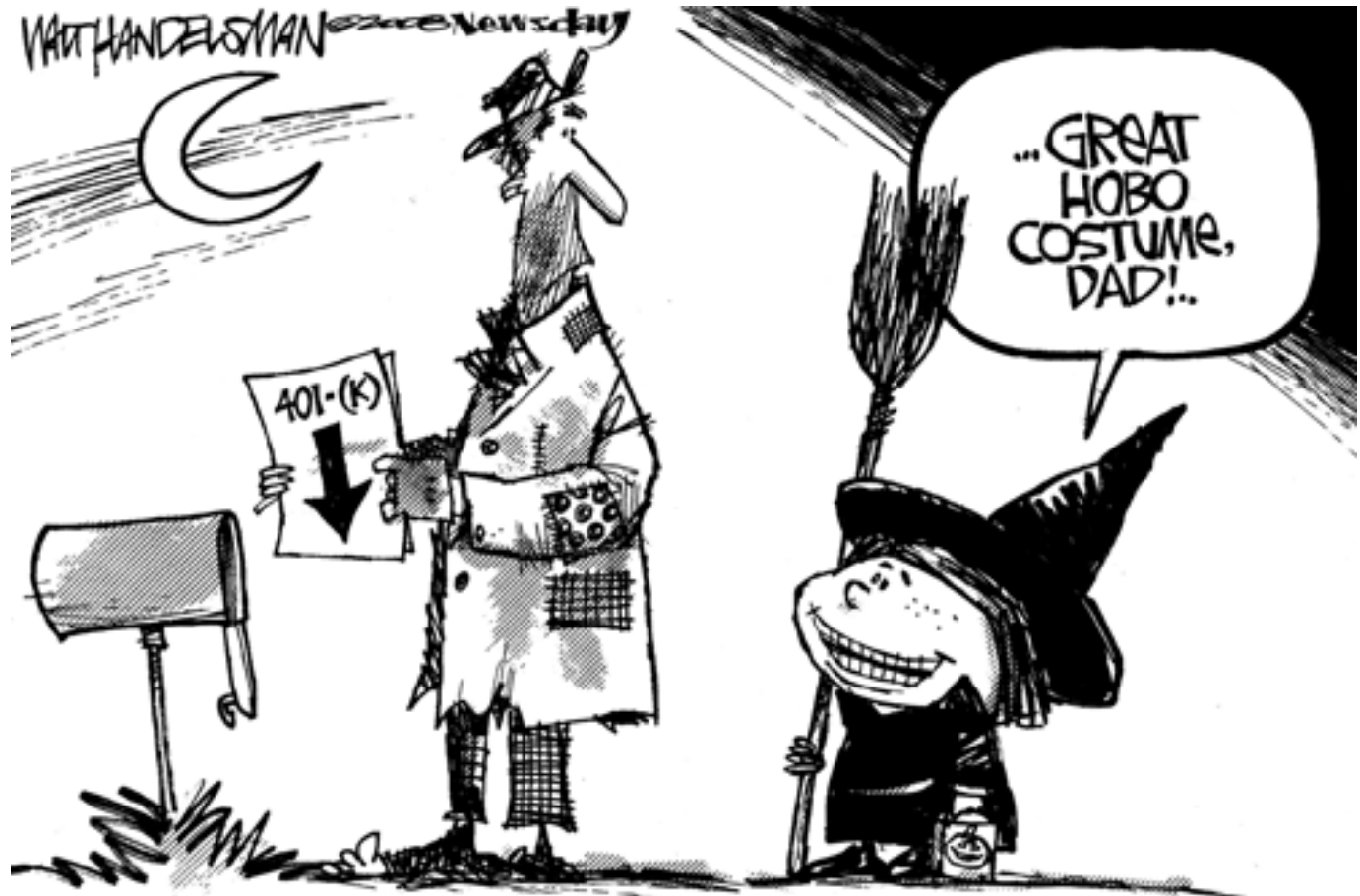
Sign of the times!!!!



Energy Management and Conservation

Cara Shaffer...City Utilities Springfield, MO

- Must be cost effective for utility and customer
- 14 Rebate and Incentive programs...such as: programmable thermostats, insulation rebates, commercial lighting, building operator certification, toilet rebates... etc.
- Paybacks... 10 years or less
- Green Building Program
- Low Income and Weatherization
- Consideration of a new program to review customer bills and credit conservation (very specific)



Thanks! The End!