



Career Options In Energy Efficiency Consulting



presented by

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ENERGY & RESOURCE SOLUTIONS, Inc. (ERS)

IAC Student Meeting

February 2010

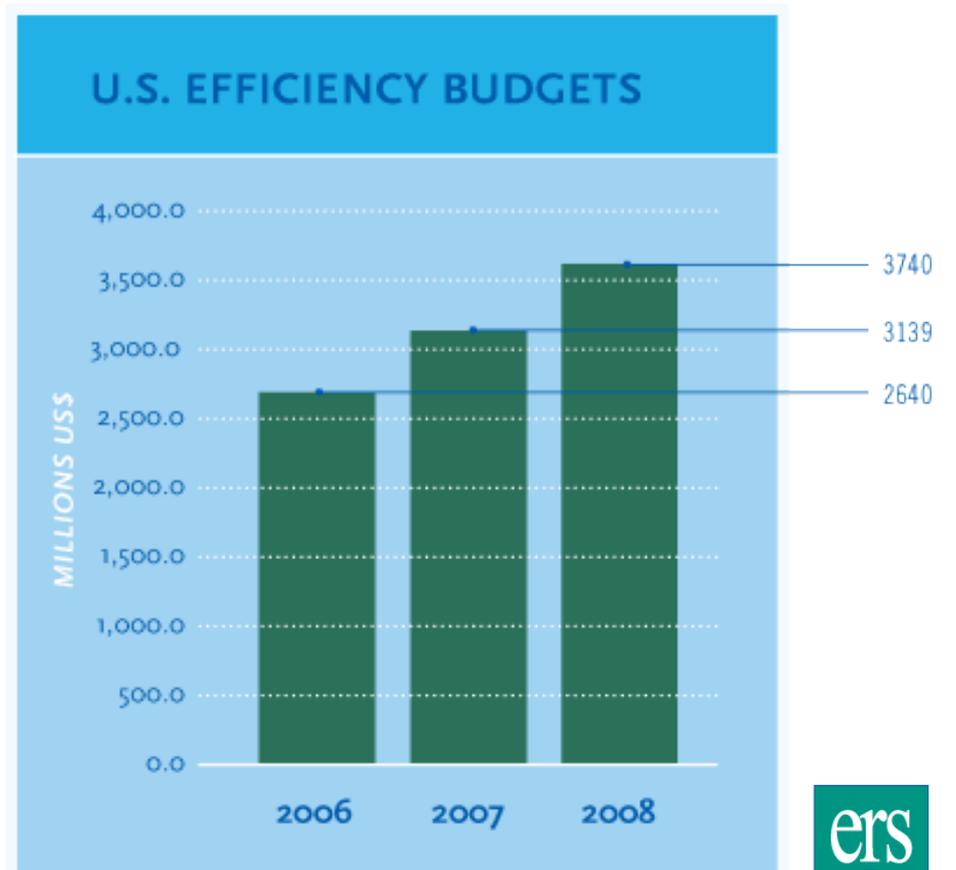
Overview of Energy Efficiency Consulting

- Types of Services
 - Engineering & Technical Assistance
 - Program Planning & Implementation
 - Energy Program Evaluation
 - Sustainable Building Development
- Sources of Funding
 - Federal, State Sponsored Programs
 - Utility Sponsored Program
 - Private Clients



U.S. Energy Efficiency Program Projections

- Rate payer program budgets in US and Canada for 2009 topped \$6 billion dollars.
- This was a 35% increase over the 2008 budgets
- \$700 Billion by 2030 - ACEEE



Nevius M, Krouk J, Griffith S, Lasky C, "Reaching Higher: Annual Industry Report 2008," Consortium for Energy Efficiency, 2008.

Future Energy Efficiency Program Activity

Big Goals – driven by the
Renewable and Energy
Efficiency Portfolio Standards

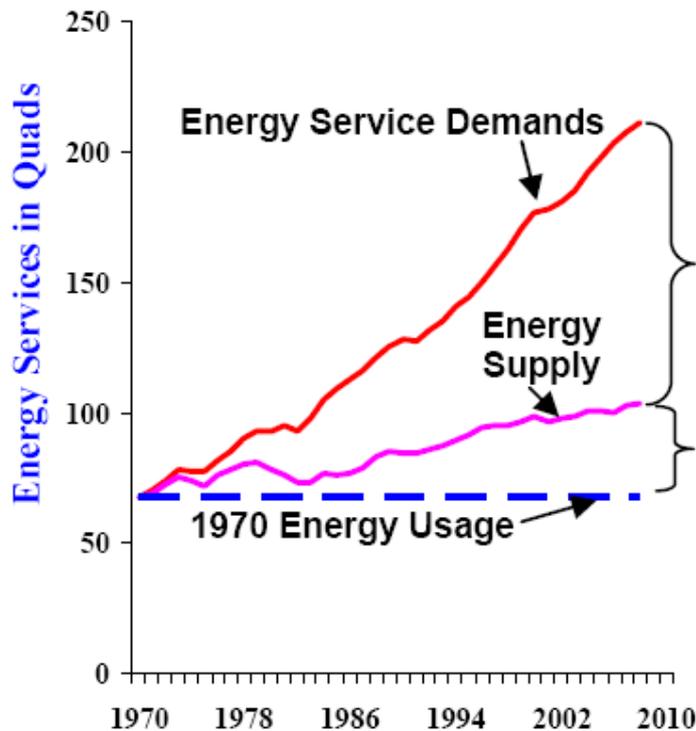
Big Budgets

LOTS of WORK



- Massachusetts > \$1.1 Billion from 2010 - 2012
- California > \$3 Billion from 2010 - 2012
- Vermont > \$100 Million from 2009-2011
- New Hampshire > \$20 Million for 2010
- New York > \$1.1 Billion through 2011
- Minnesota & Wisconsin > \$300+ Million in 2008
- Florida > \$300 Million in 2008
- Texas > \$97 Million in 2008

What Is the Impact of EE Investment?

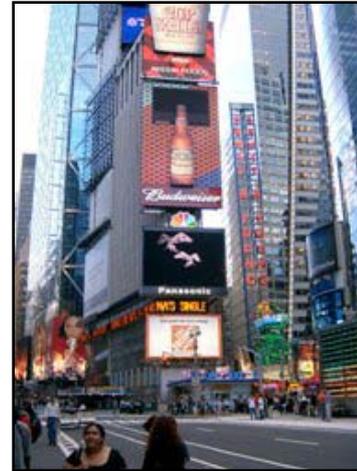


Since 1970, **energy efficiency** (and **energy productivity**) gains have met 75% of new energy service demands in the U.S. through 2008, while **new energy supplies** will have contributed only 25% of all new energy service demands.

Source: Laitner (2008)

About ERS

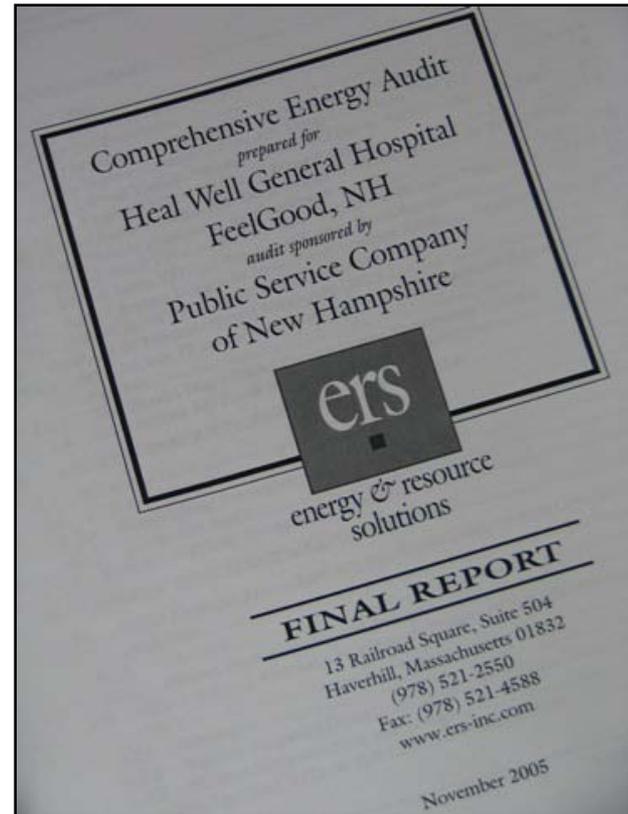
- Established in 1995
- Office Locations
 - North Andover, MA (Boston Area) – Corp Headquarters
 - NY, New York (Times Square)
 - Augusta, Maine
 - Santa Clara, CA
 - Portland, OR
 - College Station, TX
- 43 Employees
- 7 IAC Alums
- Continued Growth
- Unique Work Culture



energy & resource
solutions

ERS Consulting Services

- Technical Assistance Engineering
- Feasibility Studies
- Program Planning
- Program Evaluation
- Project Design & Implementation
- Training



Technical Assistance Engineering

- Comprehensive Commercial & Industrial Technical Assessments
 - Process & Resource Related
 - Existing Buildings
 - New Construction
- ECO-Efficiency (integrates energy, resource, productivity)
- Energy & Productivity
- DOE – Energy Savings Assessments (ESAs)
- Demand Response Assessments
- Commissioning and Retrocommissioning
- Quality Assurance Services



Feasibility Studies

- Renewable
- Green Building Studies
- Co-Generation Studies (CHP)



Program Planning

- Program Planning
 - Efficiency Maine Program Development & Implementation
 - High Performance Schools Program
 - High Performance Lighting Program
 - Technology Assessment



Program Evaluation

- Program Evaluation
 - Post Installation Analysis
 - Commercial & Industrial Utility Programs
 - Residential Utility Programs
 - Evaluation, Metering & Monitoring



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solutions

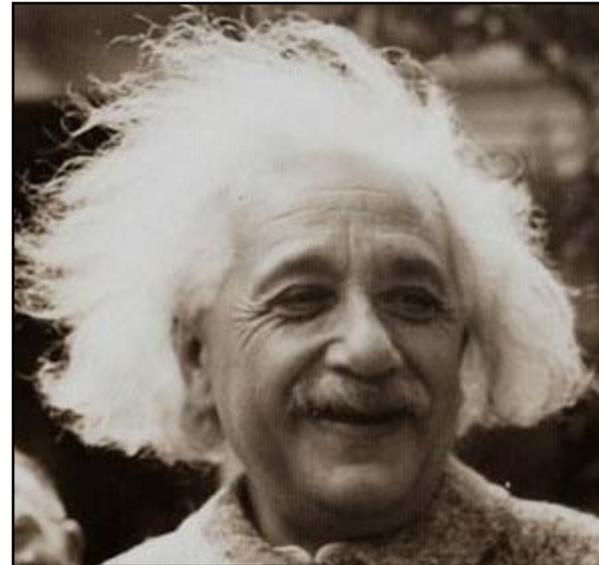
Project Design & Implementation

- High Performance Lighting
- HVAC
- Construction Oversight
- Commissioning, Re-Commissioning, Retro Commissioning



Training

- Energy Codes
- High Performance Technologies –
Circuit Rider
- Design Assistance
- Paper Presentations



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Questions?

