## Tracking Changes in Energy End Use: EIA's Consumption Surveys

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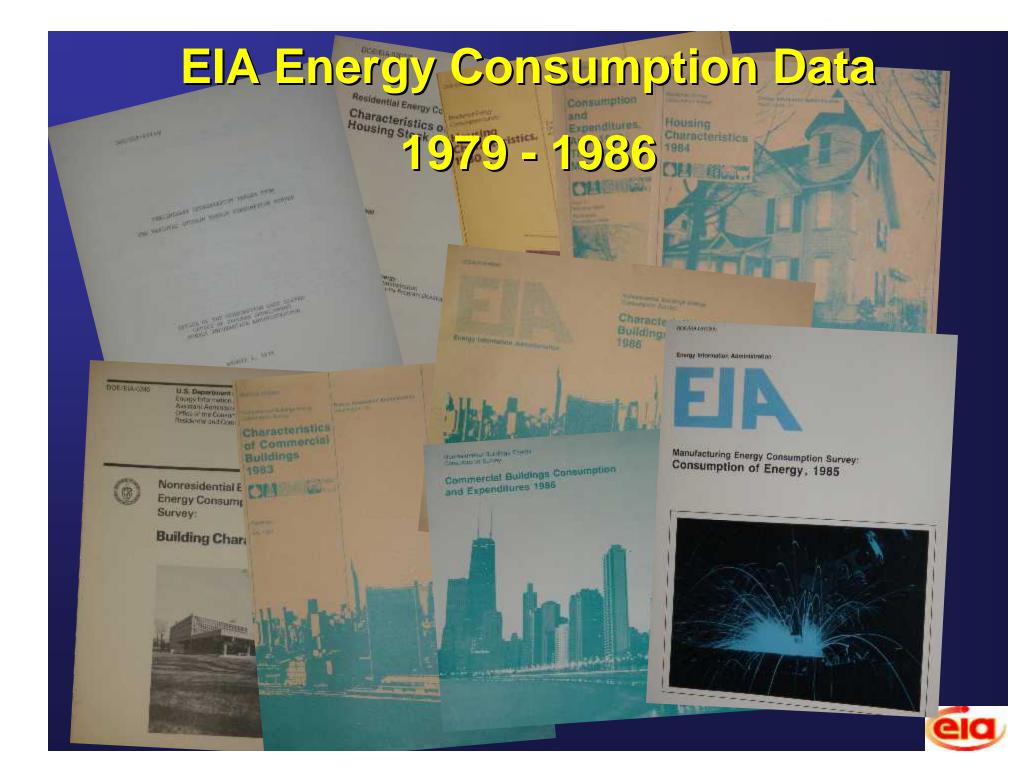
# Energy Consumption Surveys are as Old as the Energy Information Administration

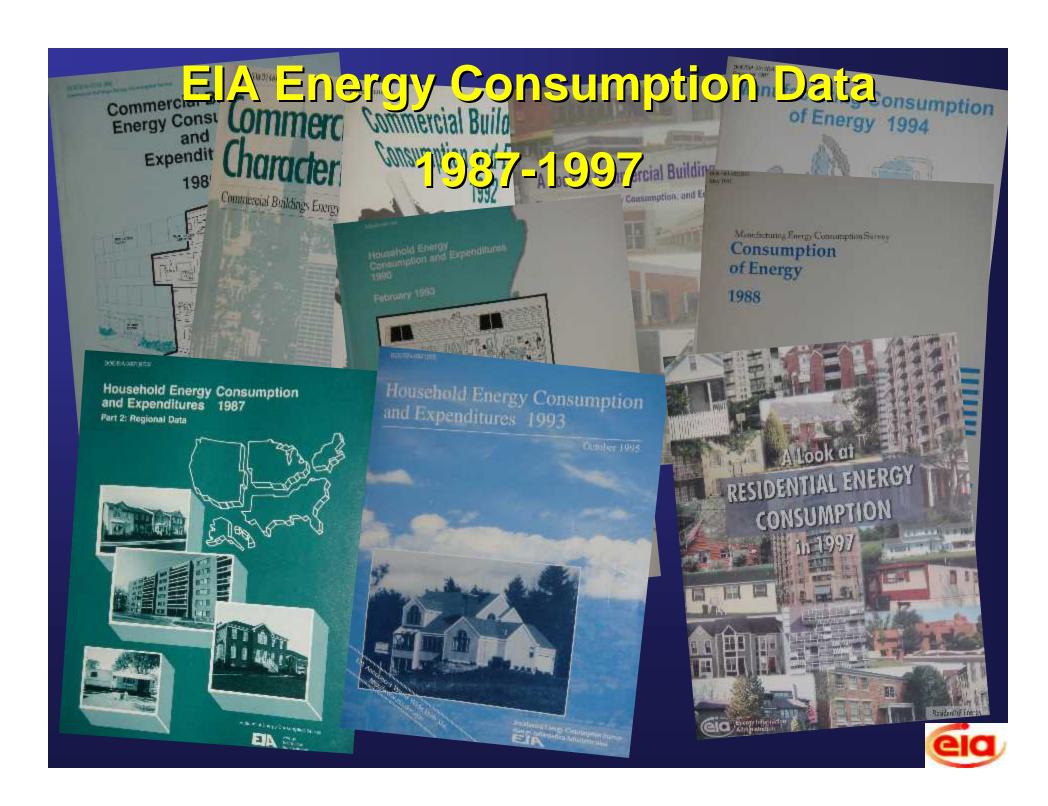
The Department of Energy (DOE)
 Organization Act of 1977, Public Law 95-91,
 created the Department of Energy. Section 205
 of this law established the Energy Information
 Administration (EIA).

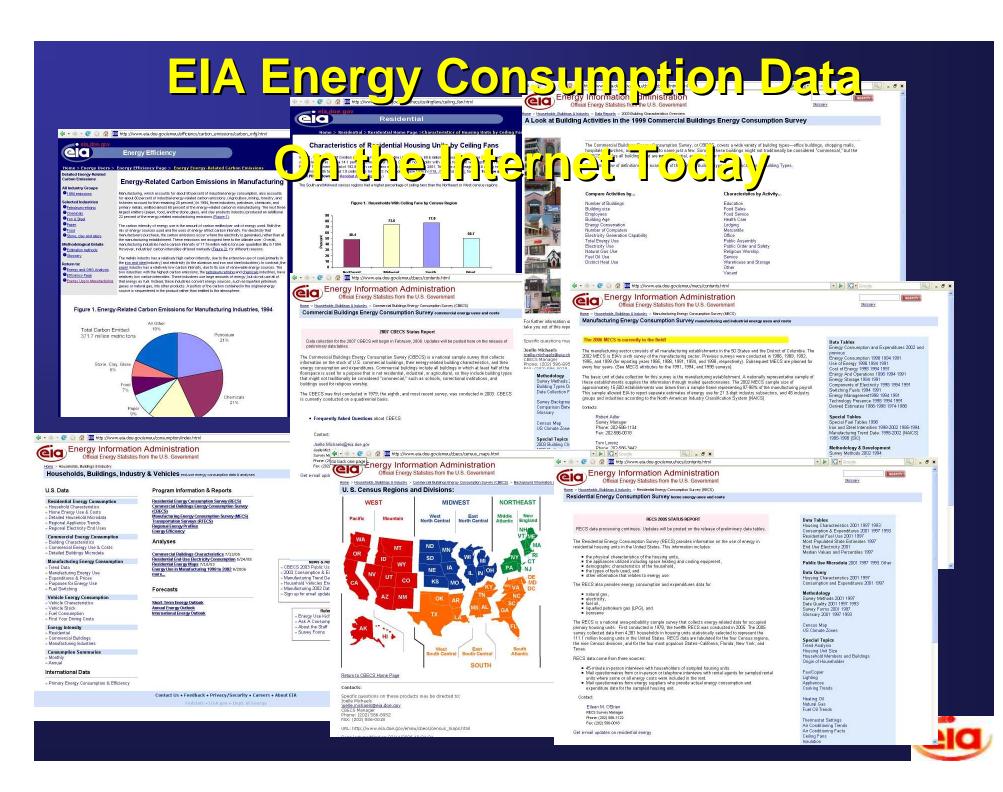
At the same time three sectors were designated to have mandated surveys:

- Residential Energy Consumption Survey
- Commercial Buildings Energy Consumption Survey
- Manufacturing Energy Consumption Survey









### Most of the Data Collected Have Been the Same Over the Years-- However....

- Adapted to Current Energy Issues and Changing and New Technologies
  - Demand-Side Management
  - Fuel Switching
  - Garages with Electric Outlets
  - Energy Star Awareness and Appliance Purchases
  - Water Usage Questions
  - Data Centers
  - Computers and Other Office Equipment



### Today's Issues Will Increase Demand for Energy Consumption Data

- Climate Change
- Energy Security

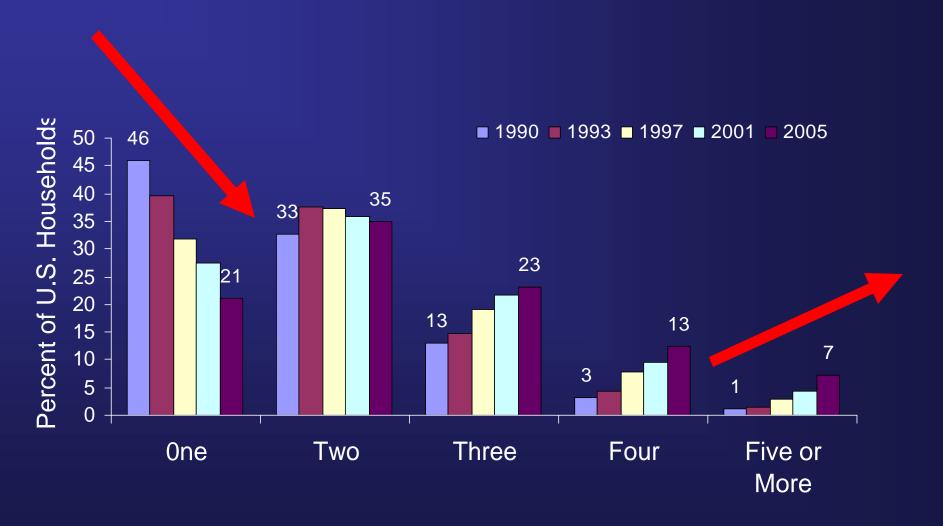
**One Example** 

Energy Efficiency as a Resource

**Energy Efficiency Indicators** 



#### 8 Million Households Have 5 or More TVs





# Energy Independence and Security Act of 2007

- TITLE IV--ENERGY SAVINGS IN BUILDINGS AND INDUSTRY
  - SEC. 401. DEFINITIONS.
    - (13) HIGH-PERFORMANCE GREEN BUILDING
      - The term `high-performance green building' means a high-performance building that, during its life-cycle, as compared with similar buildings (as measured by <u>Commercial Buildings Energy</u> <u>Consumption Survey</u> or <u>Residential</u> <u>Energy Consumption Survey</u> data from the Energy Information Agency).



### Federal Buildings

- SEC. 433. FEDERAL BUILDING ENERGY EFFICIENCY PERFORMANCE STANDARDS.
  - The buildings shall be designed so that the fossil fuel-generated energy consumption of the buildings is reduced, as compared with such energy consumption by a similar building in fiscal year 2003 (as measured by <u>Commercial Buildings Energy Consumption Survey</u> or <u>Residential Energy Consumption</u>
    <u>Survey</u> data from the Energy Information Agency), by the percentage specified in the following table:

