

## The Flow of Energy in the United States and World: The Department of Energy Spaghetti Chart

January 17th 2013 – ME Auditorium 0800

### With Guest Lecturer Mr. A.J. Simon

Group Leader for Energy  
Atmosphere Earth and Energy Division  
*Lawrence Livermore National Laboratory (LLNL)*

Using the LLNL energy flow charts, this lecture will describe our energy system in the context of global energy resource and environmental constraints.



Mr. A.J. Simon

### Topics will include:

- A brief explanation of how to read iconic graphic
- Exploration of natural and anthropogenic energy and carbon cycles

In the mid-1970's LLNL published the first Sankey Diagram (Energy Flow Chart) for the United States. The diagram provides an intuitive, one-page summary of the most important features of the energy economy. It has since been adapted to depict other flows, regions and economic sectors.

The speaker, A.J. Simon, is an Energy Systems Analyst and Group Leader for Energy in the Atmosphere Earth and Energy Division at LLNL. He is the principal investigator for LLNL's Energy Flow Charts, which are a key tool for scientists and policymakers in visualizing the world's and nation's energy systems in the past, present and future.

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