

TN Energy Uses

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The Learning Community solarvalleycoalition.net

TN Energy Consumption by Sectors (2004)

Tennessee's total energy consumption increased by over 447 trillion Btu (131 billion kWh) between 1980 and 2001, an average annual increase of 1.1 percent.

Transportation: 27.5%

- In TN, half of the oil is used for gasoline. Remaining oil used in other fuels, kerosene, asphalt, road oil, and other products.
- Transportation accounts for more than 67 percent of the oil we consume in the United States.
- The United States consumes almost nine million barrels of gasoline daily – 43 percent of total global daily gasoline consumption.
- Per capita petroleum use was estimated to be 20 barrels for 2001, an increase of 4.5 barrels since 1980. Annual per capita petroleum use for transportation was estimated to be 18 barrels for 2001, an increase of 2.4 barrels since 1980.2

Residential Energy Use: 22.2%

- Space heating - 33.6%
- Water heating - 13%
- Lighting - 11%
- Space cooling - 10.7%
- Refrigeration - 7.6%
- Other - 24.1

Air Conditioners: American households typically spend more than \$200 annually on air conditioning. Households in some regions of the South can easily spend twice that much. Over an air conditioner's lifetime, only one-fourth of the total cost is for the purchase of the air-conditioning unit. The greater cost – three-fourths – is for the energy to run the air conditioner.

Commercial: 16.5%

Industrial: 33.8%

Energy Sources: Electricity (includes losses due to generation and transmission) - 47%, Natural Gas - 17%, Petroleum - 16%, Coal - 12%, Biomass - 8%.

TN Rankings:

TN ranks 16th in energy consumption (2004)

TN ranks 17th in energy use per capita and per Gross State Product.

TN electricity consumption increased by 74.7 trillion Btu (21.9 billion kWh) between 1980 and 2001.

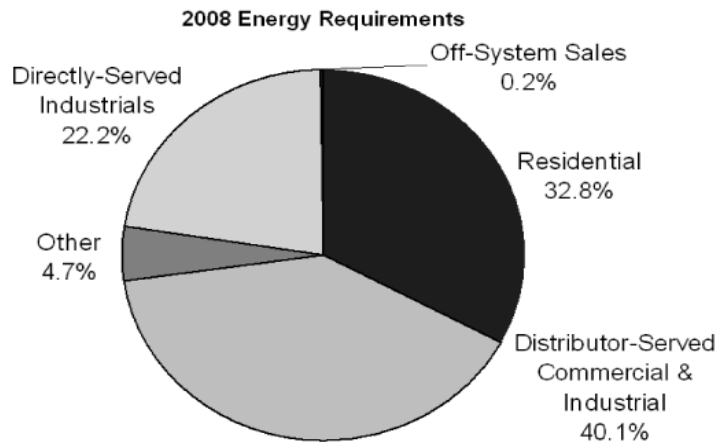
Global Equity

- The US has 5% of the world population and consumes 26% of its energy. In 1997, US residents consumed an average 12,133 kWh of electricity, nine times greater than the average for the rest of the world. Two billion people have no electricity.
- The average US resident uses 15 times more energy than those living in a developing country.
- Among the industrialized countries, Canada has the highest per capita energy use followed by the US. Italy has the lowest per capita energy use among industrialized nations.



Electricity Sales Projection

- Native load sales growth is 3.7% (6,362 GWh) higher than the 2007 budget

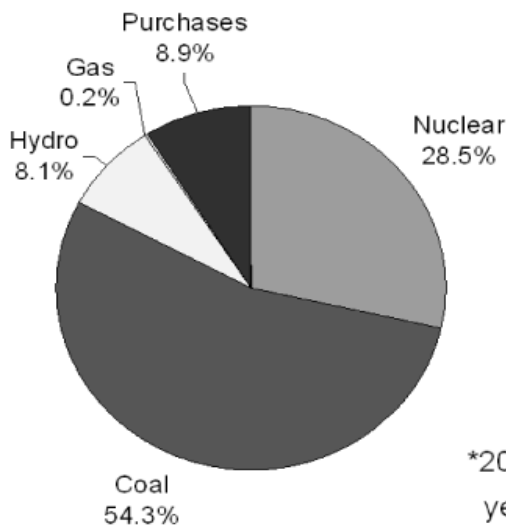


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Energy Supply

2008 MWh Generation by Sources



<u>Supply</u>	<u>Change from 2007 Budget</u>
Nuclear	8.7% ↑
Coal	1.1% ↑
Gas	139.2% ↑
*Hydro	13.1% ↓
Purchases	14.9% ↑

*2008 Hydro generation based on third year drought model

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Resources:

Resources for the Future: *Global Energy Resources*; TN Energy Office: *TN Energy Consumption, Production, and Price Statistics*; US Energy Information Administration: *Consumption Briefs* (www.eia.doe.gov); US Energy Efficiency and Renewable Energy: www.eere.energy.gov.

Louise Gorenflo prepared this fact sheet, the sixth in a series to encourage civic involvement in community problem-solving. Contributions made to The Learning Community are tax deductible. You may send your contributions to or request information from The Learning Community at 184 Hood Drive, Crossville TN 38555 (484-2633.)