



New York State's Energy Efficiency Landscape

How much energy do we use?

New York State direct electricity usage (2006): 1,717,878 mWh

New York State average retail price (2006): 15.27 cents per kWh

New York State record peak load: 33,939 MW (August 2, 2006)

- NYS record winter peak load: **25,540 MW** (December 20, 2004)
- New York City average peak load: **11,400 MW**
- Projected New York City Average in 2030: **14,700 MW** (a 29% increase). *PlaNYC 2030* projects a gap of **2,300 MW** between in-city generating capacity and expected peak demand in 2030.

Average monthly household consumption: 591 kWh

- Average monthly household consumption in New York City: **300 kWh**.

Basic Terminology:

Kilowatt/Kilowatthour (KW/kWh): A measure of energy. A kilowatt is 1,000 watts. A kilowatthour is 1,000 watts of electricity used over one hour.

Megawatt/Megawatthour (MW/mWh): A measure of energy equal to 1 million watts (or 1,000 kilowatts). A megawatthour is 1 million watts used over one hour. The capacity of commercial power plants is often expressed in terms of megawatts. One megawatt is generally considered sufficient to power 1,000 homes.

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Gigawatt (GW): A measure of energy equal to 1 billion watts (or 1,000 megawatts).

Peak demand/load: These terms can be use interchangeably to denote the period of highest electricity usage. Peak demand in New York State generally occurs during the summer months and is driven by air conditioner usage.

Basic categories of energy-efficiency policies:

Policy	Program Examples
Education and Outreach	Advice/Aid in Implementation, Comparison & Endorsement Labeling, Consultation, Information Dissemination, Promotion
Incentives and Subsidies	Feed In Tariffs, Grants, Preferential Loans, Rebates, Third Party Financing
Regulatory	Assessment, Auditing, Benchmarking, Mandates, Monitoring, Quotas, Standards, Regulatory Reform
RD&D	Demonstration Projects, Research Projects, Technology Development
Tax	Credits, Exemptions, Reductions
Tradable Permit Systems	RGGI, Renewable Energy Certificates

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