A Glossary

Cooking Energy (kWh or kBtu)
The total energy consumed by an appliance as it is used to cook a specified food product.

Cooking Energy Consumption Rate (kW or kBtu/h)
The average rate of energy consumption during the cooking period.

Cooking Energy Efficiency (%)
The quantity of energy input to the food products; expressed as a percentage of the quantity of energy input to the appliance during the heavy-, medium-, and light-load tests.

Duty Cycle (%)
Load Factor
The average energy consumption rate (based on a specified operating period for the appliance) expressed as a percentage of the measured energy input rate.

\[
\text{Duty Cycle} = \frac{\text{Average Energy Consumption Rate}}{\text{Measured Energy Input Rate}} \times 100
\]

Energy Input Rate (kW or kBtu/h)
Energy Consumption Rate
Energy Rate
The peak rate at which an appliance will consume energy, typically reflected during preheat.

Heating Value (Btu/ft³)
Heating Content
The quantity of heat (energy) generated by the combustion of fuel. For natural gas, this quantity varies depending on the constituents of the gas.

Idle Energy Rate (kW or Btu/h)
Idle Energy Input Rate
Idle Rate
The rate of appliance energy consumption while it is holding or maintaining a stabilized operating condition or temperature.

Idle Temperature (°F, Setting)
The temperature of the cooking cavity/surface (selected by the appliance operator or specified for a controlled test) that is maintained by the appliance under an idle condition.

Idle Duty Cycle (%)
Idle Energy Factor
The idle energy consumption rate expressed as a percentage of the measured energy input rate.

\[
\text{Idle Duty Cycle} = \frac{\text{Idle Energy Consumption Rate}}{\text{Measured Energy Input Rate}} \times 100
\]

Measured Input Rate (kW or Btu/h)
Measured Energy Input Rate
Measured Peak Energy Input Rate
The maximum or peak rate at which an appliance consumes energy, typically reflected during appliance preheat (i.e., the period of operation when all burners or elements are “on”).

Pilot Energy Rate (kBtu/h)
Pilot Energy Consumption Rate
The rate of energy consumption by the standing or constant pilot while the appliance is not being operated (i.e., when the thermostats or control knobs have been turned off by the food service operator).
Preheat Energy (kWh or Btu)
Preheat Energy Consumption
The total amount of energy consumed by an appliance during the preheat period.

Preheat Rate (°F/min)
The rate at which the cook zone heats during a preheat.

Preheat Time (minute)
Preheat Period
The time required for an appliance to “pre-heat” from the ambient room temperature (75 ± 5°F) to a specified (and calibrated) operating temperature or thermostat set point.

Production Capacity (lb/h)
The maximum production rate of an appliance while cooking a specified food product in accordance with the heavy-load cooking test.

Production Rate (lb/h)
Productivity
The average rate at which an appliance brings a specified food product to a specified “cooked” condition.

Rated Energy Input Rate
(kW, W or Btu/h, Btu/h)
Input Rating (ANSI definition)
Nameplate Energy Input Rate
Rated Input
The maximum or peak rate at which an appliance consumes energy as rated by the manufacturer and specified on the nameplate.

Recovery Time (minute, second)
The average time from the removal of the cooked food product until the appliance has returned to a specified ready-to-cook condition.

Test Method
A definitive procedure for the identification, measurement, and evaluation of one or more qualities, characteristics, or properties of a material, product, system, or service that produces a test result.

Typical Day
A sampled day of average appliance usage based on observations and/or operator interviews, used to develop an energy cost model for the appliance.