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P_i is the power of the ith unit. While x_i, y_i, and z_i are the ith generator's cost coefficients, m_i and n_i are the valve point effect coefficients.

The uncertainty of wind production is characterized by W_{dut}, while the divergence of wind output is represented by dW_i, $n2$ represents the standard distribution function. W_{dfct} represents the projected wind energy production at time t.

Fluctuations in the price of electrical power will elicit one of the following responses in demand. Certain loads, like lighting loads, are not adjustable between periods and may only be activated or deactivated. Consequently, these loads exhibit sensitivity only at a certain moment, known as "self-elasticity", which is negative consistently. Consumption may be moved from high-demand to low-demand times, such as process loads. Multi-period sensitivity refers to this phenomenon and is quantified by "cross elasticity", which is consistently positive [47].

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