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The proportion of renewable energy generation has increased [27], and a source grid load storage friendly interaction system has emerged [28]. It integrates source, grid, load, and storage resources, optimizes and adjusts equipment, ensures supply-demand balance, avoids losses, and has various control methods. Figure 1 shows its basic framework.

The framework in Fig. 1 is divided into two layers: the upper layer coordinates decision-making, optimizes calculations using real-time data, and sends the results to lower level devices; Real time regulation at the lower level to achieve power dispatch.

The four parts of the source network load storage communicate bidirectionally with the coordination system, uploading status information and executing instructions to achieve global control. Electricity comes from renewable and traditional energy sources [29]; The network includes flexible transmission and distribution equipment; The load is divided into two categories: rigid and flexible, with adjustable flexibility; Common energy storage methods include lead-acid and lithium batteries [30].

Thermal power generation not only undertakes the main task of power supply, but also has an important function of supporting flexible regulation of the power grid. During operation, the output power can be adjusted according to demand to achieve the maximum and minimum power output, ensuring the stability of the power grid and the reliability of power supply.

Connecting lines to bridge the electrical system, scheduling flexible operating states, limiting power and network structure. The transmission capacity is expressed in power, as follows:

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