

DR is one of the rapidly developing mechanism of generation and consumption balancing in UPS of Russia.

The preconditions of development and application of DR mechanism in UPS of Russia are rapid increase of technological opportunities for consumers to change their consumption based on telecommunication and automatic technologies development, dispersed generation and energy storages integration.

Currently there is no generating capacity deficit in UPS of Russia. That's why DR mechanism is aimed to electric energy and power market economic efficiency increase. The value of DR services is calculated by several stages.

Quarterly selection of DR services providers and fixing obligations of price and volume of the services. In third quarter of 2022 the total ordered volume of DR was 1121 MW and auctioned volume was 1056 MW.

Daily submission of notifications by aggregators about readiness/unavailability of DR providers to provide services for consideration in day-ahead market calculations for each node of the market model.

Decision about using DR is accepted in frames of day-ahead market procedure calculation and submit to DR providers on day before day of capacity decrease. DR is decided when the economic effect of DR exceed the threshold value. Assessment is done for day-ahead market calculation without and with DR.

Consideration of DR using in balancing (intraday) market and frequency control provision by DR are planned in prospective.

The technological neutrality approach is used for DR mechanism. Requirements concerns consumers as whole, but not for the type of technology that is used for DR.

