



АКЦИОНЕРНОЕ ОБЩЕСТВО  
«СИСТЕМНЫЙ ОПЕРАТОР  
ЕДИНОЙ ЭНЕРГЕТИЧЕСКОЙ СИСТЕМЫ»

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**SO UPS Chair presents global trends of power systems transformation at SPIEF-2021 in St. Petersburg**

*SO UPS Chairman of the Management Board Mr. Fedor Opadchiy on June 4 joined the Round Table 'Challenges and Opportunities for the Global Power Sector in a New Era' of St. Petersburg International Economic Forum to discuss key global trends of energy sector transformation.*

The panel discussion featured the representatives of the Federal Ministry of Energy, and the leaders of the largest energy companies and industry associations.

Mr. Opadchiy said that the global energy landscape has been changing dramatically in recent years. The unique changes underline some of the challenges the industry faces on the journey to climate security, decarbonization and digitalization. He noted that the 'Value of the Power Grid' White Paper prepared by the GO15 Association offered an insight into the pivotal role of large power systems in helping to mitigate further changes.

"Large power systems will continue to develop, and distributed resources should not be regarded as an alternative. On the contrary, DER and renewable progress calls constantly for enhancement of large systems, otherwise reliable power supply, quality of service, and competitive markets efficiency could not be maintained," he said. GO15 has identified one of the top priorities of RES integration – further development of the bulk power system. Many countries see the need to transfer electricity from large RES production centers to large load centers, and this trend has already become the main driver of the grid development.

"Grid transformation also requires significant changes in consumers' status when they begin to participate more and more actively in the markets. Consumers armed with generation and storage are ready to turn up, turn down, or shift their demand in real-time upon the request of the system, and even more – to supply electricity to the grid. Such an opportunity entails large-scale adjustment of distribution networks," he said.

Another top development priority of large systems is all about encouraging consumers to deliver services of demand response, voltage and frequency regulation. "We will need aggregational tools for hundreds and thousands of end consumers ready to enter the market and offer their resources to the system. Our Demand Response pilot project is a good example – today more than 300 demand response providers with total 750 MW participate in balancing in the wholesale market," he said.

"The regulatory tasks remain as important as ever in the foreign countries when it comes to the systems with high RES penetration, and results in modification of markets models. RES generation lessens the need for electricity produced by conventional generation, hence, its wholesale revenue, while the need for reliability services provided by conventional generation at the same time significantly increases following the increase of RES in the system. Market models must adapt accordingly," he added.

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