ESIG Webinar: ERCOT Contingency Reserve Service (ECRS)	
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Question	Answer
What is the purpose of using the language Load Resources	ECRS only need to respond to the deployment within 10 minutes. Load resources can
that may or may not be controlled by high-set under-	decide how to deploy, manually, through a relay or other auomations.
frequency relays;	
Does this mean the UFR status needs to be disabled or	UFR needs to be disabled when a NCLR is ONECRS.
enabled when a NCLR is ONECRS?	
When renewable wind power is used the inverter used act to	This is another phenomenon, which is not suitable to be addressed by ECRS.
destabilize the AC grid by not providing Active Phase Jump	
Power. What are you doing to combat this	
How to estimate the sustained net load ramps?	This is estimated by looking at the change in net load for the interested period, like 5-
	min, 10-min
Is the frequency being measured locally to determine the	yes.
MWs required for frequency restoration for the entire power	
system?	
Why are requirements for ECRS additive? That is frequency	We need to cover two different reliability risks so that we add two together. Reg
recovery and ramping needs? Is Reg requirement subtracted	requirement is not substracted from it.
from that?	
what's the difference between ECRS-Gen and ECRS-Load?	ECRS-GEN is SCED dispatachable and it can be automatically deployed based on the
	frequency deviation. ECRS-Load can only be manually deployed by operators.
As a follow-up: can a NCLR provide RRSUFR and ECRS	NO
simultaneously, if the MW do not overlap, for example a	
10MW load has 5MW of ECRS and 5MW of RRSUFR.	
How is the traditional synchronous generation in ERCOT	The energy produced by SGs is trending down as more wind/solar generators are
trending in the coming years?	connected to ERCOT grid.
Can the ECRS be used to mitigate transmission line thermal	yes if this is ony the option to resolve the local reliability problem
overloading following a line, generation, or, load outage in real	
time?	
Why is the total of the frequency recovery and load ramp	ERCOT like to cover two reliability risks, to be more conservative
capacities considered? Why is it not the larger of the two?	
How often do you update the ECRS requirement? Hourly in	This is calculated in Dec. for the incoming year
Real-Time or Daily?	

When participating as a load resource, does it matter how the	The requirements for any source to provide ECRS are 1) to provide response for at
load is reduced? If a site has generators or a battery, is that an	least 2 hours and 2) to respond within 10 min
acceptable means to respond?	
Can you provide any insight into how pricing for ECRS will be	We have not studied this part
derived, will be it similar to RRS?	
Why is ERCOT trying to prevent EEA1 ?	ERCOT like to operate the grid in a more conservative way
When will the protocols be updated to show ECRS testing	This Spring
procedures and necessary telemetered data points?	
You say ECRS used if RegUp is insufficient, but isn't RegUp for	If frequency is below 59.1 Hz, most likely, Reg-up is exhausted. ECRS can be deployed
frequency control? Is ECRS used to restore available RegUp	and as a result of ECRS deployment, hopely, Reg-up will be restored
capacity?	
After the 2 hour timeframe, I would assume the Service is	After 2 hours, the resources can stop responding to deployment instructions
designed to account for the responded capacity disappearing,	
is that accurate?	
Will the amount procured for Nonspin decrease after ECRS is	Yes. Non-Spin requirement will decrease after ECRS goes alive.
added as a product? Or is this an additional product in	
addition to current Nonspin procurement?	
When is ECRS expected to be available to the market?	This June
In one of youir slides you refered to the RFR and the FFR	FFR was implemented at ERCOT
serices. re these services already implemented or under	
consideration at the present time?	
PFR and FFR can provide some of the services of the ECRS.	No. PFR and FFR only provide a fast frequency response for a short period of time, and
Comments?	they are different from ECRS.