

Potential White paper topics for the 2021-22 IRM Study Cycle and Beyond

The list below provides study topics that could improve the IRM Technical Study. Not all these efforts can be pursued simultaneously. Additionally, the NYSRC Executive Committee is reviewing extreme weather events and the NYSRC Resource Adequacy Working Group is reviewing Loss of Load metrics in the IRM Study.

ICS requests feedback on prioritization, including the prioritization of topics not included on this list.

The NYSRC and NYISO also plan to create Strategic Plan outlining the evolution of the IRM study over the next several years.

Current White Paper Topics

	White Paper Topic/Concern	<i>Status</i>	<i>Remaining Level of Effort</i>	<i>Scheduled Completion Dates*</i>	<i>Priority</i>
1	High Renewable Phase II <i>High Renewable penetration</i>	Scoped and in-progress		February 2021	
2	Simplified External Area Models Phase I- Adopt RNA Model <i>Eliminate drastic year to year changes</i>	Scoped and in-progress		March 2021	Low
3	Load Forecast Uncertainty <i>Rapid growth with little data</i>	Scoped and in-progress		May 2021	High
4	Load shape selection <i>Possibly dated and unaligned with LFU and BTM Solar- Had review in 2019</i>	Scoped and in-progress		May 2021	Low

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Potential New Papers					
5	Modeling Energy Limited Resources <i>Shift from using simplified model to a more permanent one</i>	Need Scope Revisions			High
6	Modeling the duration limits for SCRs <i>Shift from using simplified model to a more permanent one</i>	Need Scope			Med
7	Zonal Shift to Tan 45	Need Scope		Scope completed in 2021	Low
8	Modeling Co-located Storage + Generation resources	Need scope			Low
9	Capturing wind/solar variability using additional years of production data	Need scope			Low
10	Simplified External Area Models Phase II – Create new model or fix EA from each neighbor <i>Eliminate drastic year to year changes</i>	Check with above scope		Scope complete in 2021	Low
11	Modeling Behind the Meter Solar	Need scope		2022+	Low
12	Review of extreme weather events			EC driven	
13	Review of loss of load metrics			EC and RAWG driven	

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Other Considerations					
14	UPNY-CONED topology rating sensitivity				
15	Establishing a method for evaluating the inclusion of proposed new resources				
16	Incorporating Transmission Security Limits into the IRM Study				
17	Better model of study year change				
18	Seasonal EFORds				
19	Resources that only operate in the winter				
20	Modeling distributed energy resources (“DERs”)				
21	Process changes to manage a winter peaking system				
22	Should the IRM use forecast wind/solar data when historical generation data is unavailable (offshore wind)				
23	What is the longevity of the tan45 methodology (due to more resources, less congestion, etc)				
24	Can the Tan45 process accommodate additional ICAP Market Localities				
25	Study the use of the optimizer to set all capacity requirements				

*Scheduled Completion Dates subject to change