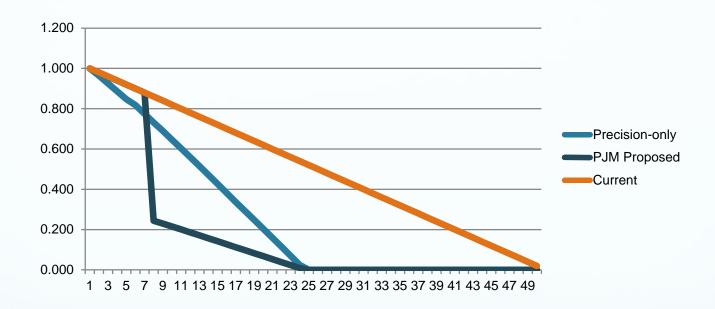
## Modeling the PJM proposed performance scoring algorithm

## Proposed score is not proportional to performance

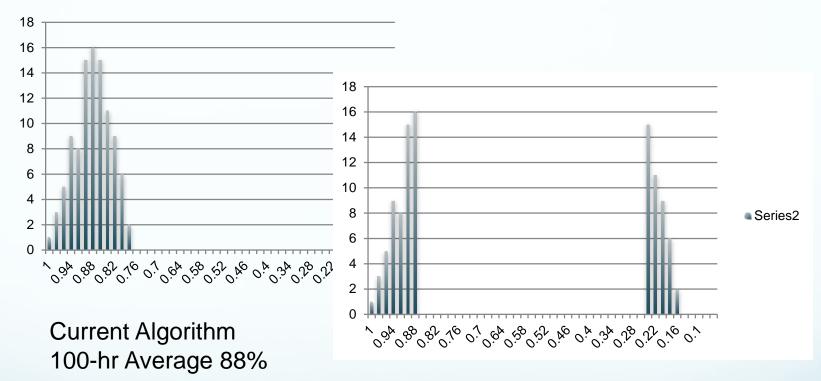


PJM score exhibits a huge discontinuity that does not reflect similar drop in value to the grid

Current score over-values contribution, awarding high scores low values

Precision-only score awards lower scores for lower value, but in a linear way

## Score severely penalizes existing resources



New Algorithm 100-hr Average 61%

Current average of 88-90% required to surpass 75% in new algorithm

Very difficult to score less than 84-88%, without dropping to 25%

## **Model Extract**

	Current	Assumed	Assumed	Inferred	New	
	Score	Delay	Correlation	Precision	Score	
Model based on slowly decaying delay	1.00	1.000	1.000	1.000	0.999	
	0.98	0.995	0.980	0.967	0.980	
	0.96	0.990	0.960	0.932	0.960	
	0.94	0.985	0.941	0.896	0.940	
Faster decay of correlation	0.92	0.980	0.922	0.859	0.920	
	0.9	0.975	0.904	0.823	0.900	
Based on Mosaic modeling of diverse resource types	0.88	0.970	0.886	0.786	0.880	
	0.86	0.966	0.868	0.748	0.249	
	0.84	0.961	0.851	0.710	0.237	
	0.82	0.956	0.834	0.672	0.224	
Different resources will be differently impacted	0.8	0.951	0.817	0.634	0.211	
	0.78	0.946	0.801	0.595	0.198	
	0.76	0.942	0.785	0.555	0.185	
	0.74	0.937	0.769	0.516	0.172	
	0.72	0.932	0.754	0.476	0.158	
	0.7	0.928	0.739	0.436	0.145	