



2009 IRM Study

Planning Committee
September 16, 2009

- 2009 IRM Study will re-set parameters for 2012/13 Delivery Year and set parameters for 2013/14 Delivery Year.
- “Base Case” is defined to be:
 - ATSI modeled inside PJM
 - “Small World” modeled at collective “1 in 10” LOLE as determined by PRISM
 - Load model represented out to 4.2 sigma

2012/13 Delivery Year

IRM = 15.4% FPR = 1.0796 DR Factor = 0.955

2013/14 Delivery Year

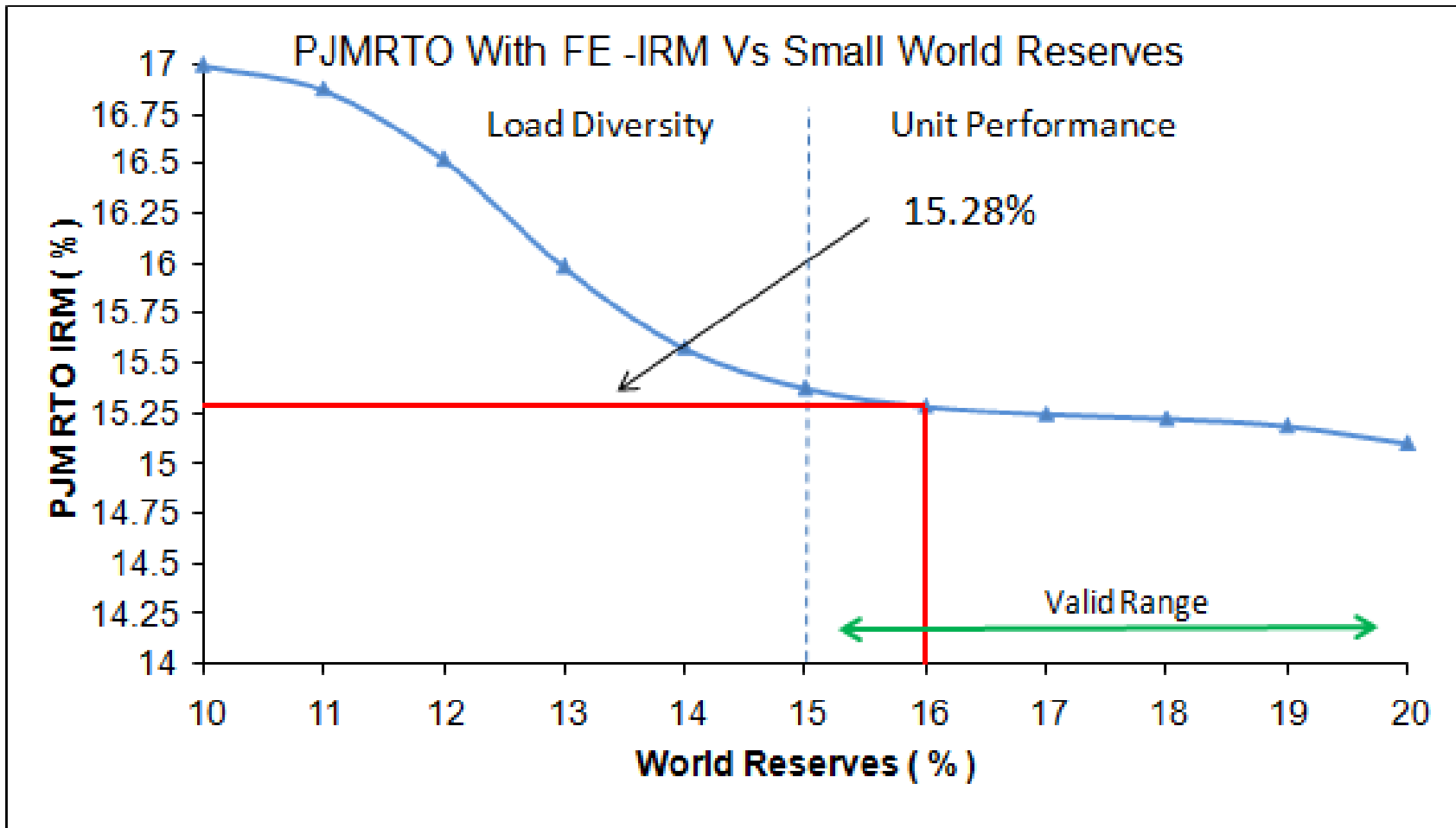
IRM = 15.3% FPR = 1.0784 DR Factor = 0.957

2008 IRM Study Results (2012/13 DY)

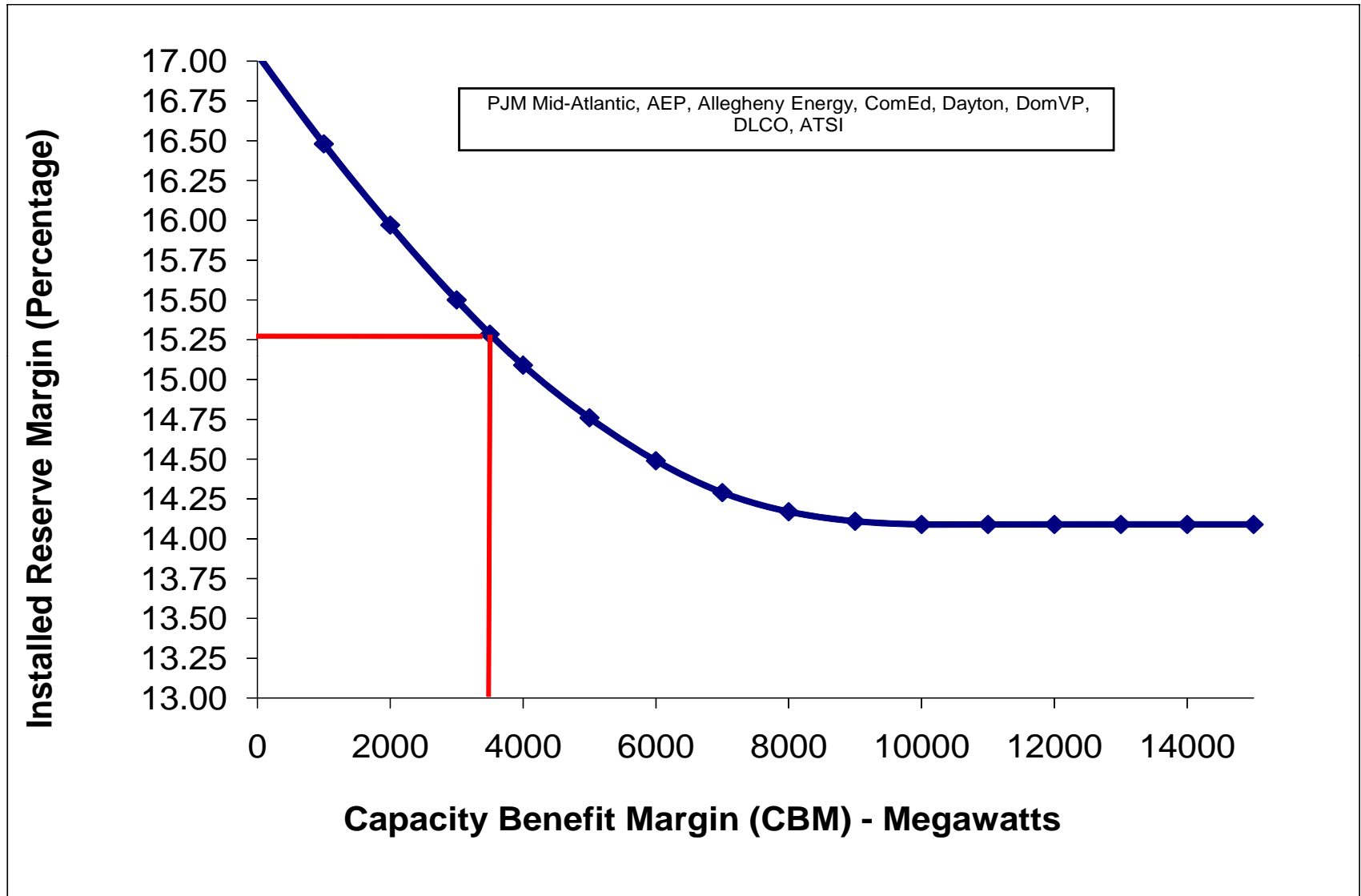
IRM = 16.2% FPR = 1.0872 DR Factor = 0.950

- 0.9% reduction in IRM is primarily due to increase in load diversity between PJM and World
 - Result of modeling refinements
 - World monthly load shape now recognizes intra-World diversity
 - PJM peaks in July; World peaks in August
 - Value of CBM increased from 1700 MW to 2800 MW
- 5 year PJM average forced outage rate changed very little from 2008 Study

- Base Case IRM of 15.3% is unaffected by:
 - ATSI modeled in or out of PJM
 - Modeling of Small World or Large World areas
 - World is modeled at “1 in 10” using individual region reserve requirements or “1 in 10” overall as calculated by PRISM
 - Increasing World reserve level beyond 15%



World reserves varied, PJM RTO solved for 1D 10 Yr - Mixed Mode Solution



- Number of sigma to represent in load model
- Load to use in denominator when calculating IRM in PRISM
- Amount of World load management assumed to be implemented when PJM is in a capacity emergency

- RRAWG meetings on September 25 and October 13
 - Seek to resolve outstanding issues and develop recommendation to PC
- PC meeting on October 22
 - Review of IRM Study Report and vote on recommendation to MRC
- November – December
 - Review and recommendation at MRC and MC
- January 2010
 - PJM Board approval of IRM, FPR and DR Factor for 2012/13 and 2013/14