

What Price Reliability?



or

How To Intervene in a Market When It May Not Be Failing

David O'Connor

Commissioner

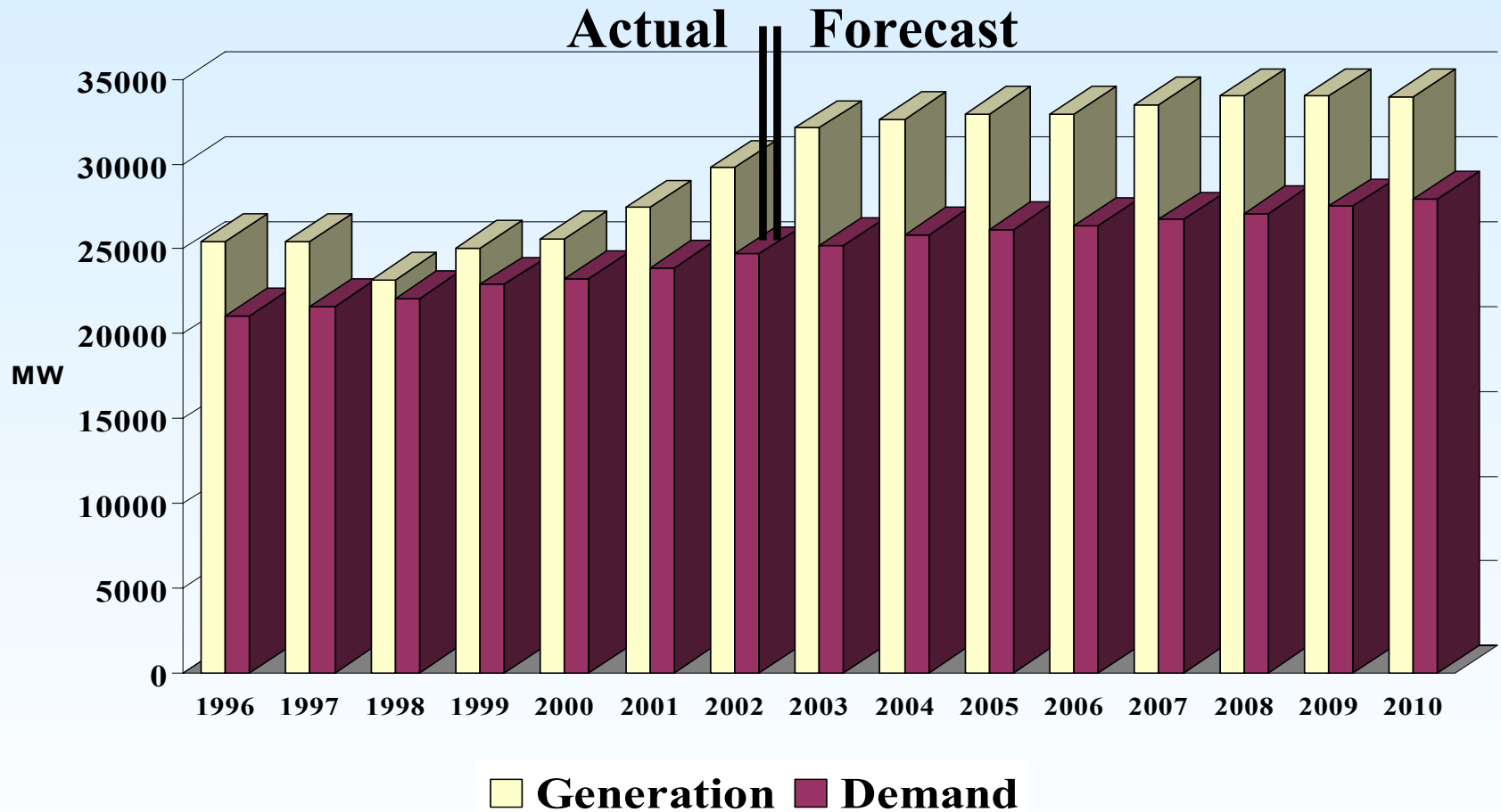
Massachusetts Division of Energy Resources

Harvard Electricity Policy Group

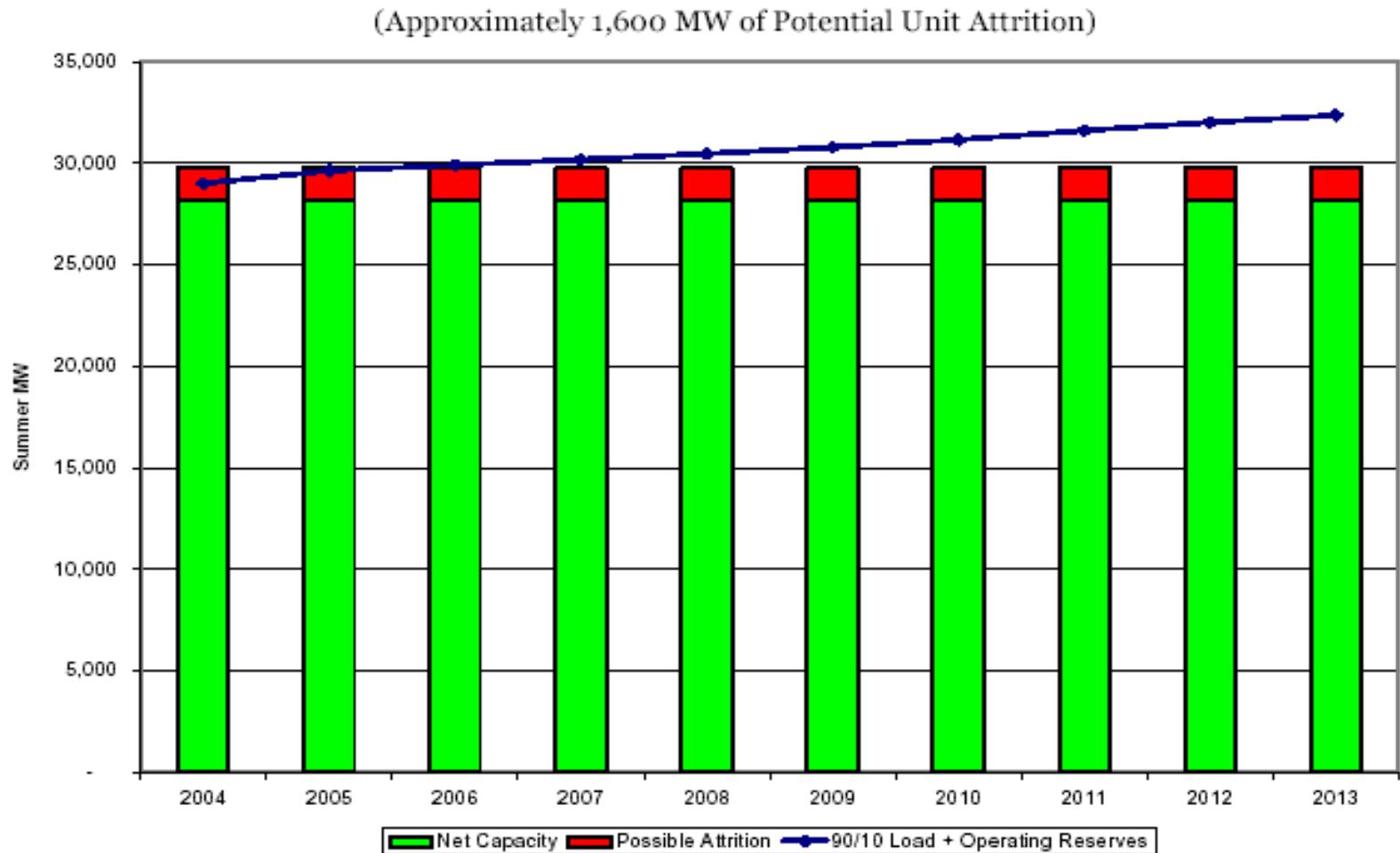
Austin, Texas

December 2, 2004

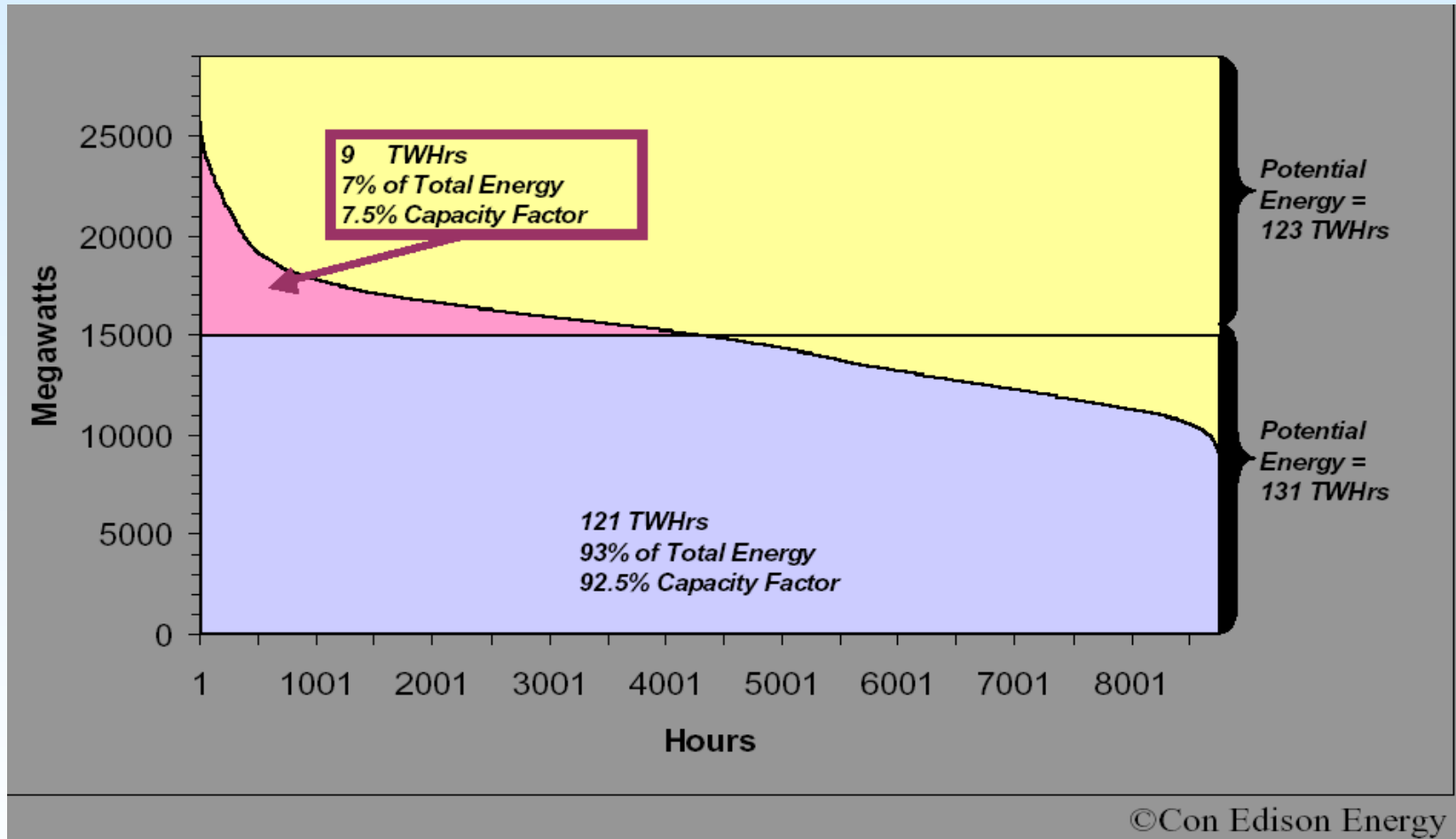
New Generation Has Increased Capacity Reserves



ISO-NE's View: Supply Surplus is Short-Lived

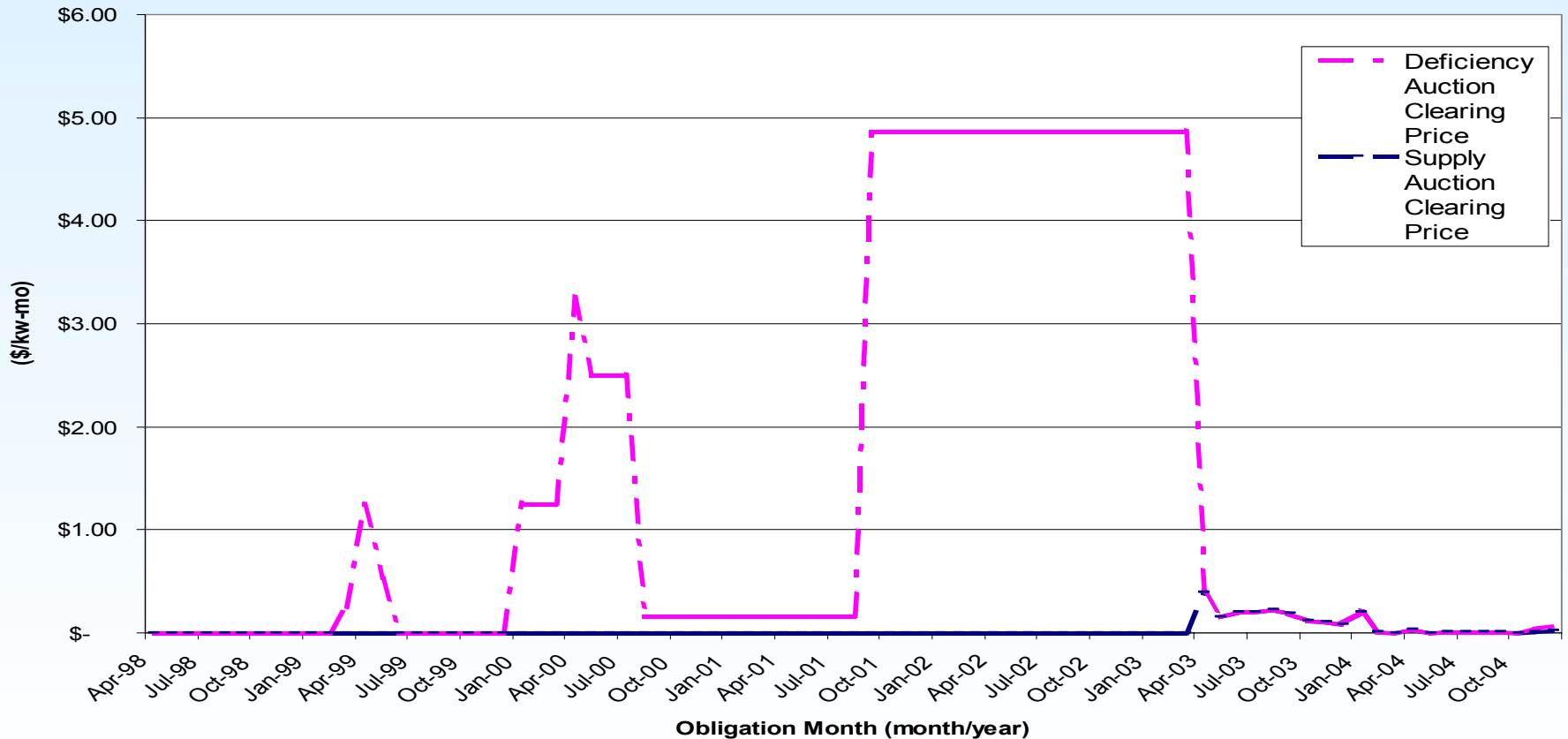


New England 2002 Load Duration Curve



Capacity Clearing Prices in NE

**New England ICAP Clearing Prices:
Deficiency Clearing Price (1998-2004) and SMD Supply Auction Clearing Price (March 2003-
December 2004)**



ISO-NE Capacity Proposal

March 2004

- ISO-NE filed its proposal at a time when
 - More than 40% of generation was financially “distressed” and
 - More than 5% was receiving “reliability must run” payments.
- ISO-NE proposed a “market” for capacity
 - Load Serving Entities must buy capacity to cover their obligations
 - Generators may sell their capacity at a “regulated” price
- “Administrative” Demand Curve
 - Similar to NY
- Reserve capacity calculated in each of 4 zones:
 - Greater Boston, CT, ME and Rest of NE
- LSE’s may hedge with bi-lateral contracts

An Alternative Capacity Proposal

March 2004

- A single, region-wide demand curve
 - based on NY's state-wide curve
- Generators must make minimum commitment to operate at least three years beyond the current capacity payment
- Capacity level should be calculated on then-current “objective capability” (OC)
 - Not on the historic level of excess capacity
- Payments halt at 12 percent above OC
 - Rather than 18 percent above
- Align rules with NY to eliminate market seams

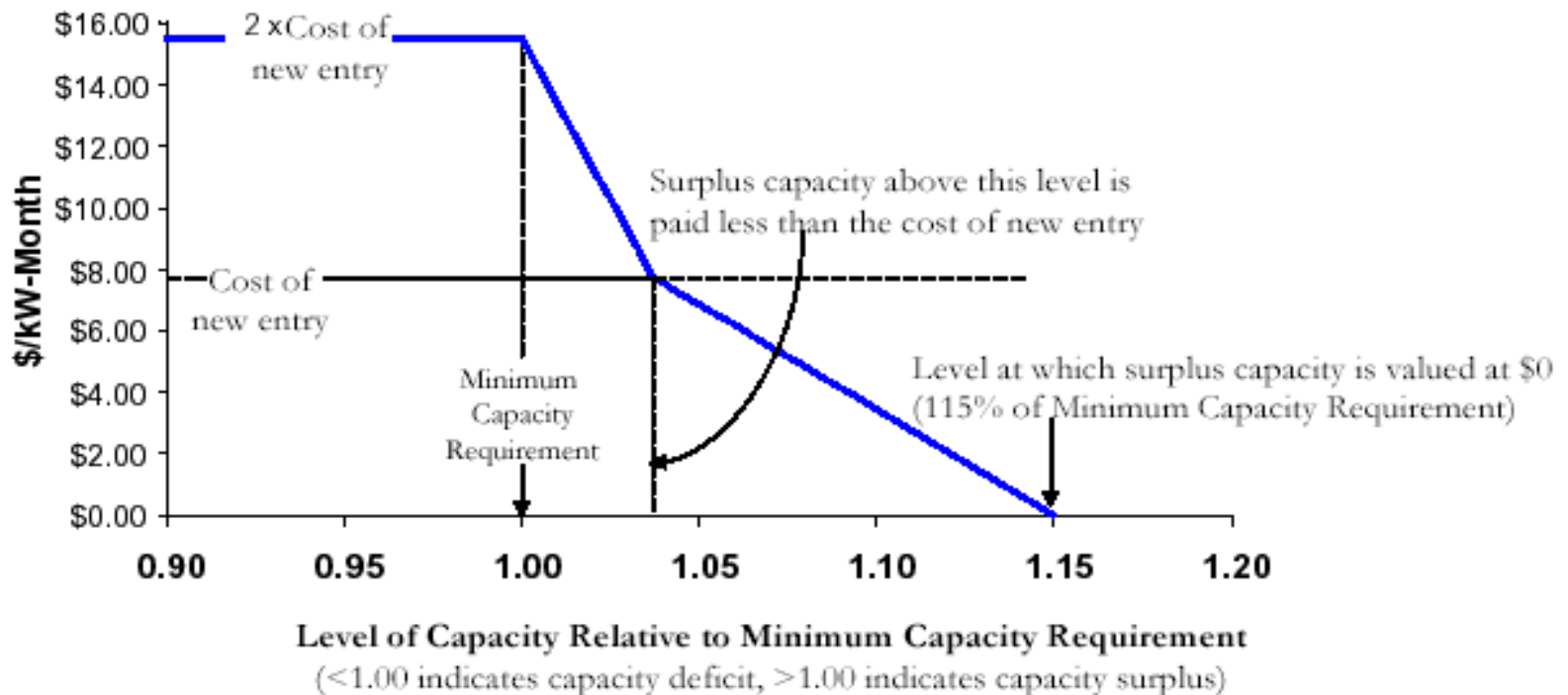
Revised ISO-NE Proposal

August 2004

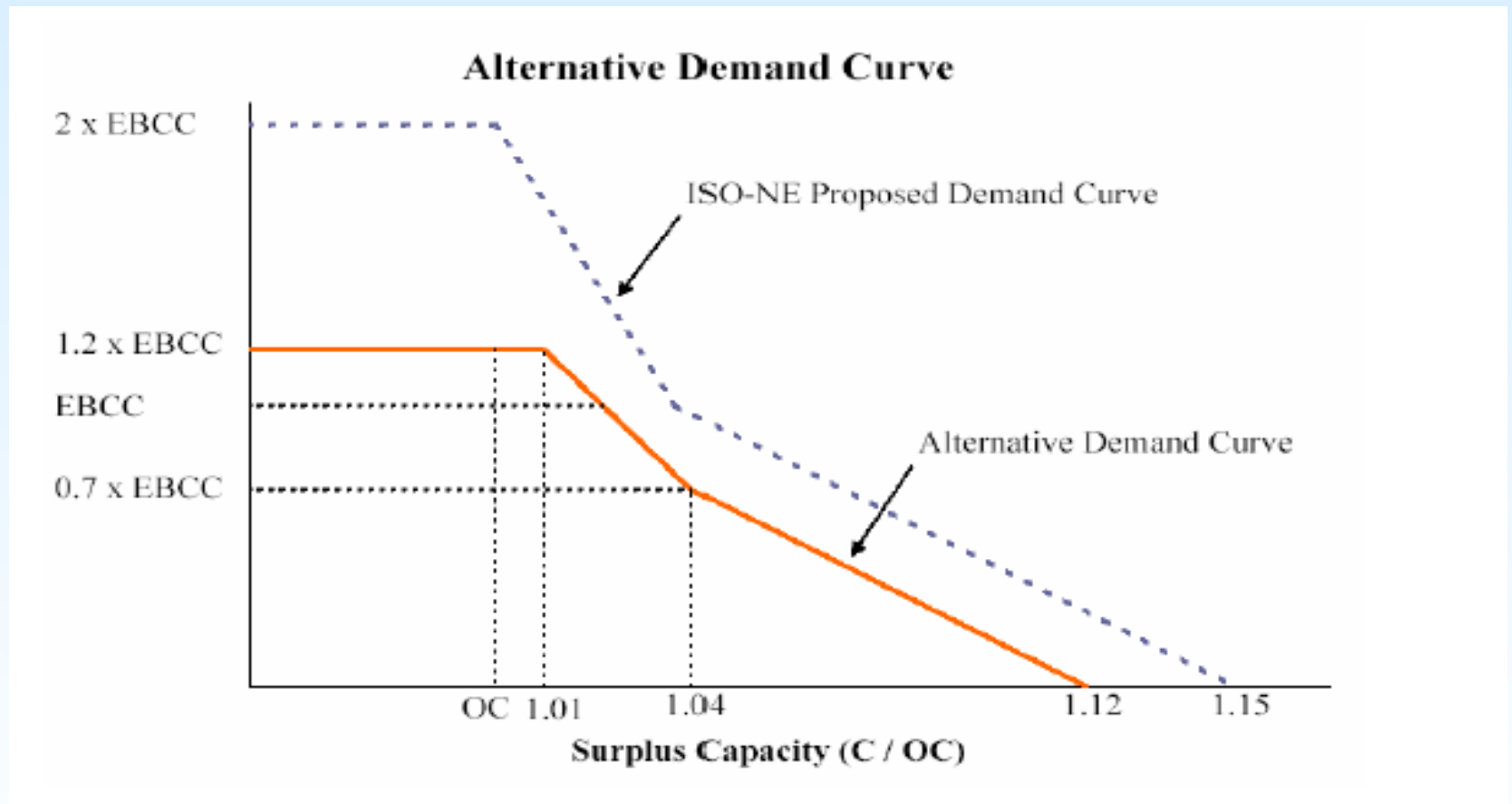
- In June, FERC accepted most of ISO's proposal
 - Endorsed “locational” capacity markets
 - Divided CT into two separate zones
- Maximum capacity value set at twice the cost of new entrant
- Generators must be available during “critical hours” to receive payments
- Capacity payments reduced by
 - revenue from infra-marginal rents
 - “reliability” revenues
- “Reliability” contracts end in 2006
- Market power mitigation measures to be worked out based on input from intervenors
- Clarified allocation of capacity among market participants and rights to transfer capacity

ISO's Most Recent Demand Curve

Have less...pay more. Have more...pay less.



Comparison of ISO-NE and National Grid Alternative Demand Curve Proposal



Estimated Cost Impacts of ISO-NE and National Grid Capacity Proposals

NEMA Annual Cost Impact

NEMA Annual Cost Impact				
Capacity	Surplus above OC	Reserves Level	ISO DC Supply Cost Increase (%)	NGRID DC Supply Cost Increase (%)
5,864	1%	13%	84%	53%
5,922	2%	14%	72%	48%
5,980	3%	15%	59%	44%
6,038	4%	16%	49%	39%
6,096	5%	17%	45%	34%
6,125	5.5%	18%	43%	31%
6,241	7.5%	20%	34%	21%
6,387	10%	22%	23%	10%
6,503	12%	24%	13%	0%

Some Questions to Ask About a Market Intervention



- What exactly is the nature and size of the risk?
- What interventions are possible and which will be the least disruptive?
- Can the intervention be made to work like a market would work?
- Can the intervention be made to halt or fade away as the need for it decreases?
- Can the disruption be offset over time by changes in other parts of the market?