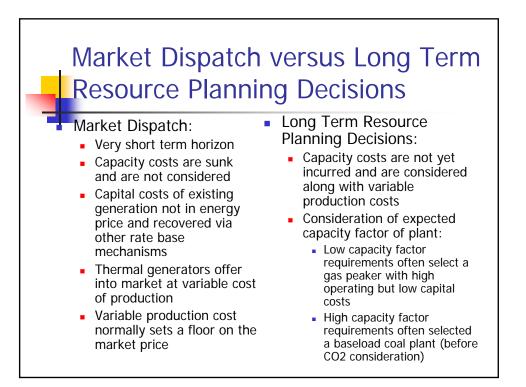


Determining the Market Clearing Price

- Generators electronically offer the potential output of their units into the market based on their variable cost of producing power
- The market operator uses security constrained economic dispatch to stack all the offers from lowest to highest, and selects the offers (or dispatches the generators) as required to meet the current load, while respecting any system limits such as transmission line capacities
- <u>Each</u> generator which runs gets paid the market clearing price for that hour, which is the variable (or marginal) cost of the most expensive unit operating during that hour



Typical Variable Production Costs from Existing Generation

Plant Characteristics	Coal Plant	Combined Cycle Gas Turbine	Simple Cycle Gas Turbine
Typical Coal Heat Rate range	10,000 - 12,000 Btu/KWh		
Typical Combined Cycle Heat Rate range		7,500 - 10,000 Btu/KWh	
Typical Combustion Turbine Heat Rate range			9,000 - 13,500 Btu/KWh
Approximate Non-Fuel O&M (\$/MWh)	\$4.00	\$7.00	\$10.00
Typical Emssions Rates (Tons CO2/MWh)	1.17 - 1.41	0.43 - 0.59	0.52 - 0.82

