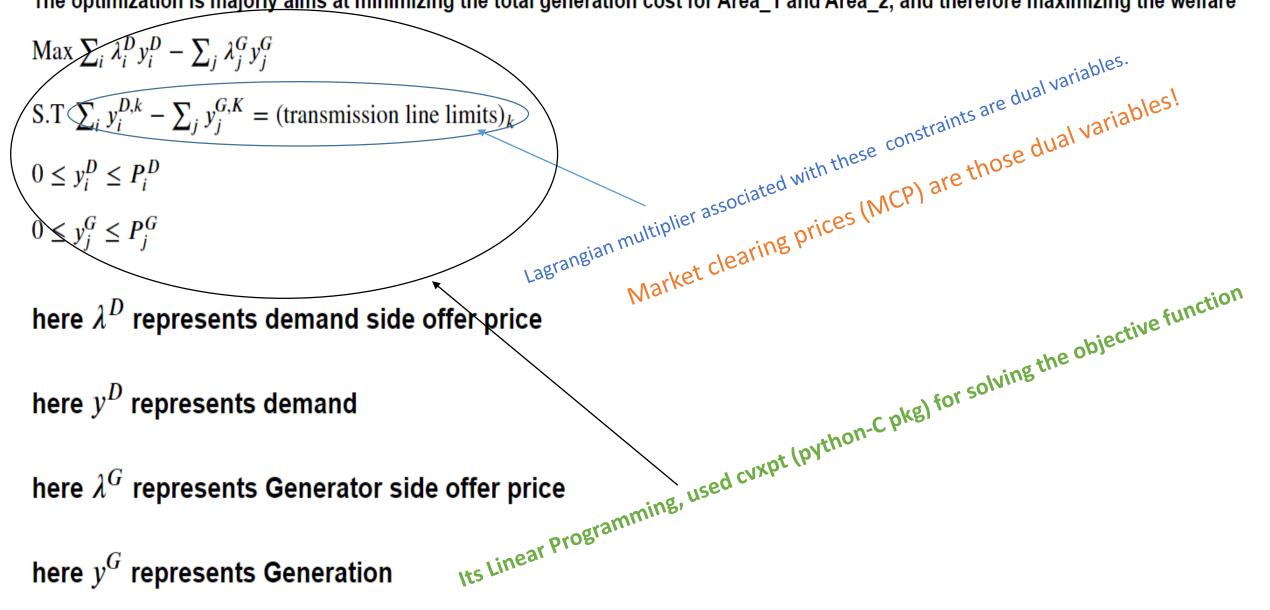
Electricity Market

Social-Welfare optimization By S.N.Ram

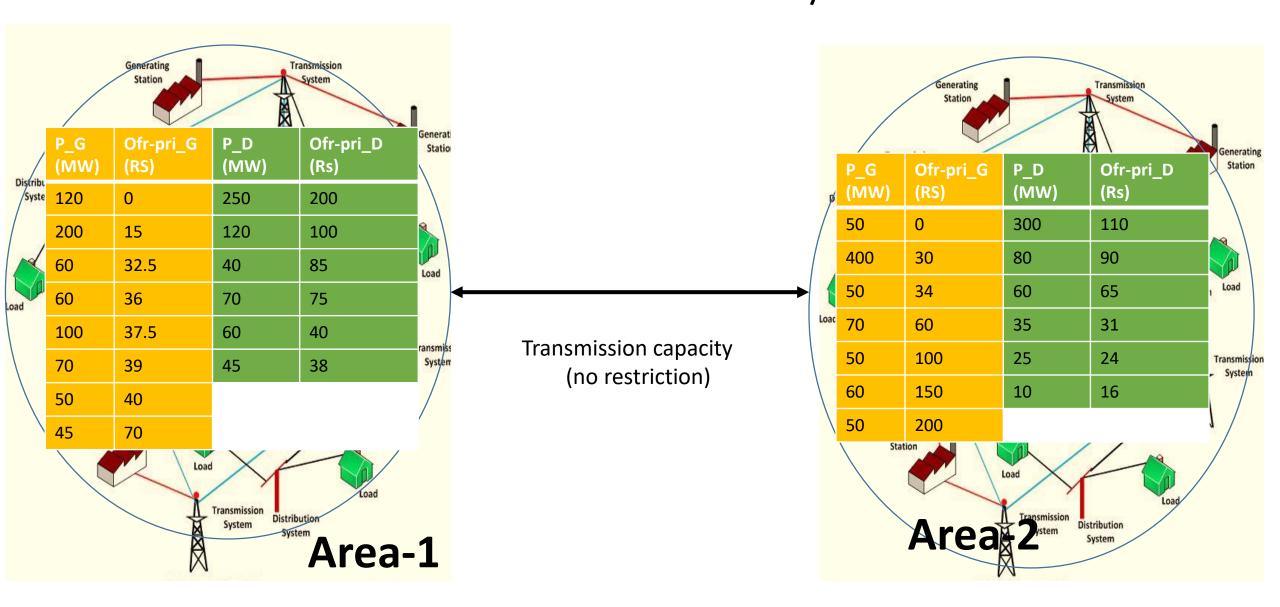
Social Welfare optimization for market clearing

The optimization is majorly aims at minimizing the total generation cost for Area_1 and Area_2, and therefore maximizing the welfare

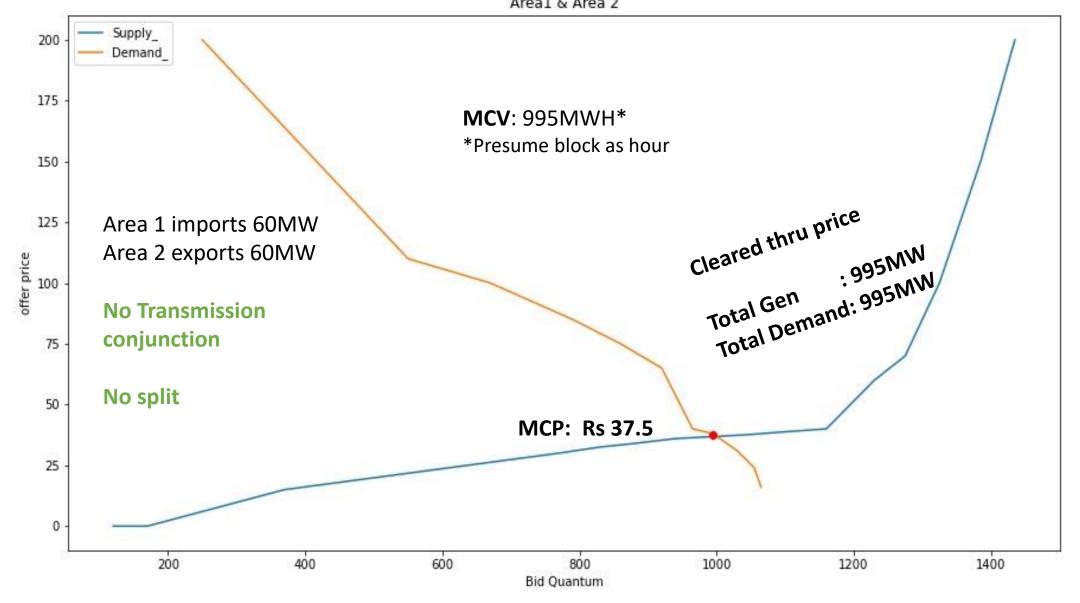


here y^G represents Generation

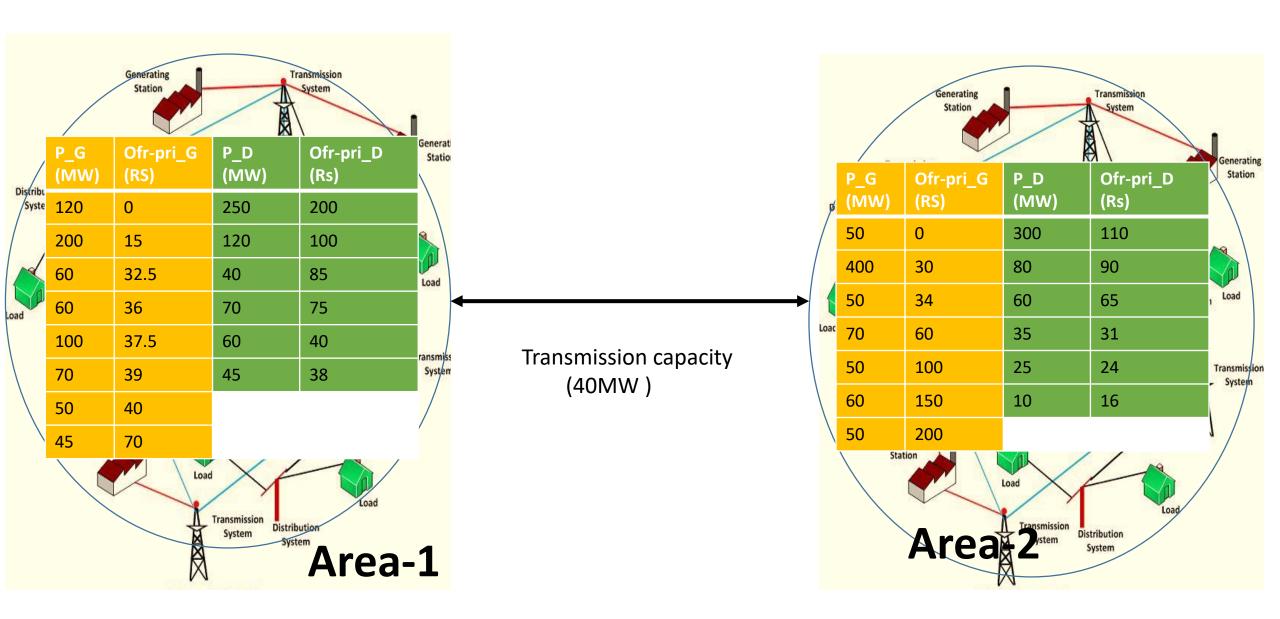
Two area market example -double-sided auction- without any constraints



Areal & Area 2



Two area market with Transmission constraint



Total MCV: 995MWH*(wont change)

*presume block hour

