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# Multi-Area Dynamic Economic Dispatch by Simulated Annealing

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**Abstract**

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**Abstract:**
The Multi Area Dynamic Economic Dispatch (MADED) regulate the optimal
output in a dynamically changed load demand within a multi area system by
considering all the system constraint. Here the basic aim is to schedule the
online generators connected in different area in such away that the load
demand is to meet along with the minimum operational cost in different
operational environment. So, it is a complex optimization which needs to
consider different parameters and design the system in an optimized manner
under such deregulated environment. In this paper we have applied simulated
annealing (SA) method to solve the MADED problem of generating units
considering the different operational constraints such as ramp rate limit,
transmission losses and tie line constraints. Here we have considered a multi
area system with 40 generating units between 4 different areas and the system