A PRODUCTİON MANAGEMENT MODEL WİTH EMPHASİS ON ECONOMİCAL AND ENERGY EFFİCİENT PROCESS SELECTİON

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Abstract - This study aims at constucting an production optimization model that adresses production with energy efficient processes. The trade off between profit per unit on a certain product and the cost of energy required to produce a unit of that product will be considered and a ratio of unit profit to unit energy cost will be considered for each product and each production process. An optimization model like that can be easily expanded and it can easily be solved by a linear programming optimization software such LINDO(Linear Interactive Discrete Optimizer.) The model will include production capacity constraints. The constraints on energy expenditures can also be imposed for a greener and more sustainable environment

Keywords - Production Optimization, Energy Efficient Production