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SETS

Hour(i) = {1, 2, 3… 24}

P = Peak Hours

0P = Off Peak Hours

CONSTANTS

MaxCap = Maximum capacity of the generator (13,400 MWH)

GenCosts = 50 $/MWh

OverCosts = 60,000 $/MWh

Perc = Revenue neutrality (13%)

TDCosts = Transmission and distributions costs $591,606,483

Flat\_rate = 90 $/MWh

DECISION VARIABLES

OBJECTIVE FUNCTION

Minimize generation costs and extra costs per hour. For each hour multiply usage times own generation costs if within capacity plus excess usage times buying extra purchasing costs.

CONTRAINTS

1. Bill neutrality

FlatRate() =\*\*

1. Price Range
2. Profit Restriction

Perc\*(\*\*) (\*\*) – {]+TDCosts}

1. Non negativity decision variables