

```

I = 14; % User Number
T = 24; % Time
N = 1000; % Iteration upper limit
% Generator data
% 1 2 3 columns are constants of cost, first-order and second-order
coefficients, in units of ¥, ¥kW-1, ¥kW-2;
% 4 5 columns are the lower and upper limits of power, in units of kW;
% 6 7 columns are lower and upper climbing limits, in units of kW;
Generator = [
    0.003256    9.4523*10^-3    213*10^-6    0    120 -18 18
    0.002457    8.2245*10^-3    256*10^-6    0    155 -10 18
    0.005365    6.9443*10^-3    312*10^-6    0    137.5  -18 12
    0.004682    9.2512*10^-3    256*10^-6    0    148 -10 10
    0.004256    8.2756*10^-3    298*10^-6    0    141 -18 12
    0.003987    9.2274*10^-3    247*10^-6    0    140 -18 18
    zeros(8,7)
];

% Time of use, ¥/kWh
ElectricityPrice = ([0.60 0.59 0.55 0.56 0.60 0.63 0.68
    0.76 0.80 0.84 0.86 0.85 0.78 0.73 0.69 0.67
    0.65 0.69 0.82 0.83 0.85 0.83 0.78 0.68]);

% 24-hour backup capacity constraint
Su = [400 390 350 360 400 430 480 560 600 640 660 650 580 530 490 470 450
    490 620 630 650 630 580 480];
Sd = [40 39 35 36 40 43 48 56 60 64 66 65 58 53 49 47 45 49
    62 63 65 63 58 48];

% Load demand, 14 * 24, in units of kW
d = [5.89 6.32 7.16 8 8.429.26 9.68 10.1 10.95 11.79
    12.21 12.63 11.79 10.95 10.1 8.84 8.42 9.26 10.11
    11.78 10.95 9.26 7.53 6.73
    6.57 6.48 7.93 8.48 8.72 9.29 9.72 10.89 11.45
    12.14 12.90 13.54 12.04 11.40 10.23 9.05 8.90 9.65
    10.53 12.74 11.83 10.00 7.61 7.35
    6.49 7.19 7.94 8.19 8.56 9.98 10.65 10.61 11.57
    11.91 12.98 13.08 12.62 11.71 10.81 9.19 9.10 9.48
    10.59 12.42 11.43 9.91 8.47 7.67
    6.48 6.35 7.91 8.97 8.65 9.35 10.34 10.57 11.17
    12.75 12.27 13.52 12.49 11.20 10.53 8.93 8.52 9.53
    11.06 11.85 11.19 10.06 7.95 7.15

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6.84	6.87	7.25	8.59	9.18	10.14	10.35	10.78	11.71
12.67	12.69	13.28	12.26	11.46	10.66	9.05	8.70	10.03
10.28	11.88	11.26	9.83	8.31	7.46			
6.50	6.69	7.89	8.81	9.24	9.38	10.21	10.96	11.02
12.54	12.88	13.37	11.95	11.86	10.58	8.89	8.82	10.13
10.15	11.88	11.08	9.34	7.96	7.38			
6.81	7.13	7.83	8.35	8.48	9.30	10.43	11.02	11.10
12.23	12.34	13.57	11.92	11.66	10.47	9.76	9.40	9.95
10.64	11.79	11.04	9.34	7.92	6.87			
6.73	6.50	8.01	8.09	9.32	9.60	10.38	11.07	11.90
12.50	12.34	13.25	11.89	11.91	10.38	9.58	8.89	10.06
10.29	11.90	11.08	10.06	7.82	7.27			
6.66	6.95	7.38	8.61	8.92	9.67	10.54	10.97	11.17
11.97	12.67	13.59	12.60	11.60	10.69	9.67	8.90	9.97
10.16	12.01	11.87	9.98	7.86	6.77			
6.41	6.42	7.53	8.69	8.75	10.06	10.56	10.86	11.83
12.52	12.49	13.23	12.08	11.62	10.69	9.01	8.76	9.86
10.82	12.18	11.42	9.61	8.43	7.14			
6.31	6.96	7.26	8.93	8.93	9.67	9.77	10.53	11.63
12.17	12.83	13.46	12.34	11.35	10.69	9.44	8.61	10.00
10.99	11.91	11.40	10.17	7.81	7.15			
6.80	6.63	7.34	8.27	8.68	9.46	10.30	10.44	11.21
12.33	13.08	13.37	12.20	11.23	10.67	9.08	9.05	10.01
10.80	11.91	11.90	10.18	7.54	7.43			
6.33	6.79	7.58	8.94	9.09	10.13	9.85	11.04	11.09
12.58	12.46	13.33	12.33	10.96	10.41	9.63	8.60	9.84
10.54	11.95	11.31	9.82	7.91	7.28			
6.15	6.70	8.05	8.69	9.35	10.11	9.90	10.35	11.26
12.10	12.44	13.56	12.59	11.69	10.30	9.48	9.10	10.14
10.50	12.20	11.02	9.91	8.52	6.87			

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];

% Transaction volume limit for 14 users, in units of kWh
TransLimit = [23    21    20    27    22    22    26    25    25    24    24    26    25    21];

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