

Load demand: (MW)

[336,280,260,240,270,300,320,428,480,466,448,530.52,511.6,520,514,536,500,460,480,510,530,490,520,424]

Time of use price: (k\$/MWh)

[0.3089;0.3089;0.3089;0.3089;0.3089;0.3089;0.3089;...
 1.0447;1.0447;1.0447;1.0447;...
 0.6268;0.6268;0.6268;0.6268;0.6268;...
 1.0447;1.0447;1.0447;1.0447;...
 0.3089;0.3089;0.3089]

Maximum power of wind farms: (MW)

Group1:	43.5000	44.5000	42.5000	45.0000
Group2:	45.5000	40.0000	40.0000	43.0000
Group3:	45.0000	50.0000	41.0000	42.5000

 c and κ are scale and shape factors of the Weibull PDF

c
 =[18.040,15.070,15.400,16.040,16.13,13.79,14.76,13.53,13.01,12.160,14.44,13.91,12.76,13.52,14.48,14.47,12.62,13.95,14.59,14.26,15.89,17.64,18.55,15.26;
 16.13,13.79,14.76,13.53,13.01,12.160,14.44,18.040,15.070,15.4,13.95,14.59,14.26,15.89,17.64,18.55,15.26,16.040,13.91,12.76,13.52,14.48,14.47,12.62;
 15.26,16.040,13.91,12.76,13.52,14.48,14.47,13.53,13.01,12.160,14.44,18.040,15.070,15.4,13.95,14.59,14.26,15.89,17.64,16.13,13.79,14.76,18.55,12.62;
 13.53,13.01,12.160,14.44,14.47,15.4,13.95,14.59,14.26,15.89,17.64,16.13,13.79,14.76,18.55,12.62,18.040,15.070,15.26,16.040,13.91,12.76,13.52,14.48;
 18.040,15.070,15.400,16.040,16.13,13.79,14.76,13.53,13.01,12.160,14.44,13.91,12.76,13.52,14.48,14.47,12.62,13.95,14.59,14.26,15.89,17.64,18.55,15.26;
 16.13,13.79,14.76,13.53,13.01,12.160,14.44,18.040,15.070,15.4,13.95,14.59,14.26,15.89,17.64,18.55,15.26,16.040,13.91,12.76,13.52,14.48,14.47,12.62;
 15.26,16.040,13.91,12.76,13.52,14.48,14.47,13.53,13.01,12.160,14.44,18.040,15.070,15.4,13.95,14.59,14.26,15.89,17.64,16.13,13.79,14.76,18.55,12.62;
 13.53,13.01,12.160,14.44,14.47,15.4,13.95,14.59,14.26,15.89,17.64,16.13,13.79,14.76,18.55,12.62,18.040,15.070,15.26,16.040,13.91,12.76,13.52,14.48;
 18.040,15.070,15.400,16.040,16.13,13.79,14.76,13.53,13.01,12.160,14.44,13.91,12.76,13.52,14.48,14.47,12.62,13.95,14.59,14.26,15.89,17.64,18.55,15.26;

16.13,13.79,14.76,13.53,13.01,12.160,14.44,18.040,15.070,15.4,13.95,14.59,14.26,15.89,17.64,18.55,15.26,16.040,13.91,12.76,13.52,14.48,14.47,12.62;

15.26,16.040,13.91,12.76,13.52,14.48,14.47,13.53,13.01,12.160,14.44,18.040,15.070,15.4,13.95,14.59,14.26,15.89,17.64,16.13,13.79,14.76,18.55,12.62;

13.53,13.01,12.160,14.44,14.47,15.4,13.95,14.59,14.26,15.89,17.64,16.13,13.79,14.76,18.55,12.62,18.040,15.070,15.26,16.040,13.91,12.76,13.52,14.48
];

$\kappa=$

[9.54,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42,8.33,8.68,9.57,8.88,9.32,9.41,9.31,9.54,9.50,9.56,9.50,9.62,9.52,9.31;

9.59,9.43,9.42,9.31,9.54,9.50,9.56,9.50,9.36,9.62,9.52,9.31,8.33,8.68,9.57,8.88,9.32,9.41,9.54,9.50,9.45,9.59,9.58,9.51;

9.54,9.54,9.50,9.56,9.50,9.62,9.52,9.31,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42,8.33,8.68,9.57,8.88,9.32,9.41,9.31;

8.33,8.68,9.57,8.88,9.32,9.41,9.31,9.54,9.54,9.50,9.56,9.50,9.62,9.52,9.31,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42;

9.54,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42,8.33,8.68,9.57,8.88,9.32,9.41,9.31,9.54,9.50,9.56,9.50,9.62,9.52,9.31;

9.59,9.43,9.42,9.31,9.54,9.50,9.56,9.50,9.36,9.62,9.52,9.31,8.33,8.68,9.57,8.88,9.32,9.41,9.54,9.50,9.45,9.59,9.58,9.51;

9.54,9.54,9.50,9.56,9.50,9.62,9.52,9.31,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42,8.33,8.68,9.57,8.88,9.32,9.41,9.31;

8.33,8.68,9.57,8.88,9.32,9.41,9.31,9.54,9.54,9.50,9.56,9.50,9.62,9.52,9.31,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42;

9.54,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42,8.33,8.68,9.57,8.88,9.32,9.41,9.31,9.54,9.50,9.56,9.50,9.62,9.52,9.31;

9.59,9.43,9.42,9.31,9.54,9.50,9.56,9.50,9.36,9.62,9.52,9.31,8.33,8.68,9.57,8.88,9.32,9.41,9.54,9.50,9.45,9.59,9.58,9.51;

9.54,9.54,9.50,9.56,9.50,9.62,9.52,9.31,9.50,9.45,9.59,9.58,9.51,9.36,9.59,9.43,9.42,8.33,8.68,9.57,8.88,9.32,9.41,9.31;

8.33,8.68,9.57,8.88,9.32,9.41,9.31,9.54,9.54,9.50,9.56,9.50,9.62,9.52,9.31,9.50,9.45,9.59,9.58,9.5
1,9.36,9.59,9.43,9.42
];