

Table 1: Mean and standard deviation of the estimated parameters for Weibull distribution over 10 runs.

Hour	Downward			Upward			Energy		
	$\kappa$ (sd)	$\gamma$ (sd)	nll (sd)	$\kappa$ (sd)	$\gamma$ (sd)	nll (sd)	$\kappa$ (sd)	$\gamma$ (sd)	nll (sd)
1	0.0027 (0.0035)	1.083 (0.208)	156.93 (3.45)	0.0099 (0.0083)	1.09 (0.175)	120.62 (3.03)	0.0028 (0.0024)	1.039 (0.185)	154.58 (4.27)
2	0.0045 (0.0037)	0.94 (0.159)	159.13 (3.84)	0.0085 (0.0078)	1.158 (0.129)	114.87 (2.6)	0.0023 (0.0026)	1.029 (0.123)	160.03 (3.53)
3	0.002 (0.0022)	1.039 (0.146)	163.95 (3.4)	0.0216 (0.0096)	1.069 (0.145)	102.71 (3.19)	0.0023 (0.0018)	0.993 (0.13)	164.04 (3.04)
4	0.0018 (0.0012)	1.009 (0.181)	169.23 (3.2)	0.0688 (0.0271)	0.973 (0.117)	84.4 (3.38)	0.0015 (0.0011)	1.036 (0.138)	166.66 (2.44)
5	0.0043 (0.0047)	0.948 (0.226)	170.19 (3.71)	0.0977 (0.0585)	1.032 (0.148)	73.8 (4.1)	0.0023 (0.0035)	1.054 (0.17)	163.87 (3.22)
6	0.0044 (0.0071)	1.024 (0.217)	162.03 (4.5)	0.1547 (0.0596)	0.994 (0.108)	64.48 (4.76)	0.0053 (0.0096)	1.12 (0.272)	152.78 (4.45)
7	0.0036 (0.0057)	1.099 (0.229)	153.49 (4.15)	0.0819 (0.0266)	1.226 (0.083)	65.66 (3.33)	0.0032 (0.0041)	1.158 (0.239)	145.69 (3.03)
8	0.005 (0.0049)	1.005 (0.152)	146.8 (3.17)	0.0305 (0.0138)	1.51 (0.164)	69.88 (2.03)	0.0053 (0.0042)	1.074 (0.203)	138.87 (2.9)
9	0.0034 (0.0023)	1.11 (0.165)	140.47 (2.51)	0.0675 (0.0238)	1.245 (0.18)	68.79 (2.88)	0.0081 (0.0048)	1.011 (0.14)	131.58 (2.8)
10	0.0075 (0.0078)	1.048 (0.202)	135.38 (2.77)	0.0469 (0.0332)	1.295 (0.29)	76.56 (3.92)	0.0107 (0.007)	0.997 (0.129)	126.84 (3.17)
11	0.0088 (0.01)	1.075 (0.232)	131.77 (3.34)	0.0362 (0.0138)	1.218 (0.088)	80.9 (2.27)	0.0148 (0.0076)	0.961 (0.066)	120.94 (4.4)
12	0.0109 (0.0099)	1.029 (0.181)	127.06 (3.3)	0.0418 (0.0236)	1.287 (0.176)	76.3 (3.36)	0.0079 (0.0042)	1.155 (0.12)	115.88 (2.75)
13	0.0085 (0.004)	1.033 (0.104)	126.05 (1.95)	0.0382 (0.0204)	1.195 (0.185)	83.27 (2.72)	0.005 (0.0044)	1.31 (0.241)	116.29 (2.34)
14	0.0101 (0.0084)	1.069 (0.175)	123.08 (3.24)	0.0307 (0.0181)	1.224 (0.158)	85.16 (2.29)	0.0055 (0.0032)	1.229 (0.144)	116.63 (2.22)
15	0.013 (0.008)	0.997 (0.101)	121.51 (3.86)	0.0436 (0.0495)	1.319 (0.416)	83.12 (4.83)	0.0083 (0.0067)	1.158 (0.15)	116.46 (2.53)
16	0.0097 (0.0042)	1.059 (0.081)	119.33 (2.37)	0.0531 (0.0165)	1.002 (0.076)	87.33 (2.67)	0.007 (0.004)	1.177 (0.185)	117.0 (3.13)
17	0.0055 (0.0072)	1.235 (0.291)	128.84 (2.47)	0.0652 (0.0213)	0.925 (0.111)	88.84 (2.09)	0.0099 (0.009)	1.033 (0.146)	126.77 (3.92)
18	0.0085 (0.0086)	1.039 (0.182)	132.35 (4.88)	0.0657 (0.0266)	0.916 (0.117)	89.8 (2.89)	0.0087 (0.0081)	1.0 (0.133)	131.78 (3.26)
19	0.0033 (0.002)	1.122 (0.095)	135.82 (2.79)	0.0409 (0.0281)	1.069 (0.182)	91.14 (2.6)	0.0046 (0.0027)	1.075 (0.104)	134.69 (2.15)
20	0.0054 (0.0046)	1.054 (0.163)	137.79 (2.81)	0.0164 (0.0207)	1.277 (0.193)	96.4 (1.47)	0.0042 (0.0035)	1.134 (0.224)	136.49 (2.02)
21	0.0026 (0.0016)	1.126 (0.124)	141.06 (2.34)	0.0221 (0.0135)	1.099 (0.136)	100.5 (2.35)	0.0031 (0.0021)	1.104 (0.139)	141.14 (2.15)
22	0.0024 (0.0031)	1.194 (0.215)	143.33 (2.27)	0.027 (0.0085)	0.988 (0.077)	103.46 (1.97)	0.0031 (0.0034)	1.116 (0.18)	144.32 (2.21)
23	0.0034 (0.0037)	1.095 (0.173)	145.89 (4.06)	0.0204 (0.0106)	1.003 (0.119)	110.02 (2.37)	0.0032 (0.003)	1.063 (0.134)	146.38 (3.3)
24	0.0031 (0.0018)	1.005 (0.099)	151.83 (2.26)	0.0166 (0.0105)	0.975 (0.152)	119.47 (2.25)	0.0042 (0.002)	0.955 (0.088)	151.64 (1.93)