

Outage Rate in Japan

The forced outage rate in Japanese thermal power plants are tabulated in the following table. The calculation of reserve capacity was made with this table as the reference. Forced Outage Rate of Thermal Power Plant in Japan (1955 - 1977)

第二一21表 昭和30年度~52年度の火力停止形(平日)の推移

| | | | | | | . | · | | 1 | | l e | ⁻ | E. | Tente | 1 "8 | | 19561) | | | 6 | | ¢ | · | | | | | | | | E | 4 | | · · | <u> </u> |
|---|--------------|--|--------------|--|-----------|----------|-----------------|----------|---|---------|---------------|--------------|----------------|----------|------------------|-----------|-----------------|---------------|-----------------|-------------|---------------|------------------|---------------|--------------|--------------|-----------------|------------------------------|--------------------|---------------|-----------------|------------------|---------------|------------|---|------------|
| • | | | | | R R | 5 | | | 2 Martin | ן בּ | <u> </u> | " | E | Ē | | | | | E | | | 5 | - | \vdash | | | | | | 1 | 5 | | * | ខ្មុំន | |
| | Qnet CT#1 | | 1700 | 1 3961 | 19561 | 18 | 1955 H#4 1 1956 | 1956 | 1959 1960 | · · · · | 21 | 1961 | | | | 44961 | 1965 | 1996 | 2 <u>2</u> 8 | 5 5 | 8 | | | for 1 | 67 TL61 | | | 1 - 1 | 61 61 | 44.61 | | 441 9 | i | 1 | |
| Opreating days (A) | MMS | ar name ar name | 5 IN | 61472 | 1 01716'5 | 1.655.0 | S. S. R | 0.00.11 | 11.00.01 2.10.10 0.00.11 2.00.00 11 0.10.19 | - | 1. 1.02.10 | 1 0.67.61 | IA. ICL.O | 0°00'N | 0'EL'U | 12,141,5 | 11,2257,11 | 121 2.711.11 | 12,610.5 | 13° 41' 13' | 10.151.1 | 14 IGN.5 13. | 13.42.5 41. | 1,200.1 e.e | 6.67.0 7.A | 7.MM.0 8,1 | B.124.5 34.1 | 1.0.5 | 0.00 | 0 + C.Q.'* | 5724314 5140314 | | Ŷ | 0 X. W. | |
| Forced outage days (B) | 3 | | 5103 -5 E | 0.40 | 510 · | \$0.0 | . | 1.00 | ŝ | с. Ш | 020 | Ê. | 5°04 | °iA | - 2 1 | Ř. | Â | Â | Ĩ | | ž | 14 | S, Qa | i. | | 0'41Z | ŝ | | 0.04 | | 112.5 | 13.5 | · | | िर |
| Forced outage rate (A)/((A)+(B)) | Ϋ́. | 10 | 8 | P'4 | 1.1 | | 5.2 | 4°C | 11 | C'7 | ΰC | 1,6 | • | 2.4 | • | • | 52 | 27 | (°) | 2.1 | 9°1 | 1.2 | 0"1 | £"1 | PI | 2,2 | 3 | <u>e</u> | ~2 | े . | 1 | - | <u> </u> | | 1 |
| Opreating days (A) | жжу | | 5 S | : | , | , | 1 | 0.4 | 1,046.5 | 2,194.5 | 1992 - | 0"641") | 4. <i>m.</i> s | 1,019.9 | 1 | 11, 2015 | 21 d'141 [] | 12:20.5 | 12,499,01 | "al 0%E"6 | 14,121,0 | ħ | 179 J. 128-12 | 4,20% Z.K | 52 51272 | 7, 01.0 | 2.77.5 | 6 , 71, 71, | 74,727.0 19,5 | , 113.5 B.C | 18.04.5 N.M.O | 01A.W. 00 | | 1.00 M 1.00 | 1 |
| Forced outage days (B) | E | 10. 10 19. 10 19. 10 | ક્રોસ સંદ | • | ł | , | , | Q'1 | ÷ | 0.8 | Y N | ¥7991 | ŝ | 74.5 | 0.43 | ŝ | 0'IÆ | ž | - 0°5X | | 0.142 | S.M. | 719.0 | | 5°C | 5 | 24°2 1' | 1,07.0 | | 5°75 | - R | 0,441 | | 5°10'S | <u>г е</u> |
| Forced outage rate (A)/((A)+(B)) | MHYK | **** | 2 | . • | , | | | . 1.ê | P.6 | 2.4 | 3.6 | 3.9 | 3.6 | C.C | 3.0 | | 12 | CL . | 2.n | 2.4 | | . | 3 | s.) | e, I | 2.8 | در | 2 | 12 | 3 | 82 | | ļ | | <u> </u> |
| Opreating days (A) | MITAS' | Mar is the | ning 2 | • | | | • | 1 | 1 | 1 | 1 | 1 | 1 | • | 1. | en.s | 1.20.5 | 1'00'2 1'1 | 9 910wr2 | 1C 0'46'9 | 17 A.MAR (C | ч Т. Т. Т. Т. | 91 - 14° | 1.201 | 11 0'04'2 | 10 S-01-11 | 13, - 7,1 <u>1</u> 2, | 5.044,42 G.140,52 | | 2.41 3.42.42 | 0'109'21 5'91'2' | 5°442°47 (1°1 | | 10.100 | |
| Forced outage days (B) | Ê | 11.45.47 A | 5Å10 | , | • | 1 | • | 4 - | | , | ł | 1 | 1 | i | | ÷. | 52 | 5 | <i>u</i> - | 6 12 | 4.4 | | ш., | N.S. 1 | 10°0 | 341.5 N.C | 7 45 1. | 1.145.0 | • | ŝ | R K | 5 K. | | | |
| Forced outage rate (A) / (A) + (B)) | 1,000MW | 49+17 49 49 41 44 | 2 | | | • | | | • | • | , | • | • | | - 1 | 1 | •*• | 2.4 | 2.4 | 9°C | 2.1 | 1.5 | 17 | 67 | ce . | 11 | ę. | 3 | 14 | 54 | 2 | - | | | |
| Opreating days (1.) | MMX | 11 (11 (11 (11 (11 (11 (11 (11 (11 (11 | ца. С | זיומיול עישרנו טיאטינו זישרע טיאטיוו טיאאיט זיומינ | 11 O'CM'4 | 0'14'1 | 5 | 13.194.0 | 1, MZ, 71 | | 1 5186.5 | 2 0"14" 91 | 2 592.2 | 9 0'IK'N | 2.76.55 1.101.00 | 5.5.5 | 1. Ye 0 7 | CH 5 147 62 | 211 0"44."22 | | 36, 24, 0 JR, | 34,756.5 | vit 0'2N 2 | 10-11221-111 | 2"10 5"161"0 | 1,764.5 6,104.5 | 2 | 10 202 | 1. A. A. A. | 2. al. 4. 4. 4. | 1.005 | 5.8%ard 2.0 | 5 ID. 4. C | Č, | r |
| Forced outage days (B) | Total | | si 10 | 2 | 175 | 0,922 | 5'05'1 9'05 | 1900 - L | 0'\+ | 016 | 5'64'1 | 5.1 | 0.11 | Ĵ. | 2.42.1 | 5.94 | 0.07 | 2.11 | a15.0 7 | 2.780.5 | Q. 123 | . en | 'i ():55 | 2 | 11 SNG | 111 558211 | 1.154.5 3.1 | 3.27.5 | 11.5005 | 5 19 5 | 2 | 29.5 | 0'W'Y | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | |
| Forced outage rate (A)/((A)+(B)) | MHRAT'I | 8-4-4 8-4-4 1 | 2 | b.4 | 27 | 2 | 2 | | vič | 2 | ē | 5.5 | ~ | 2 | 77 | 4 | 2 | ž | • | 7 | 2 | <u>*</u> | 2 | 2 | 2,0 | 97 | 12 | 12 | 2 | 2.0 | | | | | r <u>s</u> |
| | 1 | | 8 | Source:Explanation of | A . | ្រុំ | ana | | 0 g | | Methods | ods | Ч | | Electric | - 0 77 | | Power | D D | Demand | | Ц Х Х | Forecast | and | ୍ ମ ପ | E E E | Electric | | Power | |] . | | | ł | 1 |

* Adopted Forced Outage Rate for Decision of Unit Capacity of This Project Supply Program Employed in the Japan Electric Power Survey Report, November, 1982, Japan Electric Power Research Committee

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