

# Klimadaten für Energietechnik

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## Klimadaten für die Energietechnik

| Klimadaten für die Energietechnik<br>mitgeteilt von der Schweizerischen<br>Meteorologischen Anstalt |                           |                  |  | O K T O B E R 1985 |   |               |                              |  |               |                  | N O V E M B E R 1985 |             |  |                    |   |               |                              |  |               |                  |                   |           |
|---|---------------------------|------------------|--|--------------------|---|---------------|------------------------------|--|---------------|------------------|----------------------|-------------|--|--------------------|---|---------------|------------------------------|--|---------------|------------------|-------------------|-----------|
| Klimaregion<br><i>Station</i>   | Höhe / m.ü.M.             | Lage             | Luft-<br>temperatur<br>T <sub>fm</sub> |                    | Heizgrad-<br>tage<br>HGT <sub>30/12</sub> |               | Heiztage<br>HT <sub>12</sub> | Global-<br>strahlung<br>G <sub>H</sub> |               | Sonne<br>SS      |                      | Wind<br>v   | Luft-<br>temperatur<br>T <sub>fm</sub> |                    | Heizgrad-<br>tage<br>HGT <sub>30/12</sub> |               | Heiztage<br>HT <sub>12</sub> | Global-<br>strahlung<br>G <sub>H</sub> |               | Sonne<br>SS      |                   | Wind<br>v |
|   |                           |                  | Mittel<br>0,1°C                        | Summe<br>°C · Tage | in %<br>der Norm                          | Summe<br>Tage | Summe<br>MJ/m <sup>2</sup>   | in %<br>der Norm                       | Summe<br>Std. | in %<br>der Norm | Mittel<br>0,1 m/s    |             | Mittel<br>0,1°C                        | Summe<br>°C · Tage | in %<br>der Norm                          | Summe<br>Tage | Summe<br>MJ/m <sup>2</sup>   | in %<br>der Norm                       | Summe<br>Std. | in %<br>der Norm | Mittel<br>0,1 m/s |           |
| ①   | BASEL-BINNINGEN           | 316 A            | 101                                    | 270                | -   | 21            | 282                          | -                                      | 172           | 165              | 21                   | 21          | 522                                    | -                  | 28  | 97            | -                            | 38                                     | 64            | 27               |                   |           |
|   | FAHY                      | 596 F            | 93                                     | 304                | -   | 23            | 291                          | -                                      | 179           | 184              | 27                   | 9           | 561                                    | -                  | 28  | 98            | -                            | 32                                     | 46            | 31               |                   |           |
|   | RUENENBERG                | 610 A            | 95                                     | 299                | -   | 23            | 291                          | -                                      | 181           | 169              | 23                   | 10          | 567                                    | -                  | 29  | 102           | -                            | 37                                     | 57            | 25               |                   |           |
| ②   | CHASSERAL                 | 1599 G           | 69                                     | 377                | -   | 27            | 398                          | -                                      | 245           | 198              | 84                   | -44         | 731                                    | -                  | 30  | 152           | -                            | 68                                     | 77            | 108              |                   |           |
|   | LA CHAUX DE FONDS         | 1018 M           | 81                                     | 347                | -   | 26            | 326                          | -                                      | 219           | 181              | 22                   | -17         | 644                                    | -                  | 29  | 123           | -                            | 59                                     | 72            | 29               |                   |           |
|   | LA DÔLE                   | 1670 G           | 74                                     | 348                | -   | 25            | 381                          | -                                      | 251           | 188              | 77                   | -40         | 719                                    | -                  | 30  | 154           | -                            | 75                                     | 77            | 78               |                   |           |
|   | LA FRETAZ                 | 1202 S           | 84                                     | 328                | -   | 25            | 322                          | -                                      | 214           | 176              | 20                   | -22         | 667                                    | -                  | 30  | 107           | -                            | 41                                     | 44            | 20               |                   |           |
| ③   | GUËTTINGEN                | 440 A            | 87                                     | 313                | -   | 24            | 212                          | -                                      | 116           | 132              | 18                   | 8           | 575                                    | -                  | 30  | 93            | -                            | 34                                     | 76            | 27               |                   |           |
|   | KLOTEN                    | 436 F            | 93                                     | 299                | -   | 23            | 227                          | -                                      | 126           | 154              | 17                   | 13          | 562                                    | -                  | 30  | 94            | -                            | 32                                     | 75            | 25               |                   |           |
|   | ST. GALLEN                | 779 T            | 84                                     | 334                | -   | 24            | 251                          | -                                      | 129           | 133              | 13                   | 1           | 590                                    | -                  | 29  | 105           | -                            | 30                                     | 60            | 20               |                   |           |
|   | SCHAFFHAUSEN              | 437 E            | 89                                     | 314                | -   | 24            | 257                          | -                                      | 125           | 142              | 28                   | 9           | 572                                    | -                  | 30  | 101           | -                            | 36                                     | 87            | 35               |                   |           |
|   | TAENIKON                  | 536 F            | 83                                     | 320                | -   | 23            | 228                          | -                                      | 116           | 124              | 14                   | 8           | 568                                    | -                  | 29  | 100           | -                            | 30                                     | 67            | 21               |                   |           |
|   | WÄEDENSWIL<br>ZUERICH SMA | 463 E<br>556 S   | 101<br>95                              | 275<br>289         | -   | 23<br>22      | 233<br>235                   | -                                      | 111<br>133    | 127<br>132       | 13<br>16             | 18<br>12    | 546<br>557                             | -                  | 30<br>29                                  | 99<br>89      | -                            | 32<br>33                               | 71<br>62      | 21<br>23         |                   |           |
| ④   | BUCHS-SUHR                | 387 F            | 95                                     | 282                | -   | 22            | 218                          | -                                      | 122           | 147              | 10                   | 16          | 551                                    | -                  | 30  | 83            | -                            | 29                                     | 78            | 14               |                   |           |
|   | BERN-LIEBEFELD            | 565 F            | 93                                     | 292                | -   | 23            | 271                          | -                                      | 160           | 152              | 14                   | 13          | 556                                    | -                  | 29  | 103           | -                            | 38                                     | 72            | 19               |                   |           |
|   | LUZERN                    | 456 F            | 99                                     | 270                | -   | 22            | 217                          | -                                      | 94            | 110              | 11                   | 15          | 554                                    | -                  | 30  | 102           | -                            | 35                                     | 87            | 13               |                   |           |
|   | WYNAU                     | 422 M            | 91                                     | 296                | -   | 23            | 241                          | -                                      | 130           | 146              | 19                   | 15          | 555                                    | -                  | 30  | 97            | -                            | 34                                     | 92            | 23               |                   |           |
| ⑤   | CHANGINS                  | 430 A            | 115                                    | 191                | -   | 16            | 309                          | -                                      | 189           | 160              | 25                   | 30          | 494                                    | -                  | 28  | 112           | -                            | 54                                     | 90            | 29               |                   |           |
|   | GENÈVE-COINTRIN           | 420 F            | 112                                    | 219                | -   | 19            | 303                          | -                                      | 171           | 139              | 19                   | 29          | 499                                    | -                  | 28  | 102           | -                            | 42                                     | 74            | 23               |                   |           |
|   | NEUCHÂTEL                 | 485 A            | 113                                    | 201                | -   | 16            | 273                          | -                                      | 160           | 148              | 22                   | 28          | 508                                    | -                  | 29  | 89            | -                            | 34                                     | 72            | 27               |                   |           |
|   | PAYERNE                   | 490 A            | 97                                     | 286                | -   | 23            | 270                          | -                                      | 149           | 144              | 17                   | 17          | 542                                    | -                  | 29  | 109           | -                            | 42                                     | 86            | 23               |                   |           |
|   | PULLY                     | 461 S            | 120                                    | 190                | -   | 17            | 305                          | -                                      | 175           | 137              | 19                   | 32          | 498                                    | -                  | 29  | 112           | -                            | 49                                     | 70            | 23               |                   |           |
| ⑥   | GLARUS                    | 515 T            | 94                                     | 296                | -   | 24            | 236                          | -                                      | 122           | 150              | 15                   | 10          | 571                                    | -                  | 30  | 108           | -                            | 38                                     | 70            | 19               |                   |           |
|   | SAENTIS                   | 2490 G           | 27                                     | 535                | -   | 31            | 400                          | -                                      | 241           | 146              | 50                   | -74         | 822                                    | -                  | 30  | 193           | -                            | 114                                    | 86            | 90               |                   |           |
|   | VADUZ                     | 460 F            | 99                                     | 277                | -   | 21            | 238                          | -                                      | 113           | 111              | 19                   | 21          | 530                                    | -                  | 28  | 115           | -                            | 48                                     | 88            | 23               |                   |           |
| ⑦   | ALTDORF                   | 449 F            | 108                                    | 246                | -   | 22            | 250                          | -                                      | 122           | 117              | 18                   | 28          | 506                                    | -                  | 28  | 101           | -                            | 30                                     | 58            | 26               |                   |           |
|   | ENGELBERG                 | 1035 T           | 76                                     | 356                | -   | 26            | 303                          | -                                      | 159           | 139              | 11                   | -19         | 657                                    | -                  | 30  | 114           | -                            | 33                                     | 55            | 11               |                   |           |
|   | GUËTSCH                   | 2287 S           | 40                                     | 496                | -   | 31            | 379                          | -                                      | 215           | 146              | 60                   | -62         | 785                                    | -                  | 30  | 198           | -                            | 85                                     | 70            | 57               |                   |           |
|   | NAPP                      | 1407 G           | 78                                     | 354                | -   | 26            | 314                          | -                                      | 201           | 163              | 34                   | -35         | 704                                    | -                  | 30  | 112           | -                            | 49                                     | 53            | 48               |                   |           |
|   | PILATUS                   | 2106 G           | 54                                     | 436                | -   | 29            | 344                          | -                                      | 238           | 165              | 61                   | -48         | 744                                    | -                  | 30  | 157           | -                            | 96                                     | 82            | 55               |                   |           |
| ⑧   | ADELBODEN                 | 1320 E           | 80                                     | 341                | -   | 26            | 323                          | -                                      | 181           | 147              | 9                    | -22         | 662                                    | -                  | 29  | 142           | -                            | 58                                     | 67            | 15               |                   |           |
|   | AIGLE                     | 381 F            | 100                                    | 274                | -   | 23            | 304                          | -                                      | 192           | 146              | 11                   | 29          | 505                                    | -                  | 29  | 130           | -                            | 64                                     | 82            | 21               |                   |           |
|   | INTERLAKEN                | 580 F            | 94                                     | 293                | -   | 24            | 294                          | -                                      | 155           | 178              | 14                   | 12          | 564                                    | -                  | 30  | 108           | -                            | 37                                     | 70            | 21               |                   |           |
|   | JUNGFRAUJOCH<br>MOLESAN   | 3580 P<br>1972 G | -33<br>62                              | 723<br>414         | -   | 31<br>29      | 392<br>382                   | -                                      | 218<br>259    | 153<br>192       | 57<br>32             | -128<br>-43 | 983<br>728                             | -                  | 30<br>30                                  | 168<br>170    | -                            | 93<br>104                              | 81<br>94      | 78<br>37         |                   |           |
| ⑨   | CHUR-EMS                  | 555 F            | 93                                     | 295                | -   | 23            | 302                          | -                                      | 185           | 147              | 24                   | 8           | 570                                    | -                  | 29  | 147           | -                            | 79                                     | 94            | 27               |                   |           |
|   | DAVOS                     | 1590 A           | 55                                     | 450                | -   | 31            | 360                          | -                                      | 205           | 147              | 24                   | -47         | 740                                    | -                  | 30  | 200           | -                            | 110                                    | 101           | 23               |                   |           |
|   | DISSENTIS                 | 1190 S           | 87                                     | 312                | -   | 24            | 341                          | -                                      | 186           | 165              | 11                   | -23         | 670                                    | -                  | 30  | 156           | -                            | 70                                     | 92            | 9                |                   |           |
|   | HINTERRHEIN               | 1611 F           | 52                                     | 458                | -   | 31            | 294                          | -                                      | 150           | 157              | 29                   | -51         | 753                                    | -                  | 30  | 154           | -                            | 57                                     | 94            | 30               |                   |           |
|   | WEISSFLUHOCH              | 2690 G           | 16                                     | 572                | -   | 31            | 383                          | -                                      | 232           | 144              | 24                   | -79         | 837                                    | -                  | 30  | 229           | -                            | 136                                    | 101           | 45               |                   |           |
| ⑩   | GR. ST. BERNHARD          | 2472 P           | 27                                     | 536                | -   | 31            | 328                          | -                                      | 180           | 153              | 49                   | -66         | 797                                    | -                  | 30  | 172           | -                            | 61                                     | 84            | 44               |                   |           |
|   | MONTANA/VERMALA           | 1508 S           | 86                                     | 324                | -   | 26            | 381                          | -                                      | 255           | 154              | 15                   | -22         | 666                                    | -                  | 30  | 173           | -                            | 103                                    | 82            | 15               |                   |           |
|   | SION                      | 482 F            | 99                                     | 276                | -   | 23            | 321                          | -                                      | 213           | 134              | 19                   | 15          | 555                                    | -                  | 30  | 139           | -                            | 74                                     | 76            | 17               |                   |           |
|   | ULRICHEN                  | 1345 F           | 59                                     | 421                | -   | 29            | 316                          | -                                      | 199           | 155              | 16                   | -45         | 735                                    | -                  | 30  | 148           | -                            | 58                                     | 69            | 11               |                   |           |
|   | VISP                      | 640 F            | 93                                     | 297                | -   | 24            | 328                          | -                                      | 214           | 142              | 16                   | 5           | 586                                    | -                  | 30  | 117           | -                            | 37                                     | 87            | 24               |                   |           |
|   | ZERMATT                   | 1638 A           | 65                                     | 410                | -   | 30            | 344                          | -                                      | 183           | 140              | 18                   | -34         | 703                                    | -                  | 30  | 176           | -                            | 89                                     | 88            | 15               |                   |           |
| ⑪   | CORVATSCH                 | 3315 G           | -22                                    | 688                | -   | 31            | 429                          | -                                      | 247           | 138              | 38                   | -105        | 916                                    | -                  | 30  | 250           | -                            | 139                                    | 100           | 56               |                   |           |
|   | SAMEDAN-ST. MORITZ        | 1705 F           | 33                                     | 519                | -   | 31            | 368                          | -                                      | 203           | 147              | 22                   | -73         | 818                                    | -                  | 30  | 205           | -                            | 116                                    | 99            | 19               |                   |           |
|   | SÇUOL                     | 1298 S           | 69                                     | 376                | -   | 27            | 349                          | -                                      | 197           | 142              | 14                   | -36         | 707                                    | -                  | 30  | 182           | -                            | 98                                     | 103           | 11               |                   |           |
| ⑫   | LOCARNO-MAGADINO          | 197 F            | 117                                    | 185                | -   | 17            | 303                          | -                                      | 166           | 113              | 14                   | 40          | 479                                    | -                  | 30  | 155           | -                            | 112                                    | 90            | 18               |                   |           |
|   | LOCARNO-MONTI             | 366 S            | 134                                    | 115                | -   | 11            | 293                          | -                                      | 168           | 111              | 12                   | 49          | 452                                    | -                  | 30  | 147           | -                            | 111                                    | 96            | 13               |                   |           |
|   | LUGANO                    | 273 F            | 137                                    | 110                | -   | 11            | 273                          | -                                      | 163           | 115              | 16                   | 58          | 427                                    | -                  | 30  | 143           | -                            | 111                                    | 101           | 17               |                   |           |
|   | PIOTTA                    | 1007 F           | 96                                     | 254                | -   | 20            | 272                          | -                                      | 155           | 127              | 21                   | 3           | 592                                    | -                  | 30  | 113           | -                            | 41                                     | 67            | 21               |                   |           |
|   | POSCHIAVO/ROBBIA          | 1078 T           | 81                                     | 329                | -   | 25            | 302                          | -                                      | 153           | 135              | 14                   | -9          | 627                                    | -                  | 30  | 166           | -                            | 87                                     | 91            | 14               |                   |           |
|   | SAN BERNARDINO<br>STABIO  | 1639 T<br>353 F  | 54<br>108                              | 444<br>203         | -   | 30<br>17      | 302<br>285                   | -                                      | 155<br>149    | 136<br>126       | 26<br>10             | -37<br>35   | 710<br>495                             | -                  | 30<br>30                                  | 170<br>145    | -                            | 83<br>103                              | 87<br>108     | 25<br>9          |                   |           |

## Hinweis zu den Windstärke-Angaben

Permanente Windregistrierungen in Höhenlagen bis zu 3600 m ü.M. sind messtechnisch ein schwieriges Problem. Vor allem das Winterhalbjahr stellt hohe Ansprüche an die Instrumente von Bergstationen. Mit einer guten Beheizung kann allerdings in den mei-

sten Fällen eine drohende Vereisung unterdrückt werden. Schwieriger hingegen ist das gleichmässige Erfassen der Windstärke über einen Bereich von Null bis etwa 60 Meter/Sekunde. Entweder werden die Geräte robust gebaut und besitzen einen hohen Schwellenwert, oder man verwendet leichte Konstruktionen, die dann regelmässig von kräftigen Sturmböen beschädigt werden. Ein

Vergleich der mittleren Windgeschwindigkeit zwischen Standard- und Gebirgswindmesser ist deshalb nur bedingt möglich, d. h. nur bei Berücksichtigung der unterschiedlichen Schwellenwerte. Im Anetz sind folgende Stationen mit einem Gebirgswindmesser ausgerüstet: Chasseral, Corvatsch, Gütsch, Grand St. Bernard, Jungfraujoche, La Dôle, Moleson, Pilatus, Säntis, Weissfluhjoche.

| Klimadaten für die Energietechnik                           |                    |               |      |  | D E Z E M B E R 1985 |                                    |               |                            |  |               |                  | J A N U A R 1986  |                  |  |                  |                                    |                            |                       |  |                  |                   |  |             |
|---|--------------------|---------------|------|--|----------------------|------------------------------------|---------------|----------------------------|--|---------------|------------------|-------------------|------------------|--|------------------|------------------------------------|----------------------------|-----------------------|--|------------------|-------------------|--|-------------|
| mitgeteilt von der Schweizerischen Meteorologischen Anstalt |                    |               |      |  |                      |                                    |               |                            |  |               |                  |                   |                  |  |                  |                                    |                            |                       |  |                  |                   |  |             |
| Klimaregion   | Station            | Höhe / m ü.M. | Lage | Luft-<br>temperatur<br>$t_{\text{lm}}$ |                      | Heizgrad-<br>tage<br>$HGT_{30/12}$ |               | Heiztage<br>$HT_{12}$      | Global-<br>strahlung<br>$G_{\text{H}}$ |               | Sonne<br>SS      |                   | Wind<br>$v$      | Luft-<br>temperatur<br>$t_{\text{lm}}$ |                  | Heizgrad-<br>tage<br>$HGT_{30/12}$ |                            | Heiztage<br>$HT_{12}$ | Global-<br>strahlung<br>$G_{\text{H}}$ |                  | Sonne<br>SS       |  | Wind<br>$v$ |
|   |                    |               |      | Mittel<br>0,1 °C                       | Summe<br>°C · Tage   | in %<br>der Norm                   | Summe<br>Tage | Summe<br>MJ/m <sup>2</sup> | in %<br>der Norm                       | Summe<br>Std. | in %<br>der Norm | Mittel<br>0,1 m/s | Mittel<br>0,1 °C | Summe<br>°C · Tage                     | in %<br>der Norm | Summe<br>Tage                      | Summe<br>MJ/m <sup>2</sup> | in %<br>der Norm      | Summe<br>Std.                          | in %<br>der Norm | Mittel<br>0,1 m/s |  |             |
| ①   | BASEL-BINNINGEN    | 316           | A    | 40                                     | 497                  | -                                  | 31            | 101                        | -                                      | 69            | 122              | 28                | 23               | 550                                    | -                | 31                                 | 104                        | -                     | 58                                     | 88               | 42                |  |             |
|   | FAHY               | 596           | F    | 35                                     | 512                  | -                                  | 31            | 95                         | -                                      | 61            | 95               | 24                | 4                | 607                                    | -                | 31                                 | 95                         | -                     | 35                                     | 49               | 42                |  |             |
|   | RUEHENBERG         | 610           | A    | 39                                     | 498                  | -                                  | 31            | 110                        | -                                      | 85            | 149              | 22                | 6                | 602                                    | -                | 31                                 | 113                        | -                     | 52                                     | 74               | 39                |  |             |
| ②   | CHASSERAL          | 1599          | G    | 3                                      | 610                  | -                                  | 31            | 160                        | -                                      | 116           | 132              | 108               | -46              | 763                                    | -                | 31                                 | 130                        | -                     | 41                                     | 47               | 91                |  |             |
|   | LA CHAUX DE FONDS  | 1018          | H    | 14                                     | 575                  | -                                  | 31            | 123                        | -                                      | 101           | 128              | 27                | -22              | 687                                    | -                | 31                                 | 113                        | -                     | 39                                     | 49               | 37                |  |             |
|   | LA DOLE            | 1670          | G    | 5                                      | 604                  | -                                  | 31            | 153                        | -                                      | 141           | 147              | 109               | -49              | 773                                    | -                | 31                                 | 110                        | -                     | 42                                     | 43               | 122               |  |             |
|   | LA FRETAZ          | 1202          | S    | 22                                     | 551                  | -                                  | 31            | 120                        | -                                      | 109           | 145              | 24                | -27              | 703                                    | -                | 31                                 | 124                        | -                     | 51                                     | 53               | 28                |  |             |
| ③   | GUETTINGEN         | 440           | A    | 19                                     | 561                  | -                                  | 31            | 90                         | -                                      | 50            | 161              | 20                | 6                | 603                                    | -                | 31                                 | 110                        | -                     | 53                                     | 137              | 39                |  |             |
|   | KLOTEN             | 436           | F    | 27                                     | 536                  | -                                  | 31            | 98                         | -                                      | 62            | 195              | 21                | 9                | 591                                    | -                | 31                                 | 103                        | -                     | 52                                     | 108              | 35                |  |             |
|   | ST. GALLEN         | 779           | T    | 38                                     | 503                  | -                                  | 31            | 121                        | -                                      | 75            | 192              | 17                | 0                | 619                                    | -                | 31                                 | 117                        | -                     | 49                                     | 106              | 31                |  |             |
|   | SCHAFFHAUSEN       | 437           | E    | 19                                     | 561                  | -                                  | 31            | 103                        | -                                      | 52            | 178              | 35                | 6                | 601                                    | -                | 31                                 | 121                        | -                     | 48                                     | 120              | 48                |  |             |
|   | TAENIKON           | 536           | F    | 27                                     | 536                  | -                                  | 31            | 108                        | -                                      | 71            | 192              | 18                | 2                | 615                                    | -                | 31                                 | 109                        | -                     | 44                                     | 100              | 32                |  |             |
|   | WAEDENSWIL         | 463           | E    | 33                                     | 519                  | -                                  | 31            | 122                        | -                                      | 96            | 310              | 13                | 8                | 596                                    | -                | 31                                 | 118                        | -                     | 57                                     | 135              | 28                |  |             |
|   | ZUERICH SMA        | 556           | S    | 36                                     | 509                  | -                                  | 31            | 110                        | -                                      | 89            | 240              | 19                | 9                | 592                                    | -                | 31                                 | 98                         | -                     | 51                                     | 108              | 39                |  |             |
| ④   | BÜCHS-SUHR         | 387           | F    | 24                                     | 547                  | -                                  | 31            | 93                         | -                                      | 59            | 210              | 12                | 12               | 582                                    | -                | 31                                 | 96                         | -                     | 43                                     | 101              | 27                |  |             |
|   | BERN-LIEBEFELD     | 565           | F    | 17                                     | 566                  | -                                  | 31            | 113                        | -                                      | 82            | 179              | 13                | 4                | 606                                    | -                | 31                                 | 119                        | -                     | 57                                     | 105              | 27                |  |             |
|   | LUZERN             | 456           | F    | 24                                     | 545                  | -                                  | 31            | 120                        | -                                      | 87            | 272              | 10                | 9                | 593                                    | -                | 31                                 | 124                        | -                     | 60                                     | 159              | 19                |  |             |
|   | WYNAU              | 422           | M    | 16                                     | 569                  | -                                  | 31            | 96                         | -                                      | 59            | 196              | 17                | 7                | 600                                    | -                | 31                                 | 102                        | -                     | 42                                     | 101              | 29                |  |             |
| ⑤   | CHANGINS           | 430           | A    | 32                                     | 521                  | -                                  | 31            | 105                        | -                                      | 87            | 171              | 21                | 16               | 570                                    | -                | 31                                 | 114                        | -                     | 56                                     | 97               | 30                |  |             |
|   | GENEVE-COINTRIN    | 420           | F    | 27                                     | 536                  | -                                  | 31            | 103                        | -                                      | 79            | 159              | 19                | 15               | 573                                    | -                | 31                                 | 109                        | -                     | 49                                     | 91               | 25                |  |             |
|   | NEUCHÂTEL          | 485           | A    | 33                                     | 519                  | -                                  | 31            | 93                         | -                                      | 50            | 133              | 20                | 19               | 562                                    | -                | 31                                 | 102                        | -                     | 51                                     | 103              | 34                |  |             |
|   | PAYERNE            | 490           | A    | 16                                     | 572                  | -                                  | 31            | 104                        | -                                      | 53            | 123              | 17                | 10               | 590                                    | -                | 31                                 | 122                        | -                     | 58                                     | 111              | 33                |  |             |
|   | PULLY              | 461           | S    | 41                                     | 493                  | -                                  | 31            | 116                        | -                                      | 92            | 154              | 16                | 21               | 555                                    | -                | 31                                 | 106                        | -                     | 51                                     | 74               | 20                |  |             |
| ⑥   | GLARUS             | 515           | T    | 26                                     | 541                  | -                                  | 31            | 108                        | -                                      | 73            | 144              | 14                | 0                | 619                                    | -                | 31                                 | 90                         | -                     | 32                                     | 59               | 25                |  |             |
|   | SAENTIS            | 2490          | G    | -37                                    | 735                  | -                                  | 31            | 162                        | -                                      | 135           | 106              | 93                | -99              | 928                                    | -                | 31                                 | 122                        | -                     | 61                                     | 50               | 102               |  |             |
|   | VADUZ              | 466           | F    | 51                                     | 459                  | -                                  | 30            | 115                        | -                                      | 85            | 194              | 29                | 16               | 571                                    | -                | 31                                 | 105                        | -                     | 47                                     | 88               | 32                |  |             |
| ⑦   | ALTDORF            | 449           | F    | 37                                     | 497                  | -                                  | 30            | 104                        | -                                      | 63            | 151              | 28                | 19               | 560                                    | -                | 31                                 | 92                         | -                     | 31                                     | 70               | 37                |  |             |
|   | ENGELBERG          | 1035          | T    | 8                                      | 595                  | -                                  | 31            | 101                        | -                                      | 49            | 143              | 10                | -20              | 682                                    | -                | 31                                 | 92                         | -                     | 24                                     | 48               | 17                |  |             |
|   | GUETSCH            | 2287          | S    | -26                                    | 700                  | -                                  | 31            | 176                        | -                                      | 137           | 114              | 77                | -90              | 901                                    | -                | 31                                 | 174                        | -                     | 78                                     | 64               | 86                |  |             |
|   | NAPF               | 1407          | G    | 17                                     | 560                  | -                                  | 30            | 131                        | -                                      | 109           | 130              | 43                | -37              | 734                                    | -                | 31                                 | 106                        | -                     | 50                                     | 54               | 55                |  |             |
|   | PILATUS            | 2106          | G    | -5                                     | 635                  | -                                  | 31            | 146                        | -                                      | 136           | 129              | 59                | -69              | 833                                    | -                | 31                                 | 107                        | -                     | 55                                     | 49               | 50                |  |             |
| ⑧   | ADELBODEN          | 1320          | E    | 16                                     | 571                  | -                                  | 31            | 141                        | -                                      | 102           | 121              | 11                | -24              | 693                                    | -                | 31                                 | 117                        | -                     | 50                                     | 58               | 22                |  |             |
|   | AIGLE              | 381           | F    | 24                                     | 545                  | -                                  | 31            | 124                        | -                                      | 97            | 152              | 15                | 15               | 574                                    | -                | 31                                 | 112                        | -                     | 49                                     | 65               | 27                |  |             |
|   | INTERLAKEN         | 580           | F    | 11                                     | 587                  | -                                  | 31            | 121                        | -                                      | 86            | 192              | 13                | -2               | 627                                    | -                | 31                                 | 103                        | -                     | 48                                     | 106              | 19                |  |             |
|   | JUNGFRAUJOCH       | 3580          | P    | -94                                    | 911                  | -                                  | 31            | 183                        | -                                      | 141           | 124              | 77                | -170             | 1147                                   | -                | 31                                 | 109                        | -                     | 55                                     | 51               | 124               |  |             |
|   | MOLESÓN            | 1972          | G    | 0                                      | 619                  | -                                  | 31            | 159                        | -                                      | 146           | 138              | -                 | -60              | 805                                    | -                | 31                                 | 111                        | -                     | 55                                     | 49               | -                 |  |             |
| ⑨   | CHUR-EMS           | 555           | F    | 39                                     | 500                  | -                                  | 31            | 128                        | -                                      | 110           | 135              | 29                | 3                | 611                                    | -                | 31                                 | 125                        | -                     | 64                                     | 78               | 33                |  |             |
|   | DAVOS              | 1590          | A    | -16                                    | 669                  | -                                  | 31            | 161                        | -                                      | 128           | 121              | 16                | -62              | 812                                    | -                | 31                                 | 154                        | -                     | 76                                     | 72               | 23                |  |             |
|   | DISENTIS           | 1190          | S    | 20                                     | 559                  | -                                  | 31            | 138                        | -                                      | 94            | 124              | 9                 | -30              | 712                                    | -                | 31                                 | 129                        | -                     | 50                                     | 63               | 9                 |  |             |
|   | HINTERRHEIN        | 1611          | F    | -32                                    | 718                  | -                                  | 31            | 111                        | -                                      | 46            | 123              | 32                | -61              | 810                                    | -                | 31                                 | 147                        | -                     | 41                                     | 75               | 37                |  |             |
|   | WEISSFLUHOCH       | 2690          | G    | -49                                    | 772                  | -                                  | 31            | 183                        | -                                      | 133           | 101              | 57                | -113             | 970                                    | -                | 31                                 | 180                        | -                     | 72                                     | 57               | 69                |  |             |
| ⑩   | GR. ST. BERNHARD   | 2472          | P    | -38                                    | 738                  | -                                  | 31            | 101                        | -                                      | 33            | 115              | 42                | -98              | 924                                    | -                | 31                                 | 136                        | -                     | 25                                     | 45               | 68                |  |             |
|   | MONTANA/VERMOLA    | 1508          | S    | 17                                     | 568                  | -                                  | 31            | 165                        | -                                      | 142           | 114              | 17                | -41              | 746                                    | -                | 31                                 | 138                        | -                     | 67                                     | 54               | 28                |  |             |
|   | SION               | 482           | F    | 9                                      | 594                  | -                                  | 31            | 118                        | -                                      | 75            | 107              | 18                | 3                | 612                                    | -                | 31                                 | 118                        | -                     | 51                                     | 65               | 22                |  |             |
|   | ULRICHEN           | 1345          | F    | -48                                    | 770                  | -                                  | 31            | 116                        | -                                      | 72            | 100              | 8                 | -62              | 813                                    | -                | 31                                 | 106                        | -                     | 30                                     | 36               | 16                |  |             |
|   | VISP               | 640           | F    | 4                                      | 607                  | -                                  | 31            | 58                         | -                                      | 0             | 0                | 19                | -6               | 639                                    | -                | 31                                 | 80                         | -                     | 5                                      | 36               | 45                |  |             |
|   | ZERMATT            | 1638          | A    | -9                                     | 649                  | -                                  | 31            | 148                        | -                                      | 98            | 103              | 15                | -56              | 793                                    | -                | 31                                 | 124                        | -                     | 48                                     | 48               | 15                |  |             |
| ⑪   | CORVATSCH          | 3315          | G    | -79                                    | 864                  | -                                  | 31            | 204                        | -                                      | 150           | 111              | 61                | -151             | 1087                                   | -                | 31                                 | 207                        | -                     | 98                                     | 77               | 59                |  |             |
|   | SAMEDAN-ST. MORITZ | 1705          | F    | -61                                    | 808                  | -                                  | 31            | 166                        | -                                      | 123           | 108              | 18                | -88              | 893                                    | -                | 31                                 | 170                        | -                     | 81                                     | 68               | 23                |  |             |
|   | SCUOL              | 1298          | S    | -14                                    | 662                  | -                                  | 31            | 147                        | -                                      | 93            | 112              | 14                | -57              | 797                                    | -                | 31                                 | 140                        | -                     | 55                                     | 60               | 12                |  |             |
| ⑫   | LOCARNO-MAGADINO   | 197           | F    | 30                                     | 527                  | -                                  | 31            | 109                        | -                                      | 98            | 81               | 15                | 18               | 565                                    | -                | 31                                 | 158                        | -                     | 132                                    | 99               | 21                |  |             |
|   | LOCARNO-MONTI      | 366           | S    | 57                                     | 434                  | -                                  | 30            | 112                        | -                                      | 99            | 88               | 9                 | 28               | 534                                    | -                | 31                                 | 156                        | -                     | 124                                    | 99               | 15                |  |             |
|   | LUGANO             | 273           | F    | 55                                     | 448                  | -                                  | 31            | 99                         | -                                      | 92            | 88               | 12                | 35               | 510                                    | -                | 31                                 | 145                        | -                     | 130                                    | 112              | 20                |  |             |
|   | PIOTTA             | 1007          | F    | 21                                     | 554                  | -                                  | 31            | 52                         | -                                      | 9             | 85               | 26                | -17              | 673                                    | -                | 31                                 | 88                         | -                     | 23                                     | 49               | 23                |  |             |
|   | POSCIAVO/ROBBIA    | 1078          | T    | 17                                     | 560                  | -                                  | 30            | 119                        | -                                      | 76            | 85               | 22                | -30              | 713                                    | -                | 31                                 | 153                        | -                     | 81                                     | 82               | 31                |  |             |
|   | SAN BERNARDINO     | 1639          | T    | -9                                     | 648                  | -                                  | 31            | 128                        | -                                      | 88            | 96               | 35                | -59              | 802                                    | -                | 31                                 | 161                        | -                     | 83                                     | 76               | 28                |  |             |
|   | STABIO             | 353           | F    | 27                                     | 536                  | -                                  | 31            | 100                        | -                                      | 84            | 89               | 7                 | 10               | 590                                    | -                | 31                                 | 149                        | -                     | 121                                    | 103              | 13                |  |             |

| Höhe  | - | m ü.M.   | Höhe des Messfeldes in Metern über Meer |                                |                    |         |                              |                    |
|---|---|----------|---|--------------------------------|--------------------|---------|------------------------------|--------------------|
| Lage  | - | codiert: | Symbol                                  | Lagedefinition                 | Höhe über Talsohle | Symbol  | Lagedefinition               | Höhe über Talsohle |
| Karte mit Stationspunkten und Klimaregionen siehe Heft 51/52 / 82 (S. 1129) dieser Zeitschrift. |   |          | F                                       | Ebene, flaches Tal             | < 30 m             | ■       | dichte städtische Überbauung | -                  |
|   |   |          | A                                       | erhöhte Lage, Anhöhe           | 30-100 m           | S       | Südhanglage                  | > 100 m            |
|   |   |          | T                                       | geneigtes Tal                  | -                  | E; W; N | Ost-, West-, Nordhanglage    | > 100 m            |
|   |   |          | M                                       | Muldenlage, enger Talabschluss | -                  | P       | Passlage, Sattel             | -                  |
|   |   |          | U                                       | Seeufer                        | -                  | G       | Gipfelloge, Grat             | -                  |

| Klimadaten für die Energetechnik                            |                    |             |      | F E B R U A R 1986            |                            |               |                    |                       |               |            |               | M A E R Z 1986 |                               |                            |               |                    |                       |               |            |               |                |
|---|--------------------|-------------|------|-------------------------------|----------------------------|---------------|--------------------|-----------------------|---------------|------------|---------------|----------------|-------------------------------|----------------------------|---------------|--------------------|-----------------------|---------------|------------|---------------|----------------|
| mitgeteilt von der Schweizerischen Meteorologischen Anstalt |                    |             |      |                               |                            |               |                    |                       |               |            |               |                |                               |                            |               |                    |                       |               |            |               |                |
| Klimaregion   | Station            | Höhe/m ü.M. | Lage | Lufttemperatur $\bar{t}_{lm}$ | Heizgradtage $HGT_{20/12}$ |               | Heiztage $HT_{12}$ | Globalstrahlung $G_H$ |               | Sonne SS   |               | Wind $v$       | Lufttemperatur $\bar{t}_{lm}$ | Heizgradtage $HGT_{20/12}$ |               | Heiztage $HT_{12}$ | Globalstrahlung $G_H$ |               | Sonne SS   |               | Wind $v$       |
|   |                    |             |      | Mittel 0,1 °C                 | Summe °C · Tage            | in % der Norm | Summe Tage         | Summe MJ/m²           | in % der Norm | Summe Std. | in % der Norm | Mittel 0,1 m/s | Mittel 0,1 °C                 | Summe °C · Tage            | in % der Norm | Summe Tage         | Summe MJ/m²           | in % der Norm | Summe Std. | in % der Norm | Mittel 0,1 m/s |
| ①   | BASEL-BINNINGEN    | 316 A       |      | -50                           | 700                        | -             | 28                 | 155                   | -             | 33         | 40            | 23             | 43                            | 486                        | -             | 31                 | 291                   | -             | 98         | 70            | 31             |
|   | FAHY               | 596 F       |      | -67                           | 748                        | -             | 28                 | 175                   | -             | 55         | 67            | 35             | 29                            | 531                        | -             | 31                 | 295                   | -             | 104        | 88            | 36             |
|   | RUENENBERG         | 610 A       |      | -62                           | 734                        | -             | 28                 | 185                   | -             | 36         | 38            | 26             | 31                            | 525                        | -             | 31                 | 324                   | -             | 109        | 86            | 32             |
| ②   | CHASSERAL          | 1599 G      |      | -74                           | 767                        | -             | 28                 | 277                   | -             | 131        | 140           | 50             | -17                           | 671                        | -             | 31                 | 387                   | -             | 143        | 101           | 71             |
|   | LA CHAUX DE FONDS  | 1018 M      |      | -63                           | 735                        | -             | 28                 | 209                   | -             | 90         | 101           | 23             | 8                             | 596                        | -             | 31                 | 344                   | -             | 132        | 94            | 29             |
|   | LA DOLE            | 1670 G      |      | -71                           | 758                        | -             | 28                 | 215                   | -             | 106        | 103           | 87             | -17                           | 674                        | -             | 31                 | 349                   | -             | 134        | 89            | 92             |
|   | LA FRETAZ          | 1202 S      |      | -64                           | 740                        | -             | 28                 | 174                   | -             | 51         | 47            | 17             | 6                             | 602                        | -             | 31                 | 308                   | -             | 130        | 96            | 23             |
| ③   | GUETTINGEN         | 440 A       |      | -52                           | 705                        | -             | 28                 | 144                   | -             | 32         | 49            | 23             | 28                            | 534                        | -             | 31                 | 299                   | -             | 113        | 83            | 24             |
|   | KLOTEN             | 436 F       |      | -51                           | 704                        | -             | 28                 | 169                   | -             | 35         | 45            | 24             | 34                            | 516                        | -             | 31                 | 310                   | -             | 120        | 85            | 27             |
|   | ST. GALLEN         | 779 T       |      | -71                           | 759                        | -             | 28                 | 159                   | -             | 20         | 29            | 12             | 24                            | 546                        | -             | 31                 | 322                   | -             | 99         | 76            | 20             |
|   | SCHAFFHAUSEN       | 437 E       |      | -50                           | 699                        | -             | 28                 | 176                   | -             | 37         | 58            | 34             | 31                            | 523                        | -             | 31                 | 319                   | -             | 83         | 64            | 39             |
|   | TAENIKON           | 536 F       |      | -59                           | 727                        | -             | 28                 | 151                   | -             | 24         | 35            | 16             | 27                            | 536                        | -             | 31                 | 324                   | -             | 108        | 81            | 22             |
|   | WAEDENSWIL         | 463 E       |      | -44                           | 684                        | -             | 28                 | 163                   | -             | 40         | 53            | 17             | 34                            | 515                        | -             | 31                 | 341                   | -             | 134        | 102           | 17             |
|   | ZUERICH SMA        | 556 S       |      | -52                           | 706                        | -             | 28                 | 154                   | -             | 39         | 48            | 22             | 35                            | 513                        | -             | 31                 | 304                   | -             | 126        | 86            | 27             |
| ④   | BUCHS-SUHR         | 387 F       |      | -46                           | 687                        | -             | 28                 | 142                   | -             | 27         | 41            | 13             | 33                            | 517                        | -             | 31                 | 288                   | -             | 104        | 77            | 18             |
|   | BERN-LIEBEFELD     | 565 F       |      | -45                           | 687                        | -             | 28                 | 157                   | -             | 30         | 35            | 16             | 35                            | 512                        | -             | 31                 | 338                   | -             | 144        | 99            | 23             |
|   | LUZERN             | 456 F       |      | -44                           | 684                        | -             | 28                 | 144                   | -             | 23         | 37            | 11             | 33                            | 517                        | -             | 31                 | 329                   | -             | 125        | 101           | 16             |
|   | WYNAU              | 422 M       |      | -48                           | 694                        | -             | 28                 | 152                   | -             | 14         | 20            | 25             | 25                            | 543                        | -             | 31                 | 306                   | -             | 101        | 72            | 22             |
| ⑤   | CHANGINS           | 430 A       |      | -20                           | 615                        | -             | 28                 | 155                   | -             | 29         | 31            | 26             | 47                            | 475                        | -             | 31                 | 307                   | -             | 126        | 83            | 29             |
|   | GENEVE-COINTRIN    | 420 F       |      | -18                           | 611                        | -             | 28                 | 135                   | -             | 22         | 24            | 26             | 47                            | 476                        | -             | 31                 | 312                   | -             | 128        | 82            | 28             |
|   | NEUCHATEL          | 485 A       |      | -31                           | 646                        | -             | 28                 | 141                   | -             | 22         | 26            | 26             | 40                            | 497                        | -             | 31                 | 288                   | -             | 106        | 69            | 26             |
|   | PAYERNE            | 490 A       |      | -42                           | 678                        | -             | 28                 | 163                   | -             | 23         | 28            | 18             | 32                            | 521                        | -             | 31                 | 330                   | -             | 115        | 78            | 27             |
|   | PULLY              | 461 S       |      | -20                           | 616                        | -             | 28                 | 151                   | -             | 52         | 52            | 21             | 50                            | 464                        | -             | 31                 | 314                   | -             | 131        | 78            | 20             |
| ⑥   | GLARUS             | 515 T       |      | -47                           | 691                        | -             | 28                 | 182                   | -             | 68         | 108           | 20             | 29                            | 529                        | -             | 31                 | 298                   | -             | 83         | 90            | 19             |
|   | SAENTIS            | 2490 G      |      | -116                          | 884                        | -             | 28                 | 302                   | -             | 157        | 123           | 73             | -61                           | 808                        | -             | 31                 | 421                   | -             | 155        | 91            | 76             |
|   | VADUZ              | 460 F       |      | -45                           | 685                        | -             | 28                 | 177                   | -             | 62         | 87            | 21             | 44                            | 485                        | -             | 31                 | 317                   | -             | 107        | 81            | 23             |
|   | ALTDORF            | 449 F       |      | -26                           | 633                        | -             | 28                 | 173                   | -             | 58         | 82            | 27             | 43                            | 487                        | -             | 31                 | 321                   | -             | 111        | 80            | 22             |
| ⑦   | ENGELBERG          | 1035 T      |      | -71                           | 760                        | -             | 28                 | 228                   | -             | 85         | 99            | 11             | 14                            | 577                        | -             | 31                 | 388                   | -             | 141        | 107           | 14             |
|   | GUETSCH            | 2287 S      |      | -112                          | 873                        | -             | 28                 | 332                   | -             | 153        | 123           | 67             | -50                           | 776                        | -             | 31                 | 518                   | -             | 164        | 109           | 62             |
|   | NAPP               | 1407 G      |      | -68                           | 750                        | -             | 28                 | 226                   | -             | 113        | 110           | 26             | -1                            | 624                        | -             | 31                 | 346                   | -             | 151        | 116           | 38             |
|   | PILATUS            | 2106 G      |      | -89                           | 808                        | -             | 28                 | 264                   | -             | 152        | 119           | 63             | -35                           | 728                        | -             | 31                 | 386                   | -             | 174        | 122           | 54             |
|   | ADELBODEN          | 1320 E      |      | -62                           | 733                        | -             | 28                 | 237                   | -             | 98         | 106           | 11             | 10                            | 588                        | -             | 31                 | 398                   | -             | 147        | 123           | 18             |
| ⑧   | AIGLE              | 381 F       |      | -14                           | 598                        | -             | 28                 | 161                   | -             | 87         | 87            | 19             | 47                            | 473                        | -             | 31                 | 339                   | -             | 136        | 82            | 19             |
|   | INTERLAKEN         | 580 F       |      | -37                           | 663                        | -             | 28                 | 174                   | -             | 62         | 97            | 20             | 35                            | 512                        | -             | 31                 | 334                   | -             | 128        | 102           | 18             |
|   | JUNGFRAUJOCH       | 3580 P      |      | -176                          | 1052                       | -             | 28                 | 276                   | -             | 147        | 138           | 68             | -129                          | 1021                       | -             | 31                 | 429                   | -             | 151        | 98            | 72             |
|   | MOLESON            | 1972 G      |      | -78                           | 779                        | -             | 28                 | 272                   | -             | 146        | 125           | -              | -28                           | 708                        | -             | 31                 | 386                   | -             | 164        | 113           | -              |
|   | CHUR-EMS           | 555 F       |      | -30                           | 643                        | -             | 28                 | 219                   | -             | 109        | 111           | 32             | 50                            | 466                        | -             | 31                 | 370                   | -             | 140        | 104           | 29             |
| ⑨   | DAVOS              | 1590 A      |      | -92                           | 817                        | -             | 28                 | 298                   | -             | 147        | 127           | 18             | -8                            | 646                        | -             | 31                 | 483                   | -             | 156        | 101           | 22             |
|   | DISENTIS           | 1190 S      |      | -57                           | 719                        | -             | 28                 | 271                   | -             | 110        | 125           | 11             | 19                            | 563                        | -             | 31                 | 448                   | -             | 143        | 102           | 11             |
|   | HINTERRHEIN        | 1611 F      |      | -102                          | 844                        | -             | 28                 | 272                   | -             | 88         | 109           | 39             | -18                           | 676                        | -             | 31                 | 465                   | -             | 118        | 114           | 36             |
|   | WEISSFLUHOCH       | 2690 G      |      | -128                          | 919                        | -             | 28                 | 329                   | -             | 184        | 137           | 50             | -72                           | 843                        | -             | 31                 | 516                   | -             | 177        | 107           | 40             |
| ⑩   | GR. ST. BERNHARD   | 2472 P      |      | -121                          | 897                        | -             | 28                 | 293                   | -             | 113        | 113           | 76             | -62                           | 811                        | -             | 31                 | 520                   | -             | 174        | 122           | 72             |
|   | MONTANA VERMALA    | 1508 S      |      | -60                           | 727                        | -             | 28                 | 264                   | -             | 124        | 96            | 18             | 3                             | 610                        | -             | 31                 | 439                   | -             | 191        | 107           | 19             |
|   | SION               | 482 F       |      | -10                           | 588                        | -             | 28                 | 222                   | -             | 116        | 98            | 22             | 54                            | 453                        | -             | 31                 | 395                   | -             | 173        | 97            | 23             |
|   | ULRICHEN           | 1345 F      |      | -105                          | 853                        | -             | 28                 | 260                   | -             | 128        | 126           | 15             | -13                           | 660                        | -             | 31                 | 421                   | -             | 140        | 92            | 16             |
|   | VISP               | 640 F       |      | -17                           | 607                        | -             | 28                 | 234                   | -             | 115        | 102           | 30             | 48                            | 470                        | -             | 31                 | 398                   | -             | 181        | 93            | 27             |
|   | ZERMATT            | 1638 A      |      | -81                           | 786                        | -             | 28                 | 274                   | -             | 112        | 100           | 15             | -9                            | 647                        | -             | 31                 | 461                   | -             | 156        | 102           | 18             |
| ⑪   | CORVATSCH          | 3315 G      |      | -159                          | 1004                       | -             | 28                 | 342                   | -             | 166        | 120           | 45             | -103                          | 939                        | -             | 31                 | 540                   | -             | 180        | 97            | 37             |
|   | SAMEDAN-ST. MORITZ | 1705 F      |      | -130                          | 923                        | -             | 28                 | 290                   | -             | 131        | 106           | 19             | -36                           | 730                        | -             | 31                 | 476                   | -             | 155        | 104           | 23             |
|   | SCUOL              | 1298 S      |      | -83                           | 791                        | -             | 28                 | 273                   | -             | 131        | 121           | 13             | 11                            | 586                        | -             | 31                 | 450                   | -             | 152        | 98            | 14             |
| ⑫   | LOCARNO-MAGADINO   | 197 F       |      | 5                             | 546                        | -             | 28                 | 212                   | -             | 99         | 67            | 18             | 67                            | 411                        | -             | 31                 | 371                   | -             | 152        | 83            | 18             |
|   | LOCARNO-MONTI      | 366 S       |      | 10                            | 532                        | -             | 28                 | 202                   | -             | 100        | 69            | 15             | 71                            | 400                        | -             | 31                 | 353                   | -             | 152        | 80            | 15             |
|   | LUGANO             | 273 F       |      | 17                            | 513                        | -             | 28                 | 180                   | -             | 87         | 64            | 17             | 71                            | 400                        | -             | 31                 | 302                   | -             | 136        | 81            | 15             |
|   | PIOTTA             | 1007 F      |      | -35                           | 659                        | -             | 28                 | 208                   | -             | 84         | 74            | 27             | 23                            | 548                        | -             | 31                 | 380                   | -             | 144        | 101           | 19             |
|   | POSCHIAVO/ROBBIA   | 1078 T      |      | -57                           | 718                        | -             | 28                 | 231                   | -             | 74         | 68            | 15             | 10                            | 588                        | -             | 31                 | 381                   | -             | 93         | 71            | 14             |
|   | SAN BERNARDINO     | 1639 T      |      | -86                           | 801                        | -             | 28                 | 252                   | -             | 85         | 73            | 35             | -15                           | 668                        | -             | 31                 | 418                   | -             | 114        | 88            | 23             |
| STABIO  | 353 F              |             | -6   | 577                           | -                          | 28            | 163                | -                     | 66            | 52         | 10            | 53             | 455                           | -                          | 31            | 320                | -                     | 123           | 81         | 10            |                |

|                               |            |         |   |
|-------------------------------|------------|---------|---|
| Lufttemperatur $\bar{t}_{lm}$ | -          | 0,1 °C  | Temperaturmittel der entsprechenden Zeitspanne, berechnet aus den alle zehn Minuten in zwei Meter über Boden gemessenen Momentanwerten                      |
| Heizgradtage $HGT_{20/12}$    | Summe      | °C Tage | Summe der Heizgradtage für die entsprechende Zeitspanne. Raumtemperatur 20,0 °C. Heizgrenze: Tagesmittel = 12,0 °C [Definition siehe SIA-Empfehlung 381/3]  |
|                               | % der Norm | %       | Heizgradtag-Zahl, ausgedrückt in Prozenten des mehrjährigen Mittelwertes (Mittelwert = 100%) [Definition und Berechnungsmethode siehe SIA-Empfehlung 381/3] |
| Heiztage $HT_{12}$            | -          | Tage    | Summe der Heiztage für die entsprechende Zeitspanne. Heizgrenze = 12,0 °C [Definition siehe SIA-Empfehlung 381/3]   |

| Klimadaten für die Energietechnik<br>mitgeteilt von der Schweizerischen Meteorologischen Anstalt |                    |             |      | SEPTEMBER 1985 - DEZEMBER 1985 |                      |          |                 |                  |                | JANUAR 1985 - DEZEMBER 1985 |                |              |          |                 |                   |                      |         |                  |                |     |    |
|--|--------------------|-------------|------|--------------------------------|----------------------|----------|-----------------|------------------|----------------|-----------------------------|----------------|--------------|----------|-----------------|-------------------|----------------------|---------|------------------|----------------|-----|----|
| Klimaregion  | Station            | Höhe/m ü.M. | Lage | Lufttemperatur                 | Heizgradtage         | Heiztage | Globalstrahlung | Sonne            |                | Wind                        | Lufttemperatur | Heizgradtage | Heiztage | Globalstrahlung | Sonne             |                      | Wind    |                  |                |     |    |
|  |                    |             |      | $t_{\text{Luft}}$              | HGT <sub>20/12</sub> |          |                 | HT <sub>12</sub> | G <sub>H</sub> |                             | SS             | v            |          |                 | $t_{\text{Luft}}$ | HGT <sub>20/12</sub> |         | HT <sub>12</sub> | G <sub>H</sub> | SS  | v  |
|  |                    |             |      | Mittel                         | Summe                | in %     | Summe           | Summe            | in %           | Mittel                      | Mittel         | Summe        | in %     | Summe           | Summe             | in %                 | Mittel  |                  |                |     |    |
|  |                    |             |      | 0,1°C                          | °C · Tage            | der Norm | Tag             | Std.             | der Norm       | 0,1 m/s                     | 0,1°C          | °C · Tage    | der Norm | Tag             | Std.              | der Norm             | 0,1 m/s |                  |                |     |    |
| ①  | HASEL-BINNINGEN    | 316 A       |      | 81                             | 1315                 | -        | 83              | 917              | -              | 509                         | 138            | 24           | 90       | 3510            | -                 | 209                  | 4191    | -                | 1696           | 109 | 26 |
|  | FAHY               | 596 F       |      | 72                             | 1433                 | -        | 88              | 925              | -              | 510                         | 141            | 27           | 76       | 4025            | -                 | 238                  | 4155    | -                | 1680           | 116 | 28 |
|  | RUENENBERG         | 610 A       |      | 75                             | 1401                 | -        | 87              | 975              | -              | 547                         | 144            | 22           | 79       | 3921            | -                 | 230                  | 4307    | -                | 1715           | 112 | 24 |
| ②  | CHASSERAL          | 1599 G      |      | 34                             | 1904                 | -        | 103             | 1211             | -              | 691                         | 155            | 94           | 29       | 5949            | -                 | 315                  | 4678    | -                | 1814           | 115 | 78 |
|  | LA CHAUX DE FONDS  | 1018 M      |      | 50                             | 1674                 | -        | 96              | 1031             | -              | 635                         | 148            | 24           | 55       | 4855            | -                 | 275                  | 4340    | -                | 1772           | 113 | 27 |
|  | LA DOLE            | 1670 G      |      | 38                             | 1835                 | -        | 100             | 1188             | -              | 742                         | 153            | 82           | 31       | 5815            | -                 | 306                  | 4587    | -                | 1940           | 113 | 86 |
|  | LA FRETAZ          | 1202 S      |      | 53                             | 1670                 | -        | 98              | 1019             | -              | 627                         | 139            | 21           | 51       | 5018            | -                 | 283                  | 4304    | -                | 1864           | 111 | 21 |
| ③  | GUETTINGEN         | 440 A       |      | 64                             | 1494                 | -        | 90              | 769              | -              | 388                         | 125            | 21           | 75       | 3998            | -                 | 230                  | 4104    | -                | 1626           | 111 | 24 |
|  | KLOTEN             | 436 F       |      | 72                             | 1422                 | -        | 87              | 822              | -              | 434                         | 147            | 20           | 82       | 3795            | -                 | 218                  | 4020    | -                | 1645           | 113 | 23 |
|  | ST. GALLEN         | 779 T       |      | 67                             | 1501                 | -        | 92              | 903              | -              | 445                         | 134            | 17           | 70       | 4235            | -                 | 243                  | 4172    | -                | 1520           | 107 | 20 |
|  | SCHAFFHAUSEN       | 437 E       |      | 67                             | 1482                 | -        | 89              | 932              | -              | 422                         | 142            | 32           | 80       | 3900            | -                 | 223                  | 4393    | -                | 1542           | 110 | 35 |
|  | TAENIKON           | 536 F       |      | 65                             | 1477                 | -        | 89              | 862              | -              | 425                         | 132            | 17           | 75       | 4043            | -                 | 232                  | 4242    | -                | 1553           | 108 | 20 |
|  | WAEDENSWIL         | 463 E       |      | 77                             | 1365                 | -        | 87              | 894              | -              | 456                         | 150            | 15           | 84       | 3742            | -                 | 221                  | 4332    | -                | 1650           | 115 | 17 |
|  | ZUERICH SMA        | 556 S       |      | 74                             | 1389                 | -        | 86              | 849              | -              | 474                         | 138            | 19           | 83       | 3781            | -                 | 221                  | 4035    | -                | 1643           | 107 | 22 |
| ④  | BUCHS-SUHR         | 387 F       |      | 72                             | 1413                 | -        | 87              | 786              | -              | 427                         | 149            | 12           | 84       | 3755            | -                 | 220                  | 3838    | -                | 1600           | 113 | 15 |
|  | BERN-LIEBEFELD     | 565 F       |      | 69                             | 1439                 | -        | 86              | 944              | -              | 529                         | 147            | 15           | 79       | 3916            | -                 | 225                  | 4254    | -                | 1739           | 109 | 18 |
|  | LUZERN             | 456 F       |      | 73                             | 1395                 | -        | 86              | 868              | -              | 424                         | 146            | 11           | 83       | 3776            | -                 | 220                  | 4037    | -                | 1459           | 112 | 14 |
|  | WYNAU              | 422 M       |      | 67                             | 1463                 | -        | 89              | 867              | -              | 437                         | 148            | 18           | 78       | 3950            | -                 | 230                  | 4136    | -                | 1599           | 110 | 21 |
| ⑤  | CHANGINS           | 430 A       |      | 86                             | 1206                 | -        | 75              | 1021             | -              | 611                         | 154            | 24           | 92       | 3450            | -                 | 207                  | 4660    | -                | 1930           | 112 | 26 |
|  | GENEVE-COINTRIN    | 420 F       |      | 83                             | 1254                 | -        | 78              | 1017             | -              | 575                         | 141            | 19           | 91       | 3499            | -                 | 207                  | 4649    | -                | 1865           | 104 | 20 |
|  | NEUCHÂTEL          | 485 A       |      | 87                             | 1228                 | -        | 76              | 914              | -              | 500                         | 140            | 22           | 93       | 3473            | -                 | 207                  | 4221    | -                | 1716           | 108 | 25 |
|  | PAYERNE            | 490 A       |      | 71                             | 1419                 | -        | 85              | 935              | -              | 492                         | 140            | 18           | 81       | 3826            | -                 | 222                  | 4372    | -                | 1751           | 111 | 21 |
|  | PULLY              | 461 S       |      | 91                             | 1181                 | -        | 77              | 1020             | -              | 584                         | 135            | 19           | 96       | 3371            | -                 | 209                  | 4656    | -                | 1941           | 107 | 19 |
| ⑥  | GLARUS             | 515 T       |      | 69                             | 1434                 | -        | 88              | 808              | -              | 378                         | 128            | 16           | 78       | 3929            | -                 | 229                  | 3827    | -                | 1337           | 107 | 21 |
|  | SAENTIS            | 2490 G      |      | -7                             | 2522                 | -        | 122             | 1244             | -              | 717                         | 120            | 72           | -18      | 7928            | -                 | 361                  | 5040    | -                | 1876           | 103 | 75 |
|  | VADUZ              | 460 F       |      | 83                             | 1291                 | -        | 82              | 863              | -              | 440                         | 126            | 23           | 90       | 3525            | -                 | 209                  | 4068    | -                | 1532           | 107 | 24 |
| ⑦  | ALTDORF            | 449 F       |      | 82                             | 1256                 | -        | 81              | 866              | -              | 404                         | 116            | 23           | 89       | 3511            | -                 | 213                  | 4027    | -                | 1431           | 100 | 26 |
|  | ENGELBERG          | 1035 T      |      | 47                             | 1720                 | -        | 98              | 945              | -              | 435                         | 125            | 11           | 53       | 4929            | -                 | 276                  | 4229    | -                | 1395           | 104 | 13 |
|  | GUETSCH            | 2287 S      |      | 8                              | 2333                 | -        | 121             | 1292             | -              | 697                         | 123            | 62           | -3       | 7306            | -                 | 355                  | 5318    | -                | 1900           | 105 | 67 |
|  | NAPP               | 1407 G      |      | 46                             | 1773                 | -        | 100             | 984              | -              | 592                         | 134            | 39           | 43       | 5366            | -                 | 294                  | 4037    | -                | 1691           | 113 | 38 |
|  | PILATUS            | 2106 G      |      | 22                             | 2123                 | -        | 116             | 1083             | -              | 707                         | 136            | 57           | 12       | 6682            | -                 | 342                  | 4294    | -                | 1798           | 111 | 66 |
| ⑧  | ADELBODEN          | 1320 E      |      | 50                             | 1680                 | -        | 96              | 1063             | -              | 552                         | 128            | 12           | 51       | 4990            | -                 | 281                  | 4448    | -                | 1629           | 110 | 15 |
|  | AIGLE              | 381 F       |      | 77                             | 1332                 | -        | 84              | 1026             | -              | 604                         | 137            | 15           | 87       | 3619            | -                 | 217                  | 4420    | -                | 1842           | 102 | 18 |
|  | INTERLAKEN         | 580 F       |      | 66                             | 1471                 | -        | 88              | 969              | -              | 487                         | 150            | 16           | 77       | 3987            | -                 | 233                  | 4503    | -                | 1623           | 108 | 19 |
|  | JUNGFRAUJOCH       | 3580 P      |      | -64                            | 3222                 | -        | 122             | 1303             | -              | 729                         | 134            | 71           | -80      | 10192           | -                 | 365                  | 5346    | -                | 1933           | 108 | 78 |
|  | MOLESON            | 1972 G      |      | 29                             | 2030                 | -        | 114             | 1217             | -              | 779                         | 155            | -            | 19       | 6424            | -                 | 337                  | 4869    | -                | 1956           | 114 | -  |
| ⑨  | CHUR-EMS           | 555 F       |      | 72                             | 1399                 | -        | 87              | 1022             | -              | 584                         | 134            | 26           | 81       | 3838            | -                 | 228                  | 4551    | -                | 1789           | 116 | 30 |
|  | DAVOS              | 1590 A      |      | 23                             | 2157                 | -        | 121             | 1231             | -              | 663                         | 128            | 22           | 26       | 6088            | -                 | 325                  | 5192    | -                | 1879           | 113 | 25 |
|  | DISENTIS           | 1190 S      |      | 54                             | 1639                 | -        | 95              | 1137             | -              | 581                         | 138            | 10           | 56       | 4794            | -                 | 270                  | 4680    | -                | 1646           | 105 | 12 |
|  | HINTERRHEIN        | 1611 F      |      | 16                             | 2230                 | -        | 120             | 1018             | -              | 445                         | 143            | 29           | 20       | 6304            | -                 | 327                  | 4849    | -                | 1467           | 111 | 31 |
|  | WEISSFLUHOCH       | 2690 G      |      | -17                            | 2646                 | -        | 122             | 1288             | -              | 739                         | 123            | 38           | -30      | 8379            | -                 | 365                  | 5475    | -                | 2010           | 109 | 40 |
| ⑩  | GR. ST. BERNHARD   | 2472 P      |      | -1                             | 2453                 | -        | 122             | 1152             | -              | 537                         | 146            | 47           | -10      | 7604            | -                 | 360                  | 5289    | -                | 1652           | 113 | 52 |
|  | MONTANA/VERVALA    | 1508 S      |      | 53                             | 1650                 | -        | 96              | 1253             | -              | 792                         | 132            | 16           | 51       | 4965            | -                 | 275                  | 5288    | -                | 2265           | 112 | 19 |
|  | SION               | 462 F       |      | 70                             | 1425                 | -        | 84              | 1073             | -              | 642                         | 124            | 20           | 87       | 3627            | -                 | 210                  | 4887    | -                | 2149           | 107 | 24 |
|  | ULRICHEN           | 1345 F      |      | 19                             | 2145                 | -        | 113             | 1058             | -              | 565                         | 128            | 13           | 30       | 5837            | -                 | 301                  | 4750    | -                | 1731           | 104 | 17 |
|  | VISP               | 640 F       |      | 64                             | 1507                 | -        | 87              | 994              | -              | 536                         | 132            | 21           | 82       | 3786            | -                 | 216                  | 4882    | -                | 2026           | 108 | 31 |
|  | ZERMATT            | 1638 A      |      | 33                             | 1954                 | -        | 111             | 1161             | -              | 584                         | 122            | 17           | 37       | 5549            | -                 | 303                  | 4989    | -                | 1792           | 107 | 19 |
| ⑪  | CORVATSCHE         | 3315 G      |      | -47                            | 3012                 | -        | 122             | 1449             | -              | 811                         | 124            | 46           | -58      | 9389            | -                 | 365                  | 6248    | -                | 2230           | 107 | 46 |
|  | SAMEDAN-ST. MORITZ | 1705 F      |      | -5                             | 2501                 | -        | 122             | 1245             | -              | 656                         | 126            | 20           | 8        | 6789            | -                 | 333                  | 5263    | -                | 1917           | 108 | 24 |
|  | SCUOL              | 1298 S      |      | 35                             | 1843                 | -        | 98              | 1152             | -              | 616                         | 127            | 14           | 47       | 5074            | -                 | 273                  | 4931    | -                | 1911           | 109 | 16 |
| ⑫  | LOCARNO-MAGADINO   | 197 F       |      | 90                             | 1191                 | -        | 78              | 1053             | -              | 635                         | 111            | 16           | 106      | 3094            | -                 | 194                  | 4508    | -                | 2128           | 102 | 19 |
|  | LOCARNO-MONTI      | 366 S       |      | 106                            | 1001                 | -        | 71              | 1011             | -              | 640                         | 111            | 12           | 114      | 2812            | -                 | 187                  | 4560    | -                | 2132           | 101 | 15 |
|  | LUGANO             | 273 F       |      | 109                            | 985                  | -        | 72              | 945              | -              | 614                         | 114            | 15           | 117      | 2787            | -                 | 193                  | 3950    | -                | 2090           | 106 | 17 |
|  | PIOTTA             | 1007 F      |      | 67                             | 1427                 | -        | 84              | 897              | -              | 448                         | 127            | 24           | 73       | 4108            | -                 | 239                  | 4186    | -                | 1608           | 106 | 26 |
|  | POSCHIAVO/ROBBIA   | 1078 T      |      | 53                             | 1618                 | -        | 96              | 1030             | -              | 499                         | 116            | 17           | 64       | 4388            | -                 | 258                  | 4569    | -                | 1596           | 104 | 21 |
|  | SAN BERNARDINO     | 1639 T      |      | 29                             | 2027                 | -        | 113             | 1072             | -              | 540                         | 125            | 30           | 28       | 5999            | -                 | 325                  | 4593    | -                | 1529           | 102 | 31 |
|  | STABIO             | 353 F       |      | 85                             | 1234                 | -        | 78              | 973              | -              | 569                         | 122            | 9            | 97       | 3371            | -                 | 205                  | 4251    | -                | 1939           | 105 | 11 |

| Globalstrahlung $G_H$ | Summe % der Norm | MJ/m <sup>2</sup> % | Summe der Globalstrahlung (sichtbarer Bereich plus nahes Infrarot) auf eine horizontale Fläche Globalstrahlung ausgedrückt in Prozenten des mehrjährigen Mittelwertes (Mittelwert = 100%) [Mittelwertberechnung durch SMA]  |
|-----------------------|------------------|---------------------|---|
| Sonne SS              | Summe % der Norm | Std. %              | Stunden-Summe der Sonnenscheindauer für die entsprechende Zeitspanne. Als Sonnenschein wird eine direkte Strahlung $\geq 200 \text{ W/m}^2$ verstanden Stunden-Summe, ausgedrückt in Prozenten des mehrjährigen Mittelwertes (Mittelwert = 100%) [Mittelwertberechnung durch SMA] |
| Wind v                | Mittel           | 0,1 m/s             | Mittlere Windgeschwindigkeit für die entsprechende Zeitspanne. Messhöhe im allgemeinen 10 Meter über Grund  |