

**DEPARTMENT: PUBLIC ENTERPRISES**

**REPUBLIC OF SOUTH AFRICA**

**NATIONAL ASSEMBLY**

**QUESTION FOR WRITTEN REPLY**

**QUESTION NO.: PQ 2132**

**QUESTION:**

**2132. Ms B M van Minnen (DA) to ask the Minister of Public Enterprises:**

What is the

1. Daily electrical megawatt savings achieved through load shedding
2. In each province and
3. In each metro over the past 60 days of load shedding and
4. Total amount of accumulated man-hours which have been load shed
5. In each province and
6. In each metro over the past 60 days? NW2695E

**REPLY:**

**According to the information received from Eskom**

(a)(i) The estimated daily megawatts load shed in each Eskom operating unit (OU) is as set out in ***Annexure A***.

 Most of Eskom OUs are aligned to the provincial boundaries with the following exceptions:

1. Gauteng OU also includes most North West province
2. Limpopo OU includes the Rustenburg region of the North West province
3. Western Cape OU includes the Kalahari region of the Northern Cape province
4. Free State OU includes the Kimberley region of the Northern Cape province

(a)(ii) Daily megawatts load shed in each metro is to be sought from the metros.

(b) Eskom does not have a measurement of man-hours which have been load shed. On the assumption that the intention was to request information on the megawatt- hours (MWh) that have been load shed.

(b)(i) The estimated daily megawatt-hours load shed in each province is as set out in ***Annexure B***.

(b)(ii) The estimated daily megawatt-hours load shed is to be sought from the metros.

**Annexure A**

**Estimated megawatts load shed per Eskom Operating UnitPeriod: 1 July to 3 September 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **10-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00-20:00*** | ***20:00-22:00*** | ***22:00-00:00*** |
| **Western Cape** | N/A | N/A | 203 | 133 | 198 | 210 | 138 | 0 |
| **Gauteng** | N/A | N/A | 378 | 316 | 255 | 287 | 402 | 0 |
| **KwaZulu Natal** | N/A | N/A | 134 | 126 | 125 | 208 | 140 | 0 |
| **Free State** | N/A | N/A | 180 | 118 | 38 | 93 | 241 | 0 |
| **Limpopo** | N/A | 161 | 162 | 172 | 121 | 176 | 148 | 0 |
| **Eastern Cape** | N/A | 70 | 65 | 60 | 68 | 78 | 74 | 0 |
| **Mpumalanga** | N/A | 182 | 196 | 143 | 178 | 173 | 196 | 0 |
| **Total** | **N/A** | **412.29** | **1317** | **1069** | **982** | **1225** | **1338** | **0** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **11-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00-20:00*** | ***20:00-22:00*** | ***22:00 - 00:00*** |
| **Western Cape** | 152 | 110 | 210 | 109 | 206 | 138 | 188 | N/A |
| **Gauteng** | 314 | 339 | 429 | 343 | 354 | 346 | 488 | N/A |
| **KwaZulu Natal** | 127 | 116 | 168 | 103 | 123 | 153 | 147 | N/A |
| **Free State** | 122 | 210 | 86 | 175 | 68 | 149 | 191 | N/A |
| **Limpopo** | N/A | 164 | 153 | 129 | 162 | 168 | 158 | 95 |
| **Eastern Cape** | N/A | 59 | 67 | 53 | 40 | 56 | 57 | 60 |
| **Mpumalanga** | N/A | 158 | 156 | 181 | 207 | 154 | 182 | 196 |
| **Total** | **715** | **1156** | **1268** | **1093** | **1160** | **1163** | **1411** | **350** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **12-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00 - 20:00*** | ***20:00-22:00*** | ***22:00-00:00*** |
| **Western Cape** | 102 | 185 | 239 | 344 | 109 | 122 | 249 | N/A |
| **Gauteng** | 298 | 337 | 396 | 298 | 376 | 405 | 293 | N/A |
| **KwaZulu Natal** | 215 | 138 | 176 | 147 | 218 | 138 | 100 | N/A |
| **Free State** | 63 | 160 | 101 | 154 | 89 | 238 | 52 | N/A |
| **Limpopo** | 98 | 114 | 159 | 151 | 131 | 169 | 130 | 63 |
| **Eastern Cape** | 56 | 72 | 74 | 64 | 37 | 55 | 67 | 30 |
| **Mpumalanga** | N/A | 182 | 147 | 181 | 189 | 158 | 156 | 181 |
| **Total** | **832** | **1187** | **1291** | **1339** | **1149** | **1284** | **1047** | **274** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **13-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00-20:00*** | ***20:00-22:00*** | ***22:00-00:00*** |
| **Western Cape** | 131 | 118 | 162 | 134 | 90 | 110 | 175 | N/A |
| **Gauteng** | 274 | 347 | 349 | 353 | 350 | 332 | 324 | 327 |
| **KwaZulu Natal** | 120 | 113 | 108 | 129 | 86 | 145 | 128 | N/A |
| **Free State** | 88 | 236 | 142 | 75 | 161 | 152 | 180 | N/A |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **13-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00-20:00*** | ***20:00-22:00*** | ***22:00-00:00*** |
| **Limpopo** | N/A | 164 | 148 | 152 | 120 | 159 | 117 | 140 |
| **Eastern Cape** | N/A | 84 | 88 | 60 | 49 | 78 | 84 | 37 |
| **Mpumalanga** | N/A | 173 | 196 | 126 | 182 | 147 | 181 | 189 |
| **Total** | **613** | **1235** | **1191** | **1028** | **1039** | **1122** | **1189** | **694** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **14-Jul-20** |  |  |  |  |  |  |  |
|   | **08:00-10:00** | **10:00-12:00** | **12:00-14:00** | **14:00-16:00** | **16:00-18:00** | **18:00-20:00** | **20:00-22:00** | **22:00-00:00** |
| **Western Cape** | 130 | 185 | 123 | 203 | 208 | 177 | 172 | N/A |
| **Gauteng** | 375 | 441 | 571 | 490 | 314 | 387 | 285 | 216 |
| **KwaZulu Natal** | 107 | 128 | 112 | 121 | 144 | 142 | 165 | N/A |
| **Free State** | 151 | 205 | 140 | 56 | 100 | 260 | 147 | N/A |
| **Limpopo** | N/A | 158 | 162 | 161 | 121 | 176 | 148 | 152 |
| **Eastern Cape** | N/A | 70 | 82 | 64 | 74 | 98 | 97 | 50 |
| **Mpumalanga** | N/A | 182 | 196 | 143 | 178 | 173 | 196 | 126 |
| **Total** | **763** | **1368** | **1386** | **1237** | **1138** | **1413** | **1210** | **543** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **15-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00-20:00*** | ***20:00-22:00*** | ***22:00-00:00*** |
| **Western Cape** | 37 | 96 | 78 | 226 | 132 | 215 | 115 | N/A |
| **Gauteng** | 421 | 495 | 312 | 208 | 309 | 395 | 306 | 336 |
| **KwaZulu Natal** | 41 | 66 | 54 | 134 | 158 | 206 | 152 | N/A |
| **Free State** | 117 | 36 | 40 | 50 | 161 | 225 | 120 | N/A |
| **Limpopo** | N/A | 78 | 63 | 161 | 166 | 158 | 162 | 172 |
| **Eastern Cape** | N/A | 38 | 19 | 45 | 65 | 80 | 89 | 56 |
| **Mpumalanga** | N/A | 162 | 187 | 213 | 154 | 182 | 196 | 143 |
| **Total** | **617** | **971** | **753** | **1037** | **1145** | **1460** | **1141** | **708** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **16-Jul-20** |  |  |  |  |  |  |  |
|   | ***08:00-10:00*** | ***10:00-12:00*** | ***12:00-14:00*** | ***14:00-16:00*** | ***16:00-18:00*** | ***18:00-20:00*** | ***20:00-22:00*** | ***22:00-00:00*** |
| **Western Cape** | 102 | 107 | 64 | 167 | 92 | 273 | 138 | N/A |
| **Gauteng** | 0 | 163 | 233 | 204 | 120 | 391 | 204 | 363 |
| **KwaZulu Natal** | 93 | 97 | 62 | 144 | 106 | 212 | N/A | N/A |
| **Free State** | 0 | 85 | 134 | 80 | 231 | 108 | 154 | N/A |
| **Limpopo** | N/A | 78 | 64 | 141 | 158 | 153 | 71 | N/A |
| **Eastern Cape** | N/A | 42 | 43 | 37 | 52 | 78 | 62 | N/A |
| **Mpumalanga** | N/A | 147 | 181 | 189 | 158 | 156 | 181 | N/A |
| **Total** | **195** | **718** | **781** | **960** | **917** | **1369** | **809** | **363** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **13-Aug-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00-20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | 165 | 160 | 189 | 140 | 92 | 222 | 143 | N/A |
| **Gauteng** | 287 | 289 | 327 | 335 | 351 | 361 | 459 | N/A |
| **KwaZulu Natal** | 126 | 110 | 110 | 138 | 83 | 102 | 112 | N/A |
| **Free State** | 77 | 223 | 136 | 105 | 149 | 141 | 175 | N/A |
| **Limpopo** | 122 | 176 | 148 | 143 | 114 | 159 | 151 | 141 |
| **Eastern Cape** | 76 | 87 | 95 | 65 | 67 | 65 | 88 | 38 |
| **Mpumalanga** | N/A | 173 | 196 | 126 | 182 | 147 | 181 | 189 |
| **Total** | **852** | **1217** | **1201** | **1052** | **1037** | **1197** | **1310** | **368** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **14-Aug-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00-20:00 | 20:00-22:00 | 22:00 - 00:00 |
| **Western Cape** | 165 | 160 | 113 | 157 | 113 | 63 | 76 | N/A |
| **Gauteng** | 354 | 363 | 488 | 492 | 327 | 347 | 191 | N/A |
| **KwaZulu Natal** | 128 | 127 | 135 | 106 | 180 | 79 | N/A | N/A |
| **Free State** | 124 | 185 | 103 | 37 | 83 | 150 | 7 | N/A |
| **Limpopo** | 173 | 158 | 162 | 158 | 122 | 83 | 89 | N/A |
| **Eastern Cape** | 76 | 87 | 95 | 65 | 67 | 65 | 88 | 38 |
| **Mpumalanga** | 154 | 182 | 196 | 143 | 178 | 173 | 196 | 126 |
|  | **1174** | **1261** | **1291** | **1159** | **1070** | **960** | **646** | **164** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **18-Aug-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00 - 20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | N/A | N/A | N/A | N/A | 136 | 204 | 132 | N/A |
| **Gauteng** | N/A | N/A | N/A | N/A | 402 | 477 | 312 | N/A |
| **KwaZulu Natal** | N/A | N/A | N/A | N/A | 166 | 169 | 139 | N/A |
| **Free State** | N/A | N/A | N/A | N/A | 221 | 147 | 98 | N/A |
| **Limpopo** | N/A | N/A | N/A | N/A | 169 | 148 | 152 | 120 |
| **Eastern Cape** | N/A | N/A | N/A | N/A | 91 | 111 | 84 | 60 |
| **Mpumalanga** | N/A | N/A | N/A | N/A | 173 | 196 | 126 | 182 |
|  | N/A | N/A | N/A | N/A | 1358 | 1452 | 1042 | 362 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **19-Aug-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00-20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | 189 | 66 | 158 | 93 | 187 | 133 | 164 | N/A |
| **Gauteng** | 306 | 383 | 374 | 355 | 494 | 571 | 309 | N/A |
| **KwaZulu Natal** | 111 | 79 | 119 | 112 | 141 | 157 | 178 | N/A |
| **Free State** | 81 | 169 | 70 | 142 | 192 | 148 | 54 | N/A |
| **Limpopo** | N/A | 158 | 161 | 173 | 150 | 157 | 172 | 122 |
| **Eastern Cape** | N/A | 47 | 51 | 63 | 68 | 83 | 98 | 63 |
| **Mpumalanga** | 156 | 181 | 207 | 154 | 182 | 196 | 143 | 178 |
|  | **843** | **1082** | **1139** | **1091** | **1413** | **1444** | **1119** | **362** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **20-Aug-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00-20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | 163 | 195 | 192.4 | 101 | 228 | 149 | 249 | N/A |
| **Gauteng** | 405 | 305 | 396 | 421 | 224 | 138 | 300 | N/A |
| **KwaZulu Natal** | 97 | 89 | 130 | 96 | 152 | 115 | 151 | N/A |
| **Free State** | 115 | 173 | 116 | 211 | 106 | 175 | 77 | N/A |
| **Limpopo** | N/A | 131 | 141 | 172 | 153 | 158 | 161 | 173 |
| **Eastern Cape** | N/A | 65 | 39 | 60 | 70 | 44 | 63 | 61 |
| **Mpumalanga** | 147 | 181 | 189 | 164 | 156 | 181 | 207 | 154 |
| **Total** | **927** | **1139** | **1204** | **1226** | **1088** | **959** | **1207** | **388** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **01-Sep-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00-20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | 101 | 182.6 | 204 | 234 | 311 | 413 | 373 | N/A |
| **Gauteng** | 292 | 292 | 309 | 309 | 941 | 941 | 817 | N/A |
| **KwaZulu Natal** | 166 | 133 | 168 | 171 | 334 | 299 | 394 | N/A |
| **Free State** | 89 | 79 | 186 | 280 | 355 | 335 | 328 | N/A |
| **Limpopo** | 153 | 158 | 133 | 173 | 317 | 296 | 309 | 280 |
| **Eastern Cape** | 66 | 44 | 30 | 67 | 112 | 132 | 122 | 114 |
| **Mpumalanga** | 161.55 | 187 | 213 | 160 | 346 | 394 | 350 | 360 |
|  | **1028** | **1076** | **1241** | **1393** | **2716** | **2810** | **2693** | **754** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **02-Sep-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00 - 20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | 101 | 183 | 204 | 234 | 311 | 413 | 373 | N/A |
| **Gauteng** | 292 | 292 | 309 | 309 | 941 | 941 | 817 | N/A |
| **KwaZulu Natal** | 166 | 133 | 168 | 171 | 334 | 299 | 394 | N/A |
| **Free State** | 89 | 79 | 186 | 280 | 355 | 335 | 328 | N/A |
| **Limpopo** | 153 | 158 | 133 | 173 | 317 | 296 | 309 | 280 |
| **Eastern Cape** | 66 | 44 | 30 | 67 | 112 | 132 | 122 | 114 |
| **Mpumalanga** | 162 | 187 | 213 | 160 | 346 | 394 | 350 | 360 |
| **Total** | **1028** | **1076** | **1241** | **1393** | **2716** | **2810** | **2693** | **754** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **03-Sep-20** |  |  |  |  |  |  |  |
|   | 08:00-10:00 | 10:00-12:00 | 12:00-14:00 | 14:00-16:00 | 16:00-18:00 | 18:00-20:00 | 20:00-22:00 | 22:00-00:00 |
| **Western Cape** | 332 | 355 | 389 | 203 | 359 | 458 | 351 | N/A |
| **Gauteng** | 864 | 981 | 871 | 857 | 607 | 724 | 688 | N/A |
| **KwaZulu Natal** | 293 | 266 | 344 | 326 | 254 | 256 | 271 | N/A |
| **Free State** | 302 | 287 | 262 | 343 | 328 | 271 | 292 | N/A |
| **Limpopo** | 290 | 248 | 269 | 283 | 297 | 253 | 283 | 283 |
| **Eastern Cape** | 107 | 133 | 99 | 120 | 110 | 139 | N/A | N/A |
| **Mpumalanga** | 346 | 394 | 350 | 360 | 347 | 394 | 350 | 354 |
| **Total** | **2534** | **2664** | **2583** | **2491** | **2302** | **2495** | **2235** | **636** |

**Annexure B**

**Estimated megawatt-hours per Eskom Operating UnitPeriod: 1 July to 3 September 2020**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date | Western Cape | Gauteng | Kwazulu Natal | Free State | Limpopo | Eastern Cape | Mpumalanga | TOTAL | Stages |
|
| Fri 10-Jul-2020 | 1764 | 3275 | 1466 | 1341 | 830 | 830 | 2134 | 11 639  | Stage 2  |
| Sat 11-Jul-2020 | 2226 | 5225 | 1875 | 2000 | 2058 | 783 | 2465 | 16 633  | Stage 2 |
| Sun 12-Jul-2020 | 2700 | 4805 | 2264 | 1714 | 2026 | 911 | 2388 | 16 808  | Stage 2 |
| Mon 13-Jul-2020 | 1840 | 5312 | 1658 | 2068 | 1998 | 959 | 2387 | 16 222  | Stage 2 |
| Tue 14-Jul-2020 | 2396 | 6158 | 1834 | 2118 | 2153 | 1069 | 2385 | 18 114  | Stage 2 |
| Wed 15-Jul-2020 | 1798 | 5564 | 1624 | 1499 | 1921 | 786 | 2471 | 15 663  | Stage 1/2 |
| Thu 16-Jul-2020 | 1886 | 3356 | 1427 | 1580 | 1327 | 626 | 2024 | 12 227  | Stage 1/2 |
| Thu 13-Aug-2020 | 2222 | 4818 | 1562 | 2014 | 2304 | 1161 | 2387 | 16 468  | Stage 2 |
| Fri 14-Aug-2020 | 1694 | 5128 | 1508 | 1377 | 1888 | 1161 | 2692 | 15 448 | Stage 2 |
| Tue 18-Aug-2020 | 944 | 2383 | 948 | 933 | 1176 | 691 | 2749 | 9 825  | Stage 2 |
| Wed 19-Aug-2020 | 1980 | 5585 | 1791 | 1712 | 2186 | 943 | 2790 | 16 988  | Stage 2 |
| Thu 20-Aug-2020 | 2555 | 4377 | 1657 | 1947 | 2178 | 804 | 2757 | 16 275  | Stage 2 |
| Tue 01-Sep-2020 | 1884 | 2962 | 1337 | 1180 | 1665 | 809 | 2066 | 11 903  | Stage 2 |
| Wed 02-Sep-2020 | 3636 | 7802 | 3330 | 3304 | 3637 | 1372 | 4344 | 27 425  | Stage 2/4 |
| Thu 03-Sep-2020 | 4894 | 11183 | 4020 | 4170 | 4408 | 1414 | 5791 | 35 880  | Stage 4 |

**Additional Information**

An overview of the days were load shedding was implemented and the corresponding stages between 1 July to 3 September 2020 is as set out in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Load shedding Stage | Date | Load shedding Stage |
| 10-Jul-20 | Stage 2  | 14-Aug-20 | Stage 2 |
| 11-Jul-20 | Stage 2 | 18-Aug-20 | Stage 2 |
| 12-Jul-20 | Stage 2 | 19-Aug-20 | Stage 2 |
| 13-Jul-20 | Stage 2 | 20-Aug-20 | Stage 2 |
| 14-Jul-20 | Stage 2 | 01-Sep-20 | Stage 2 |
| 15-Jul-20 | Stage 1 / 2 | 02-Sep-20 | Stage 2 /4 |
| 16-Jul-20 | Stage 1 / 2 | 03-Sep-20 | Stage 4 |
| 13-Aug-20 | Stage 2 |  |  |