# ADMINISTRADOR DEL MERCADO MAYORISTA

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**PROGRAMA DE DESPACHO**

DOMINGO 3 DE FEBRERO DE 2002

**LAGUNA GAS:** RESTRICCIÓN SISTEMA PRINCIPAL DE TRANSMISION

**ESCUINTLA GAS:** RESTRICCION SISTEMA PRINCIPAL TRANSMISION

**QUIXAL:** ENERGIA MAXIMA SEGÚN PROGRAMA.

**LA UNION, PANTALEÓN, MAGDALENA, MADRE TIERRA, SANTA ANA:** POR COMPROMISOS CONTRACTUALES EN ZAFRA

Intercambio

**REGULACION PRIMARIA:** LOS GENERADORES DEBEN MANTENER COMO RESERVA REGULANTE UN 3% DE LA POTENCIA GENERADA

| | | HIDRO | | | | | | | | | | | CT ESCUINTLA | | | GEO | | LAGUNA | | | | LAS PALMAS | | | | | | | | | | | | | | | | | | | | | | GEN | DEM | DEM | % | TOTAL | Asignación de la reserva operativa (MW) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CHX | AGU | JUR | LES | SMA | POR | M | RBO | SEC | PAS | PVE | G3 | G5 | EVAP | ORZ | CAL | LVAP | TG1 | TG2 | TG4 | W1 | W2 | W3 | W4 | W5 | GAS | PNT | CON | MAG | LUN | MTI | SAA | TUL | TDL | SJO | ENR | ESP | TAM | SID1 | SID2 | GEN | SNI | INT | SNI | RESERVA OPERATIVA | RESERVA OPERATIVA MW | | | |
| POT. MAX. | | 275 | 80 | 60 | 14 | 6 | 2 | 2 | 10 | 15 | 12 | 8 | 44 | 30 | 35 | 24 | 5 | 24 | 10 | 17 | 27 | 15.4 | 15.4 | 15.4 | 15.4 | 5 | 24 | 39.5 | 25.0 | 21.0 | 30.0 | 20.0 | 35.0 | 12.5 | 15 | 127 | 114 | 124 | 80 | 18 | 18 | 42.4 | 1512 | | | | | | | |
| POT. DISP. | | 220 | 60 | 60 | 14 | 3.3 | 2 | 2.3 | 10 | 9.7 | 12 | 2.4 | 22 | 16 | 0 | 16.2 | 0 | 22 | 10 | 17 | 27 | 15.4 | 15.4 | 15.4 | 15.4 | 5 | 24 | 39.5 | 25.0 | 21.0 | 30 | 18 | 35 | 10 | 15 | 123 | 114 | 106.2 | 80 | 14.4 | 18 | 42.4 | 1308 | | | | | | | |
| ENERGIA | | 3100 | 472 | 245 | 56 | 79 | 41 | 20 | 146 | 233 | 94 | 56 | 0 | 0 | 0 | 389 | 0 | 0 | 107 | 0 | 0 | 358 | 358 | 358 | 358 | 118 | 0 | 699 | 582 | 326 | 653 | 267 | 559 | 233 | 0 | 2866 | 164 | 853 | 0 | 0 | 0 | 276 | 14064 | 741 | 13323 | | | | | |
| DE | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | CHX | AGU | JUR |
| 00:01 | 01:00 | 85.8 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 29.0 | R | R | R | 10.3 | 483.8 | 29.0 | 454.8 | 0.04 | 19.4 | 19.4 | 0.0 | 0.0 |
| 01:01 | 02:00 | 77.7 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 29.0 | R | R | R | 10.3 | 475.7 | 34.0 | 441.7 | 0.04 | 19.0 | 19.0 | 0.0 | 0.0 |
| 02:01 | 03:00 | 63.0 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 29.0 | R | R | R | 10.3 | 461.0 | 34.0 | 427.0 | 0.04 | 18.4 | 18.4 | 0.0 | 0.0 |
| 03:01 | 04:00 | 87.0 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 29.0 | R | R | R | 10.3 | 485.0 | 45.0 | 440.0 | 0.04 | 19.4 | 19.4 | 0.0 | 0.0 |
| 04:01 | 05:00 | 86.6 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 475.2 | 25.0 | 450.2 | 0.04 | 19.0 | 19.0 | 0.0 | 0.0 |
| 05:01 | 06:00 | 130.5 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 519.1 | 33.0 | 486.1 | 0.04 | 20.8 | 20.8 | 0.0 | 0.0 |
| 06:01 | 07:00 | 131.6 | LL | LL | LL | 3.3 | 1.6 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 529.9 | 34.0 | 495.9 | 0.03 | 15.9 | 15.9 | 0.0 | 0.0 |
| 07:01 | 08:00 | 132.8 | 22.0 | LL | LL | 3.3 | 1.6 | 2.0 | 4.0 | 9.7 | 1.5 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 555.2 | 24.0 | 531.2 | 0.03 | 16.7 | 16.7 | 0.0 | 0.0 |
| 08:01 | 09:00 | 162.2 | 22.0 | LL | LL | 3.3 | 1.6 | 2.0 | 4.0 | 9.7 | 1.5 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 34.2 | R | R | R | 10.3 | 599.2 | 24.0 | 575.2 | 0.03 | 18.0 | 6.6 | 7.0 | 4.4 |
| 09:01 | 10:00 | 137.0 | 22.0 | 15.0 | LL | 3.3 | 1.6 | 2.0 | 6.5 | 9.7 | 1.5 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 34.2 | R | R | R | 10.3 | 591.5 | 22.0 | 569.5 | 0.03 | 17.7 | 6.3 | 7.0 | 4.4 |
| 10:01 | 11:00 | 114.0 | 22.0 | 25.0 | 6.8 | 3.3 | 1.6 | 2.0 | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 34.2 | R | R | R | 10.3 | 586.2 | 22.0 | 564.2 | 0.03 | 17.6 | 6.2 | 7.0 | 4.4 |
| 11:01 | 12:00 | 115.4 | 22.0 | 25.0 | 6.8 | 3.3 | 1.6 | 2.0 | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 573.0 | 22.0 | 551.0 | 0.03 | 17.2 | 5.8 | 7.0 | 4.4 |
| 12:01 | 13:00 | 117.1 | 22.0 | 15.0 | LL | 3.3 | 1.6 | 2.0 | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 557.9 | 22.0 | 535.9 | 0.03 | 16.7 | 5.3 | 7.0 | 4.4 |
| 13:01 | 14:00 | 123.3 | 22.0 | 10.0 | LL | 3.3 | 1.6 | LL | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 557.1 | 22.0 | 535.1 | 0.03 | 16.7 | 9.7 | 7.0 | 0.0 |
| 14:01 | 15:00 | 125.8 | 31.5 | LL | LL | 3.3 | 1.6 | LL | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 559.1 | 22.0 | 537.1 | 0.03 | 16.8 | 9.8 | 7.0 | 0.0 |
| 15:01 | 16:00 | 117.8 | 22.0 | LL | LL | 3.3 | 1.6 | LL | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 541.6 | 22.0 | 519.6 | 0.03 | 16.2 | 9.2 | 7.0 | 0.0 |
| 16:01 | 17:00 | 115.2 | 22.0 | LL | LL | 3.3 | 1.6 | LL | 6.5 | 9.7 | 2.4 | 2.4 | R | R | IN | 16.2 | IN | RF | 9.7 | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 19.6 | R | R | R | 10.3 | 539.0 | 22.0 | 517.0 | 0.03 | 16.2 | 9.2 | 7.0 | 0.0 |
| 17:01 | 18:00 | 196.9 | 22.0 | LL | LL | 3.3 | 1.9 | LL | 6.5 | 9.7 | 11.9 | 2.4 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 9.0 | 23.3 | 9.7 | R | 119.4 | R | 46.6 | R | R | R | 10.3 | 647.8 | 22.0 | 625.8 | 0.03 | 19.4 | 12.4 | 7.0 | 0.0 |
| 18:01 | 18:15 | 171.7 | 55.2 | LL | 6.8 | 3.3 | 1.9 | LL | 6.5 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | R | 103.0 | R | R | R | 10.3 | 727.4 | 38.0 | 689.4 | 0.02 | 14.5 | 11.5 | 3.0 | 0.0 |
| 18:16 | 18:30 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 16.6 | 103.1 | R | R | R | 20.6 | 849.9 | 38.0 | 811.9 | 0.02 | 17.0 | 11.0 | 3.0 | 3.0 |
| 18:31 | 18:45 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 62.1 | 103.1 | R | R | R | 20.6 | 895.4 | 38.0 | 857.4 | 0.02 | 17.9 | 11.9 | 3.0 | 3.0 |
| 18:46 | 19:00 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 63.5 | 103.1 | R | R | R | 20.6 | 896.8 | 38.0 | 858.8 | 0.02 | 17.9 | 11.9 | 3.0 | 3.0 |
| 19:01 | 19:15 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 105.9 | 103.1 | R | R | R | 20.6 | 939.2 | 42.0 | 897.2 | 0.02 | 18.8 | 12.8 | 3.0 | 3.0 |
| 19:16 | 19:30 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 96.0 | 103.1 | R | R | R | 20.6 | 929.3 | 42.0 | 887.3 | 0.02 | 18.6 | 12.6 | 3.0 | 3.0 |
| 19:31 | 19:45 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 73.5 | 103.1 | R | R | R | 20.6 | 906.8 | 42.0 | 864.8 | 0.02 | 18.1 | 12.1 | 3.0 | 3.0 |
| 19:46 | 20:00 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 73.2 | 103.1 | R | R | R | 20.6 | 906.5 | 42.0 | 864.5 | 0.02 | 18.1 | 12.1 | 3.0 | 3.0 |
| 20:01 | 20:15 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 72.1 | 103.1 | R | R | R | 20.6 | 905.4 | 51.0 | 854.4 | 0.02 | 18.1 | 12.1 | 3.0 | 3.0 |
| 20:16 | 20:30 | 200.0 | 55.2 | 55.2 | 13.6 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 46.0 | 103.1 | R | R | R | 20.6 | 879.3 | 51.0 | 828.3 | 0.02 | 17.6 | 11.6 | 3.0 | 3.0 |
| 20:31 | 20:45 | 200.0 | 55.2 | 55.2 | 6.8 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | 48.4 | 103.1 | R | R | R | 20.6 | 874.9 | 51.0 | 823.9 | 0.02 | 17.5 | 11.5 | 3.0 | 3.0 |
| 20:46 | 21:00 | 200.0 | 55.2 | 55.2 | 6.8 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | R | 103.1 | R | R | R | 20.6 | 826.5 | 51.0 | 775.5 | 0.02 | 16.5 | 10.5 | 3.0 | 3.0 |
| 21:01 | 22:00 | 200.0 | 55.2 | 3.4 | 6.8 | 3.3 | 1.9 | 2.0 | 9.7 | 9.7 | 11.9 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | R | 32.8 | R | R | R | 10.3 | 694.1 | 48.0 | 646.1 | 0.02 | 13.9 | 13.9 | 0.0 | 0.0 |
| 22:01 | 23:00 | 107.5 | LL | LL | LL | 3.3 | 1.9 | LL | 9.7 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | R | 32.8 | R | R | R | 10.3 | 523.8 | 50.0 | 473.8 | 0.04 | 21.0 | 21.0 | 0.0 | 0.0 |
| 23:01 | 24:00 | 80.0 | LL | LL | LL | 3.3 | 1.9 | LL | 4.0 | 9.7 | 1.5 | 2.3 | R | R | IN | 16.2 | IN | RF | R | R | R | 14.9 | 14.9 | 14.9 | 14.9 | 4.9 | R | 29.1 | 24.3 | 13.6 | 27.2 | 17.5 | 23.3 | 9.7 | R | 119.4 | R | 16.8 | R | R | R | 10.3 | 474.6 | 32.0 | 442.6 | 0.04 | 19.0 | 19.0 | 0.0 | 0.0 |

OBSERVACIONES: M=MANTENIMIENTO, LL=LLENANDO, R=RESERVA, IN=INDISPONIBLE, SIN=SIN INFORMACION, RF=RESERVA FRIA

SOMBREADO: GENERACION FORZADA

**MANTENIMIENTO PROGRAMADO:**

| | | | | |
|---|---|---|---|---|
| ESPERANZA UNA UNIDAD | 0.0 | A | 3.0 | HORAS |
| CHIXOY 5 | 0.0 | A | 24.0 | HORAS |
| JURUN | 6.0 | A | 8.0 | HORAS |
| POLIWA 7 | 7.0 | A | 17.0 | HORAS |

**INDISPONIBILIDAD FORZADA:**

| | | | | |
|---|---|---|---|---|
| ESCUINTLA GAS 2,4, 5B, | 0.0 | A | 24.0 | HORAS |
| AGUACAPA 1 | 0.0 | A | 24.0 | HORAS |
| SIDEGUA UN. 1 Y 4 | 0.0 | A | 24.0 | HORAS |
| POLIWATT 1 | 0.0 | A | 24.0 | HORAS |
| ESCUINTLA VAP 2 PARCIALMENTE | 0.0 | A | 24.0 | HORAS |
| POLIWATT 5 | 11.0 | A | 17.0 | HORAS |

Hora: 9:19

**MANUEL MEDINA**

OPERACIÓN EN TIEMPO REAL