

**CUADRO 8**  
**PLAN DE EXPANSIÓN DE GENERACIÓN**  
2008 - 2022

| ADICIÓN DE PLANTAS AL SISTEMA (MW) |                 |             |              |             |            |          |            |           |            |            |            |            |            |            |            |          |
|------------------------------------|-----------------|-------------|--------------|-------------|------------|----------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|----------|
| PLANTA                             | Combustible     | 2008        | 2009         | 2010        | 2011       | 2012     | 2013       | 2014      | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021       | 2022     |
| Alsthom                            | Búnker / Carbón |             | 27.0         |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Sulzer                             | Búnker / Carbón |             | 28.0         |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Ampliación de Enersa               | Búnker          |             | 30.0         |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Coronado                           | Mini hidro      | 6.0         |              |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Peña Blanca                        | Mini hidro      | 0.9         |              |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Ecopalsa biomasa                   | Biomasa         | 3.2         |              |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Maquilas (Quimistán y Naco)        | Carbón          | 8           | 11           |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Envasa                             | Carbón          |             | 33           |             | 67         |          |            |           |            |            |            |            |            |            |            |          |
| Cecsa                              | Búnker / Carbón |             | 50           |             | 100        |          |            |           |            |            |            |            |            |            |            |          |
| Mangungo I                         | Mini hidro      |             | 1.2          |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Mangungo II                        | Mini hidro      |             | 1.3          |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Matarrás I                         | Mini hidro      |             | 1.0          |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Matarrás II                        | Mini hidro      |             | 2.3          |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Ecoenergy                          | Biomasa         |             | 10.8         |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Ecopalsa Biogás (II etapa)         | Biogás          |             | 0.8          |             |            |          |            |           |            |            |            |            |            |            |            |          |
| Santa Elena                        | Mini hidro      |             |              | 1.6         |            |          |            |           |            |            |            |            |            |            |            |          |
| Mezapa Leán                        | Mini hidro      |             |              | 9.4         |            |          |            |           |            |            |            |            |            |            |            |          |
| Ojo de Agua                        | Mini hidro      |             |              | 17.2        |            |          |            |           |            |            |            |            |            |            |            |          |
| Masca I                            | Mini hidro      |             |              | 1.7         |            |          |            |           |            |            |            |            |            |            |            |          |
| Masca II                           | Mini hidro      |             |              | 1.0         |            |          |            |           |            |            |            |            |            |            |            |          |
| Bioenergy                          | Biomasa         |             |              |             | 110        |          |            |           |            |            |            |            |            |            |            |          |
| Eólico                             | Eólico          |             |              |             | 100        |          |            |           |            |            |            |            |            |            |            |          |
| Motores diesel media vel.          | Búnker          |             |              |             |            |          |            |           |            |            |            | 500        |            |            |            |          |
| Planta carbón (PFBC) <sup>1</sup>  | Carbón          |             |              |             |            |          | 200        |           |            |            | 100        |            | 300        |            | 200        |          |
| Tablón                             | Hidro           |             |              |             |            |          |            | 20        |            |            |            |            |            |            |            |          |
| Piedras Amarillas                  | Hidro           |             |              |             |            |          |            |           | 100        |            |            |            |            |            |            |          |
| Tornillito                         | Hidro           |             |              |             |            |          |            |           | 160        |            |            |            |            |            |            |          |
| Llanitos                           | Hidro           |             |              |             |            |          |            |           | 98         |            |            |            |            |            |            |          |
| Jicatuyo                           | Hidro           |             |              |             |            |          |            |           |            | 173        |            |            |            |            |            |          |
| Valencia                           | Hidro           |             |              |             |            |          |            |           |            |            |            |            |            | 270        |            |          |
| <b>TOTAL</b>                       |                 | <b>18.1</b> | <b>196.7</b> | <b>30.9</b> | <b>377</b> | <b>0</b> | <b>200</b> | <b>20</b> | <b>358</b> | <b>173</b> | <b>100</b> | <b>500</b> | <b>300</b> | <b>270</b> | <b>200</b> | <b>0</b> |

| RETIRO DE PLANTAS (MW) |             |          |           |              |          |          |          |          |           |          |          |            |            |          |          |          |
|------------------------|-------------|----------|-----------|--------------|----------|----------|----------|----------|-----------|----------|----------|------------|------------|----------|----------|----------|
| PLANTA                 | Combustible | 2008     | 2009      | 2010         | 2011     | 2012     | 2013     | 2014     | 2015      | 2016     | 2017     | 2018       | 2019       | 2020     | 2021     | 2022     |
| Green Valley           | Búnker      |          | 10        |              |          |          |          |          |           |          |          |            |            |          |          |          |
| Santa Fe               | Diesel      |          | 5         |              |          |          |          |          |           |          |          |            |            |          |          |          |
| Ceiba                  | Búnker      |          |           | 26.6         |          |          |          |          |           |          |          |            |            |          |          |          |
| Eloosa                 | Búnker      |          |           | 80.0         |          |          |          |          |           |          |          |            |            |          |          |          |
| Lufussa 1              | Diesel      |          |           | 40.0         |          |          |          |          |           |          |          |            |            |          |          |          |
| Nacional de Ingenieros | Diesel      |          | 20        |              |          |          |          |          |           |          |          |            |            |          |          |          |
| La Puerta Hitachi      | Diesel      |          |           |              |          |          |          |          | 18        |          |          |            |            |          |          |          |
| La Puerta General      | Diesel      |          |           |              |          |          |          |          | 15        |          |          |            |            |          |          |          |
| Lufussa 3              | Búnker      |          |           |              |          |          |          |          |           |          |          | 210.0      |            |          |          |          |
| Enersa                 | Búnker      |          |           |              |          |          |          |          |           |          |          | 200.0      |            |          |          |          |
| Emce 2                 | Búnker      |          |           |              |          |          |          |          |           |          |          |            | 60.0       |          |          |          |
| Lufussa 2              | Búnker      |          |           |              |          |          |          |          |           |          |          |            | 80.0       |          |          |          |
| <b>TOTAL</b>           |             | <b>0</b> | <b>35</b> | <b>146.6</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>33</b> | <b>0</b> | <b>0</b> | <b>410</b> | <b>140</b> | <b>0</b> | <b>0</b> | <b>0</b> |

|                          |              |              |               |              |              |              |              |              |              |              |              |              |              |              |              |
|--------------------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>ADICIÓN NETA (MW)</b> | <b>18.1</b>  | <b>161.7</b> | <b>-115.7</b> | <b>377</b>   | <b>0</b>     | <b>200</b>   | <b>20</b>    | <b>325</b>   | <b>173</b>   | <b>100</b>   | <b>90</b>    | <b>160</b>   | <b>270</b>   | <b>200</b>   | <b>0</b>     |
| <b>INSTALADO (MW)</b>    | <b>1,537</b> | <b>1,699</b> | <b>1,584</b>  | <b>1,960</b> | <b>1,960</b> | <b>2,160</b> | <b>2,180</b> | <b>2,505</b> | <b>2,678</b> | <b>2,778</b> | <b>2,868</b> | <b>3,028</b> | <b>3,298</b> | <b>3,498</b> | <b>3,498</b> |

NOTAS

1) PFBC significa turbina de vapor con cámara de combustión presurizada