



**Ministerio de Minas y Energía MME**

**Unidad de Planeación Minero Energética UPME**

**Subdirección de Energía Eléctrica**

**Informe de Registro de Proyectos de Generación**  
(corte a mayo 31 de 2024)

**Inscripción según**  
**requisitos de las Resoluciones**  
**UPME No. 0520, No. 0638 de 2007 y No. 0143 de 2016**

Informe de  
**REGISTRO DE PROYECTOS DE GENERACIÓN**

Inscripción según los requisitos de las Resoluciones **UPME**

No. 0520 de 2007

No. 0638 de 2007

No. 0143 de 2016

**República de Colombia**

Ministerio de Minas y Energía

Unidad de Planeación Minero Energética

**Ministro de Minas y Energía**

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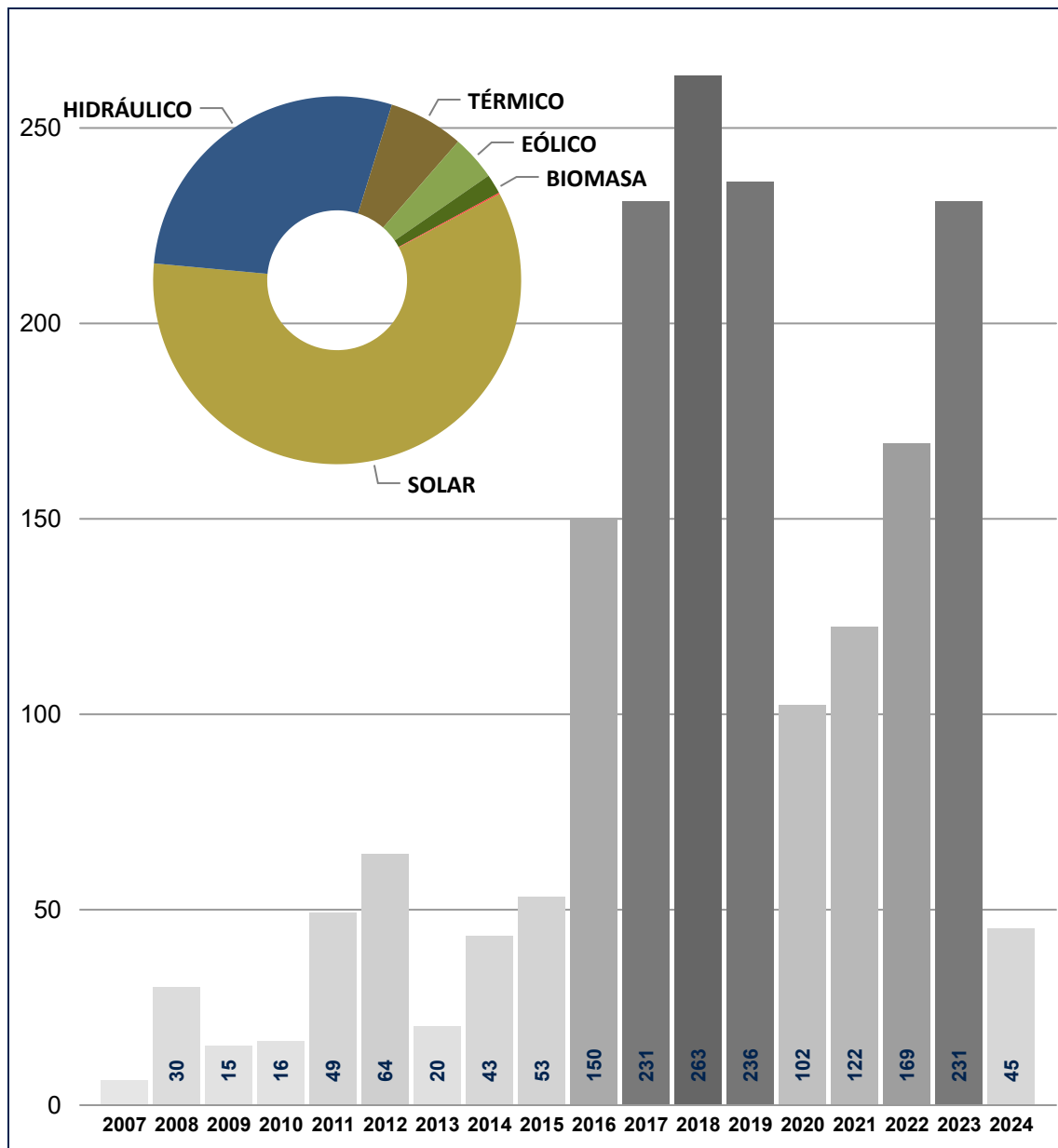
**Diseño y Diagramación**

Carlos Fernando Valles Franco

Hecho en Colombia

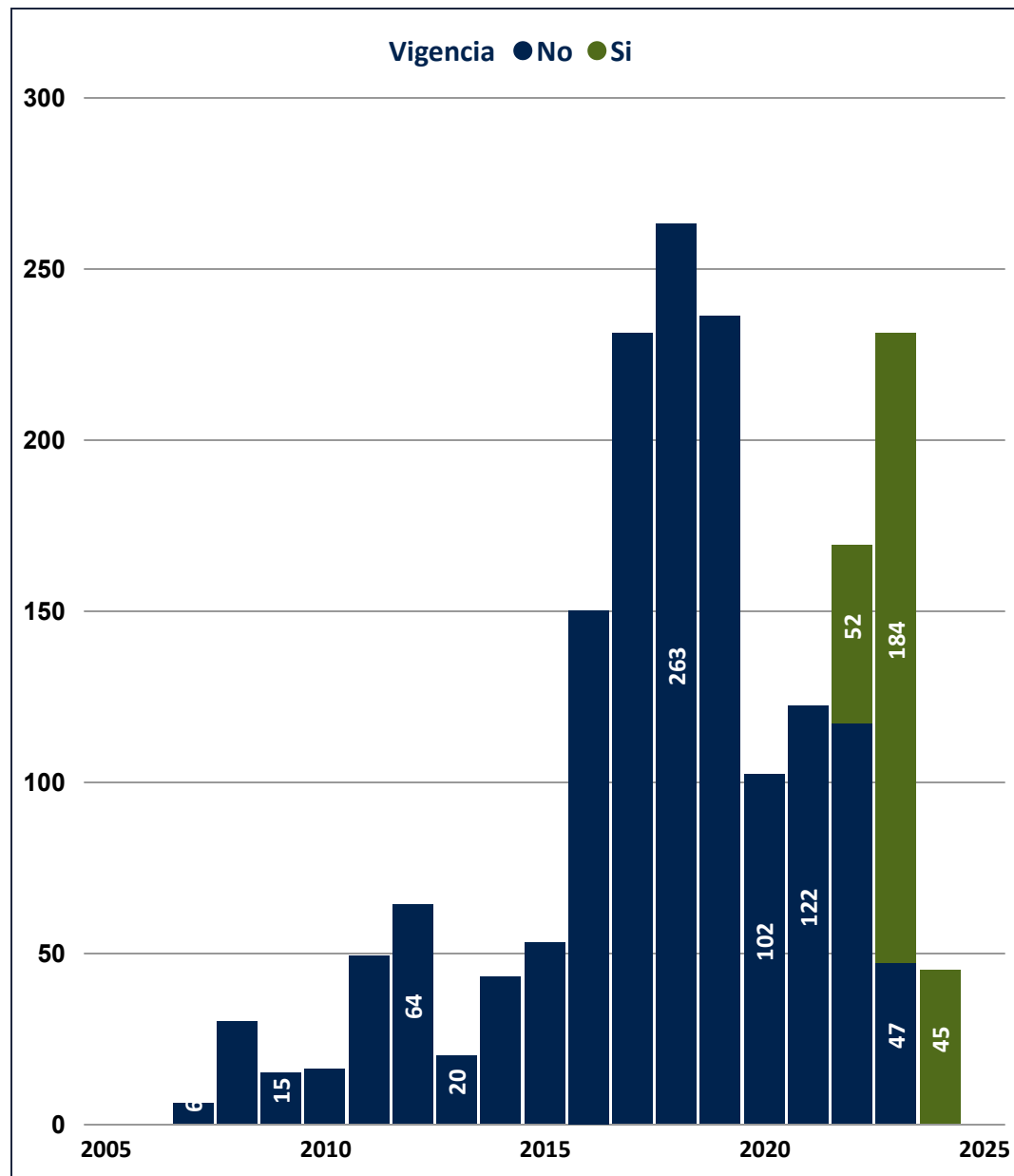
**Año 2024**

## Número de proyectos presentados

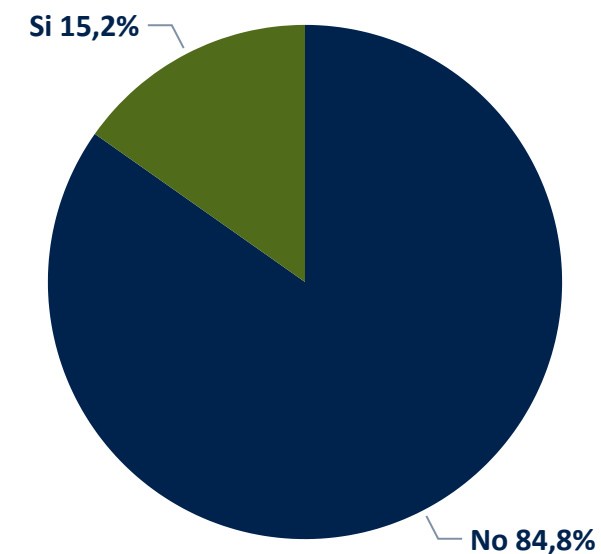


| Año   | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-------|---------|--------|------------|------------|-------|---------|-------|
| 2007  |         |        |            | 4          |       | 2       | 6     |
| 2008  |         |        |            | 9          |       | 21      | 30    |
| 2009  | 1       |        |            | 14         |       |         | 15    |
| 2010  |         |        |            | 15         |       | 1       | 16    |
| 2011  | 1       |        |            | 30         |       | 18      | 49    |
| 2012  |         |        |            | 64         |       |         | 64    |
| 2013  | 1       |        |            | 17         |       | 2       | 20    |
| 2014  | 2       |        |            | 41         |       |         | 43    |
| 2015  |         | 2      | 1          | 42         |       | 8       | 53    |
| 2016  | 6       | 1      |            | 43         | 96    | 4       | 150   |
| 2017  | 5       | 3      |            | 38         | 182   | 3       | 231   |
| 2018  | 6       | 5      |            | 52         | 176   | 24      | 263   |
| 2019  | 4       | 11     |            | 38         | 158   | 25      | 236   |
| 2020  | 1       | 7      |            | 34         | 59    | 1       | 102   |
| 2021  | 1       | 10     |            | 16         | 93    | 2       | 122   |
| 2022  |         | 14     |            | 36         | 113   | 6       | 169   |
| 2023  | 4       | 17     | 1          | 25         | 179   | 5       | 231   |
| 2024  |         | 3      |            | 5          | 37    |         | 45    |
| Total | 32      | 73     | 2          | 523        | 1093  | 122     | 1845  |

## Número de proyectos presentados por vigencia



| Año          | No          | Si         | Total       |
|--------------|-------------|------------|-------------|
| 2007         | 6           |            | 6           |
| 2008         | 30          |            | 30          |
| 2009         | 15          |            | 15          |
| 2010         | 16          |            | 16          |
| 2011         | 49          |            | 49          |
| 2012         | 64          |            | 64          |
| 2013         | 20          |            | 20          |
| 2014         | 43          |            | 43          |
| 2015         | 53          |            | 53          |
| 2016         | 150         |            | 150         |
| 2017         | 231         |            | 231         |
| 2018         | 263         |            | 263         |
| 2019         | 236         |            | 236         |
| 2020         | 102         |            | 102         |
| 2021         | 122         |            | 122         |
| 2022         | 117         | 52         | 169         |
| 2023         | 47          | 184        | 231         |
| 2024         |             | 45         | 45          |
| <b>Total</b> | <b>1564</b> | <b>281</b> | <b>1845</b> |

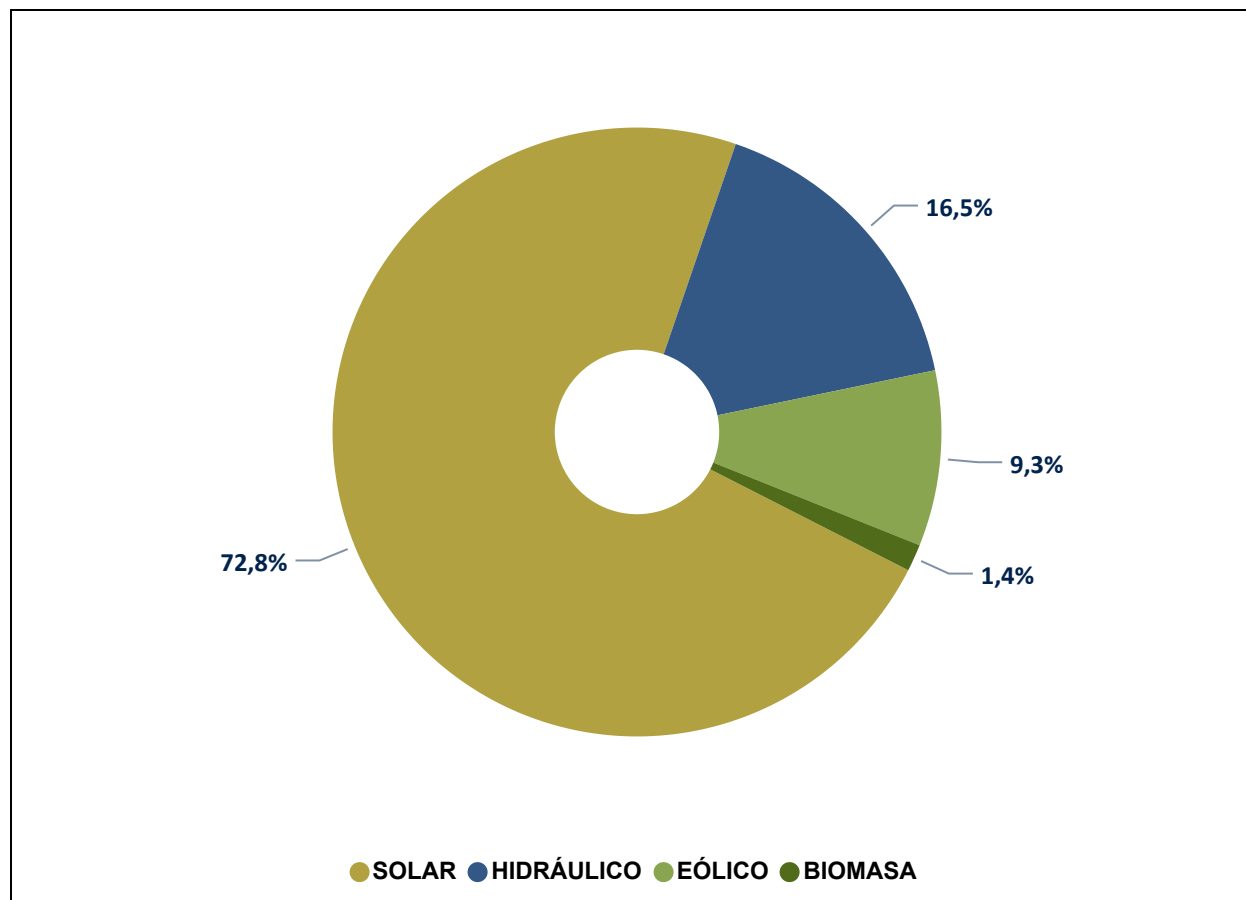
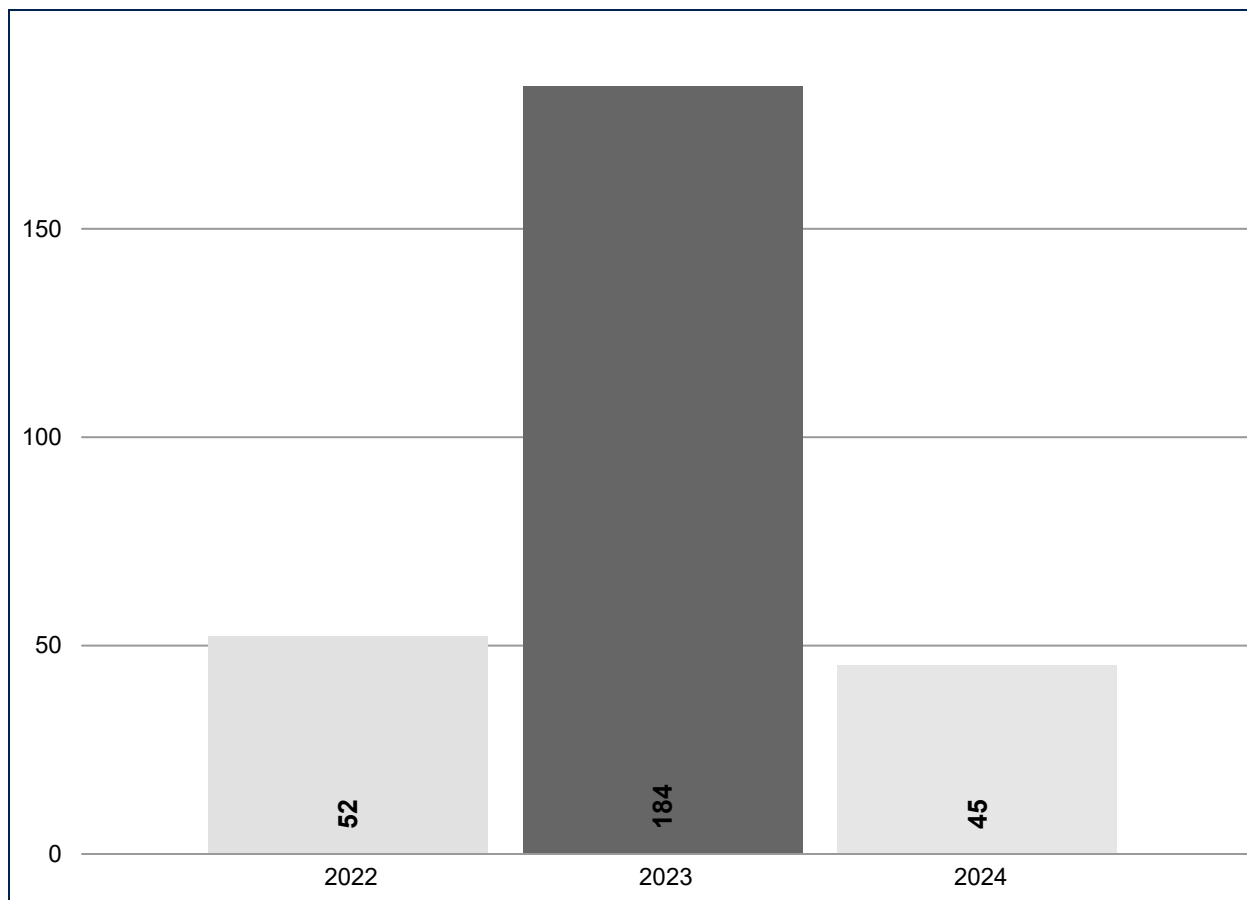


Vigencia ● No ● Si

## Número de proyectos vigentes

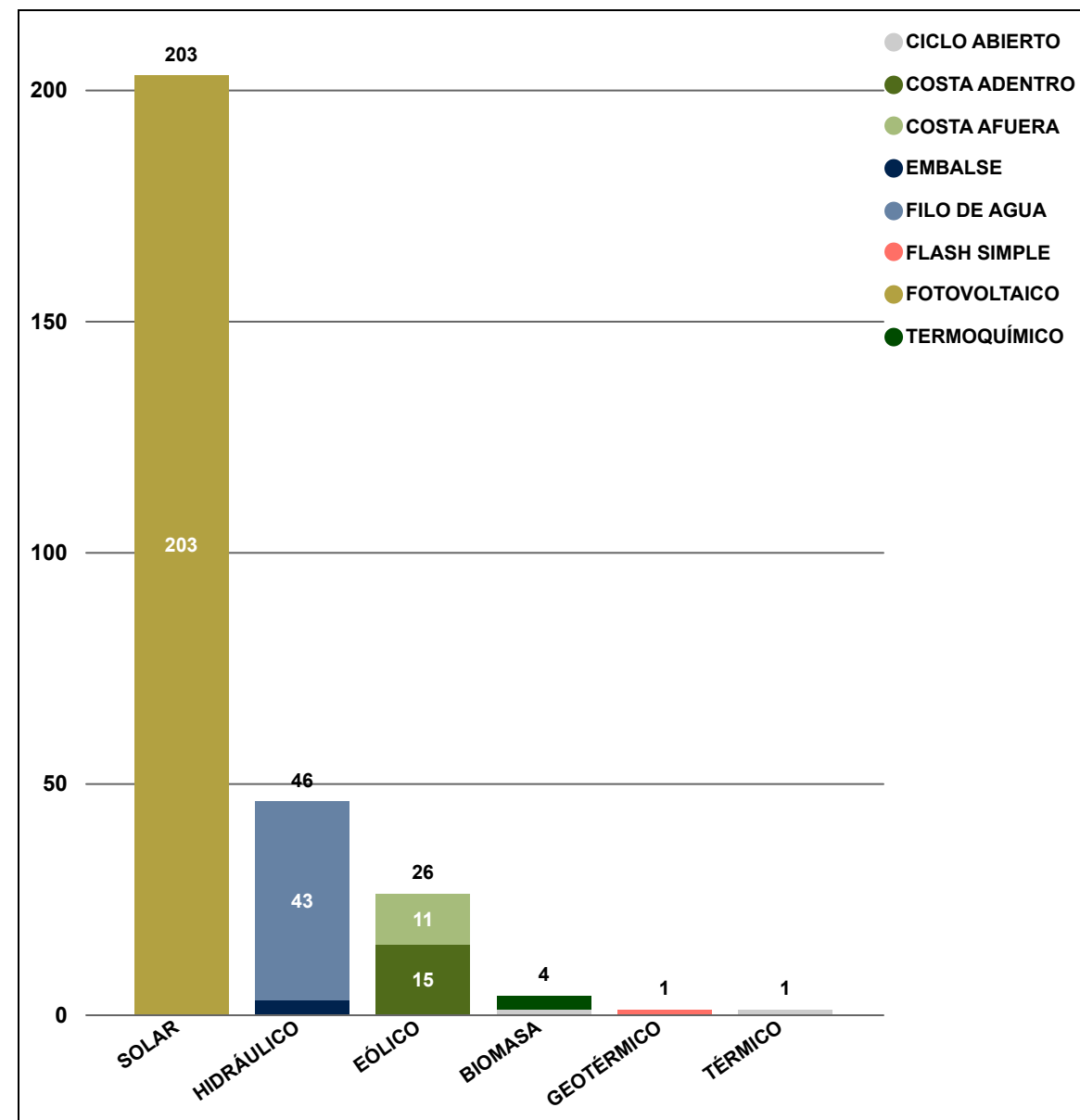
| Año   | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total  |
|-------|---------|--------|------------|------------|-------|---------|--------|
| 2023  | 1,4%    | 4,3%   | 0,4%       | 8,2%       | 51,2% |         | 65,5%  |
| 2022  |         | 3,9%   |            | 6,4%       | 7,8%  | 0,4%    | 18,5%  |
| 2024  |         | 1,1%   |            | 1,8%       | 13,2% |         | 16,0%  |
| Total | 1,4%    | 9,3%   | 0,4%       | 16,4%      | 72,2% | 0,4%    | 100,0% |

| Año   | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-------|---------|--------|------------|------------|-------|---------|-------|
| 2022  |         | 11     |            | 18         | 22    | 1       | 52    |
| 2023  | 4       | 12     | 1          | 23         | 144   |         | 184   |
| 2024  |         | 3      |            | 5          | 37    |         | 45    |
| Total | 4       | 26     | 1          | 46         | 203   | 1       | 281   |

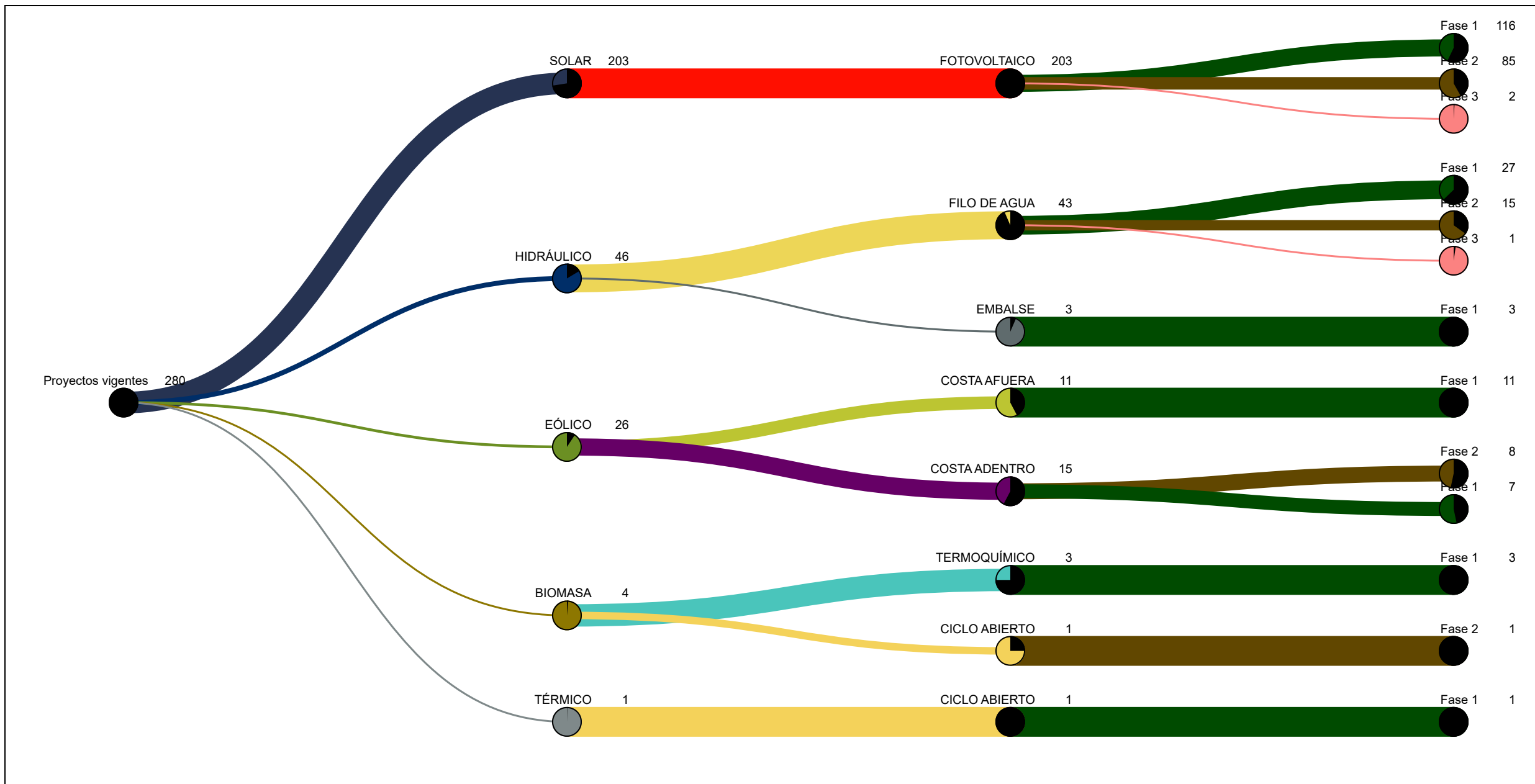


## Número de proyectos vigentes

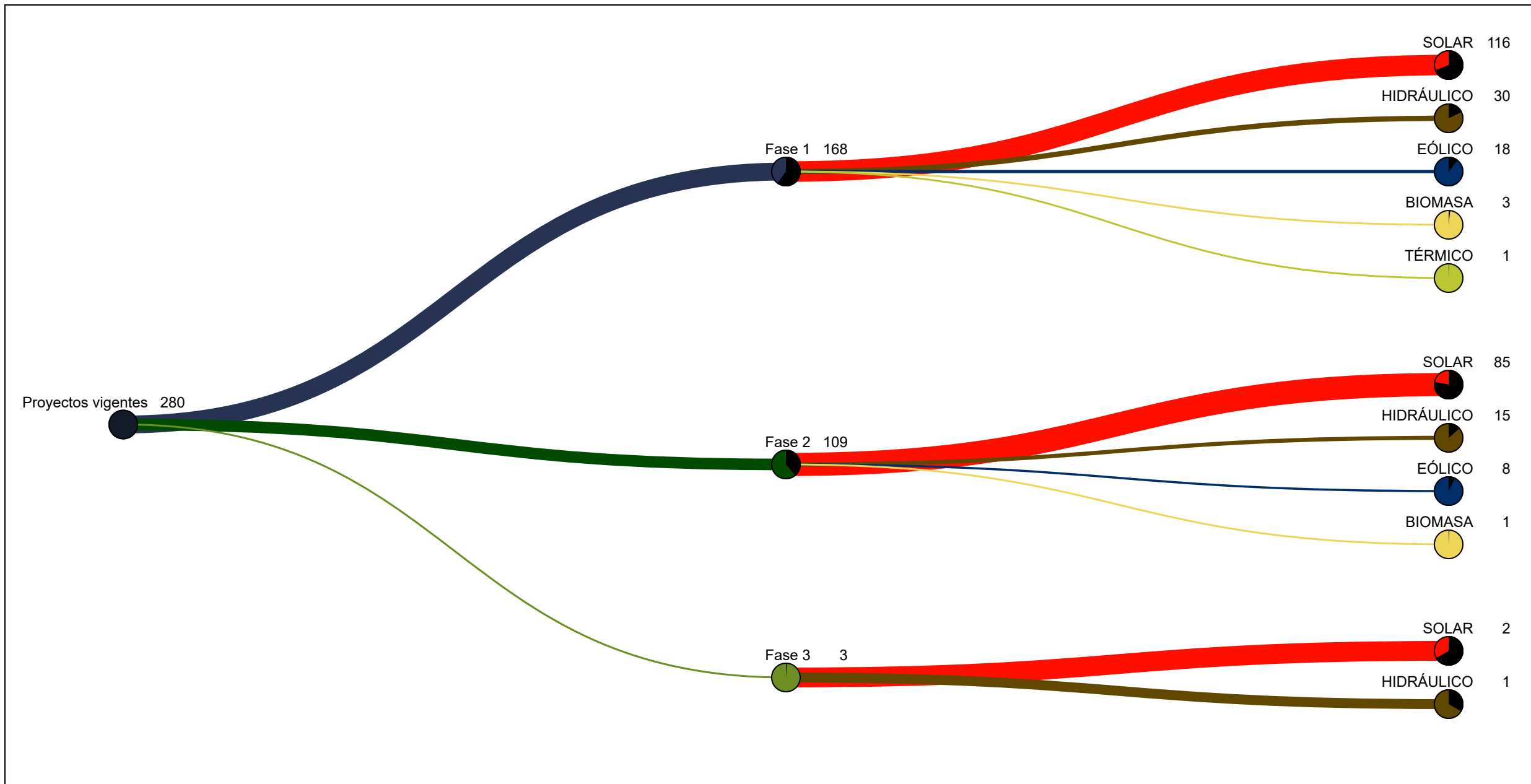
| Recurso                  | BIOMASA  | EÓLICO    | GEOTÉRMICO | HIDRÁULICO | SOLAR      | TÉRMICO  | Total      |
|--------------------------|----------|-----------|------------|------------|------------|----------|------------|
| SOL                      |          |           |            |            | 203        |          | 203        |
| FOTOVOLTAICO             |          |           |            |            | 203        |          | 203        |
| AGUA                     |          |           |            | 46         |            |          | 46         |
| FILO DE AGUA             |          |           |            | 43         |            |          | 43         |
| EMBALSE                  |          |           |            | 3          |            |          | 3          |
| VIENTO                   |          | 26        |            |            |            |          | 26         |
| COSTA ADENTRO            |          | 15        |            |            |            |          | 15         |
| COSTA AFUERA             |          | 11        |            |            |            |          | 11         |
| RESIDUOS SÓLIDOS URBANOS | 3        |           |            |            |            |          | 3          |
| TERMOQUÍMICO             | 3        |           |            |            |            |          | 3          |
| CULTIVO ENERGÉTICO       | 1        |           |            |            |            |          | 1          |
| CICLO ABIERTO            | 1        |           |            |            |            |          | 1          |
| GAS NATURAL              |          |           |            |            |            | 1        | 1          |
| CICLO ABIERTO            |          |           |            |            |            | 1        | 1          |
| VAPOR                    |          |           | 1          |            |            |          | 1          |
| FLASH SIMPLE             |          |           | 1          |            |            |          | 1          |
| <b>Total</b>             | <b>4</b> | <b>26</b> | <b>1</b>   | <b>46</b>  | <b>203</b> | <b>1</b> | <b>281</b> |



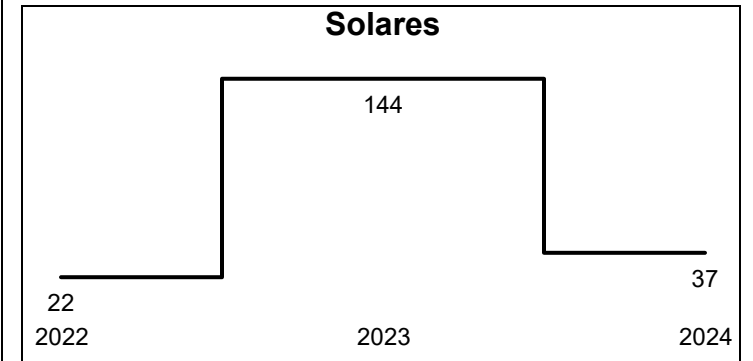
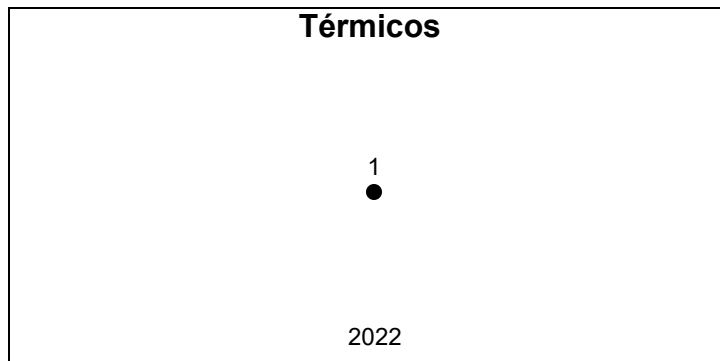
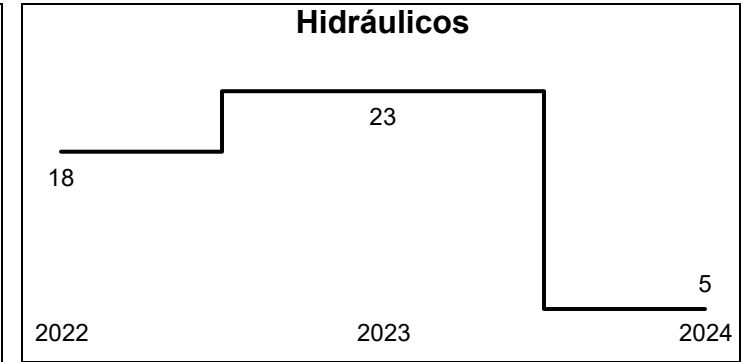
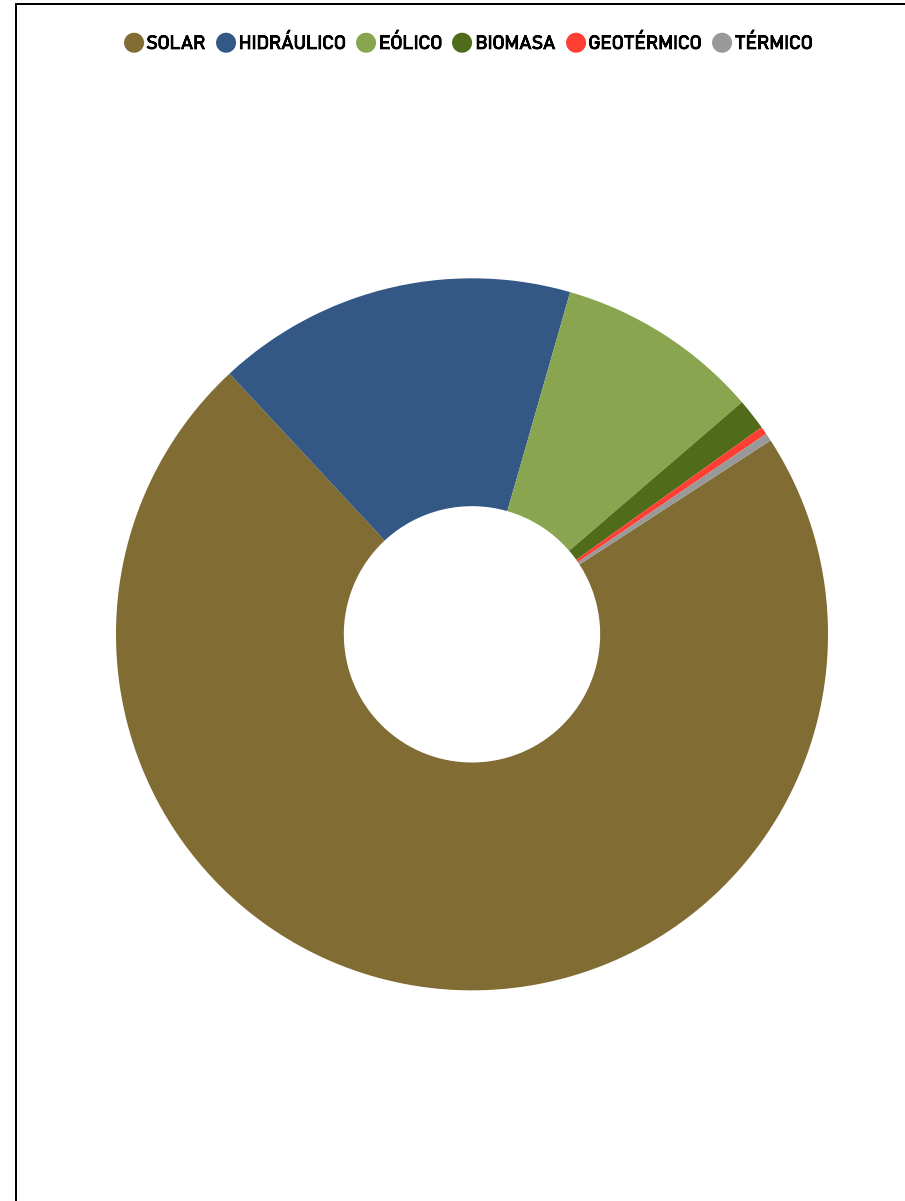
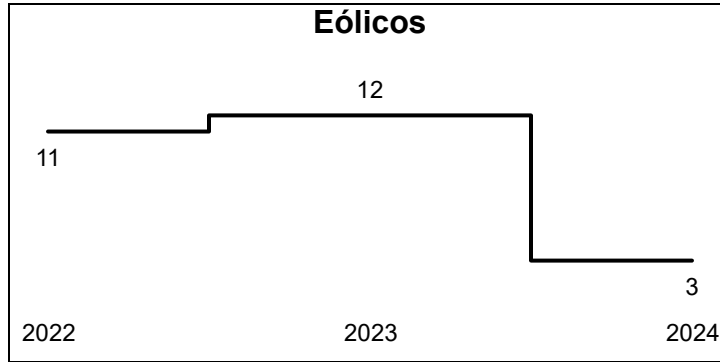
## Número de proyectos vigentes



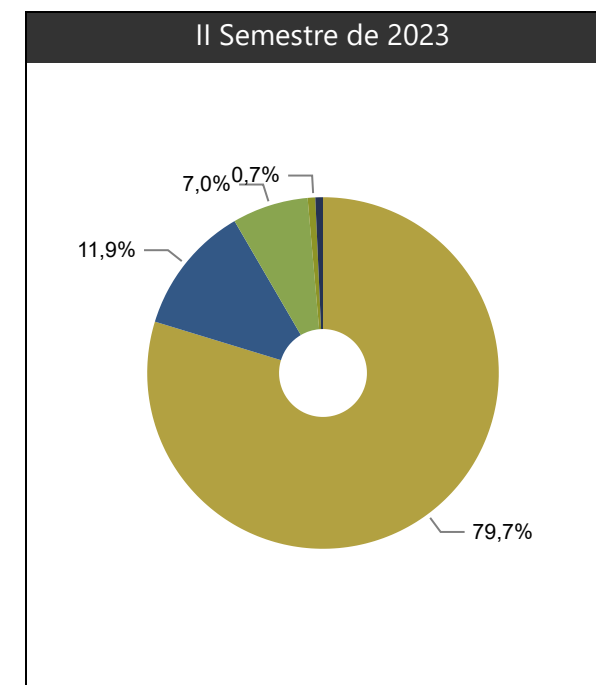
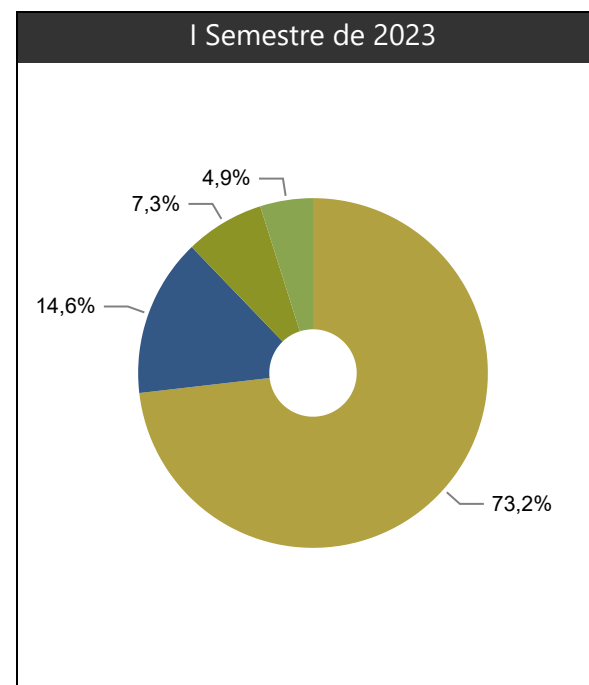
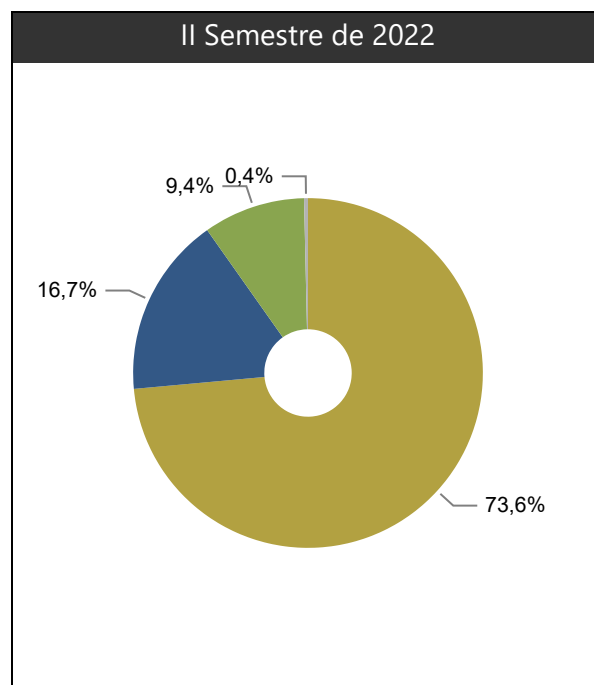
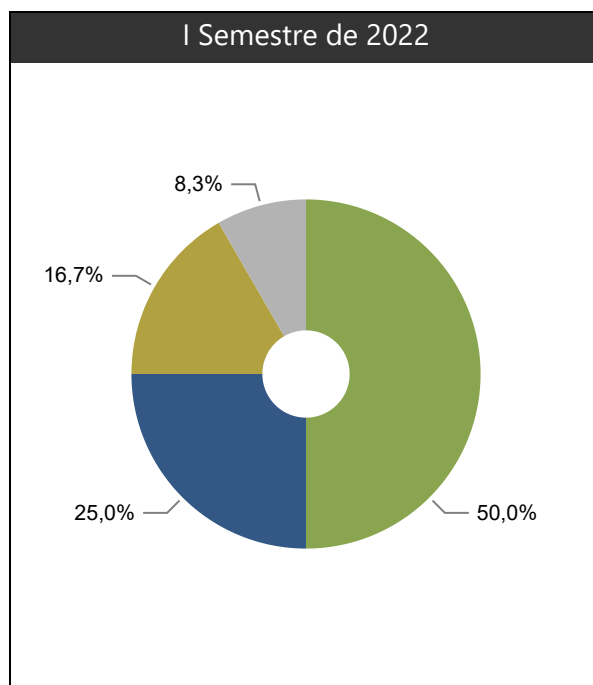
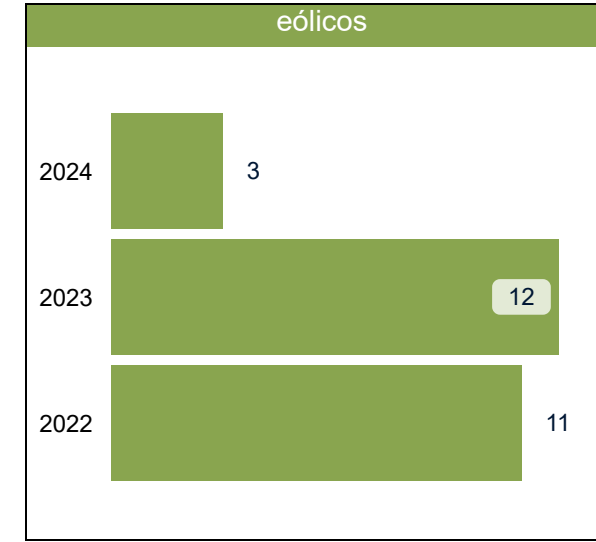
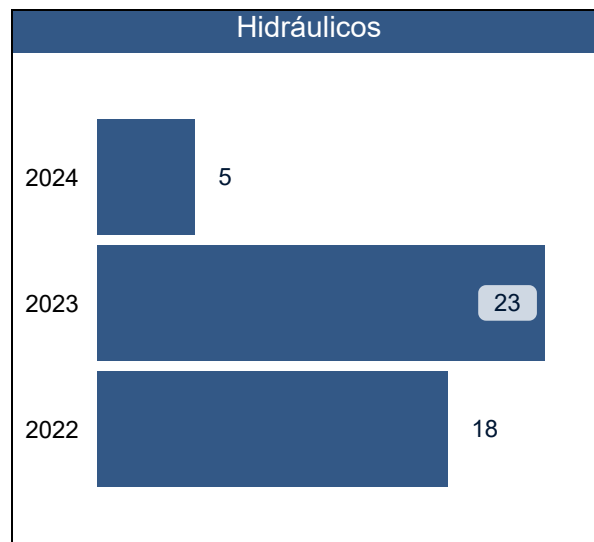
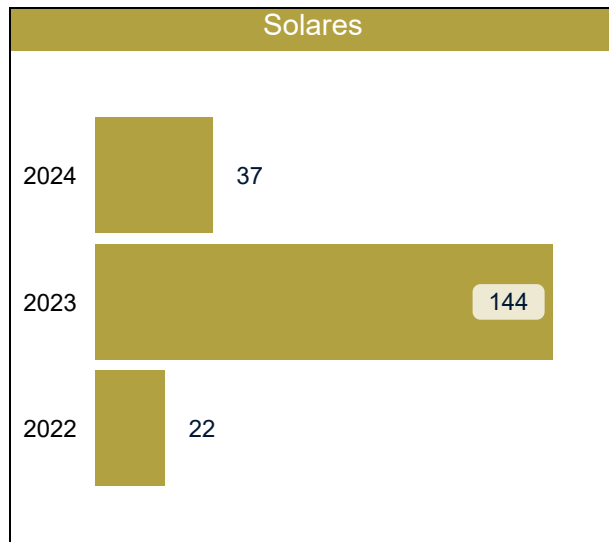
## Número de proyectos vigentes



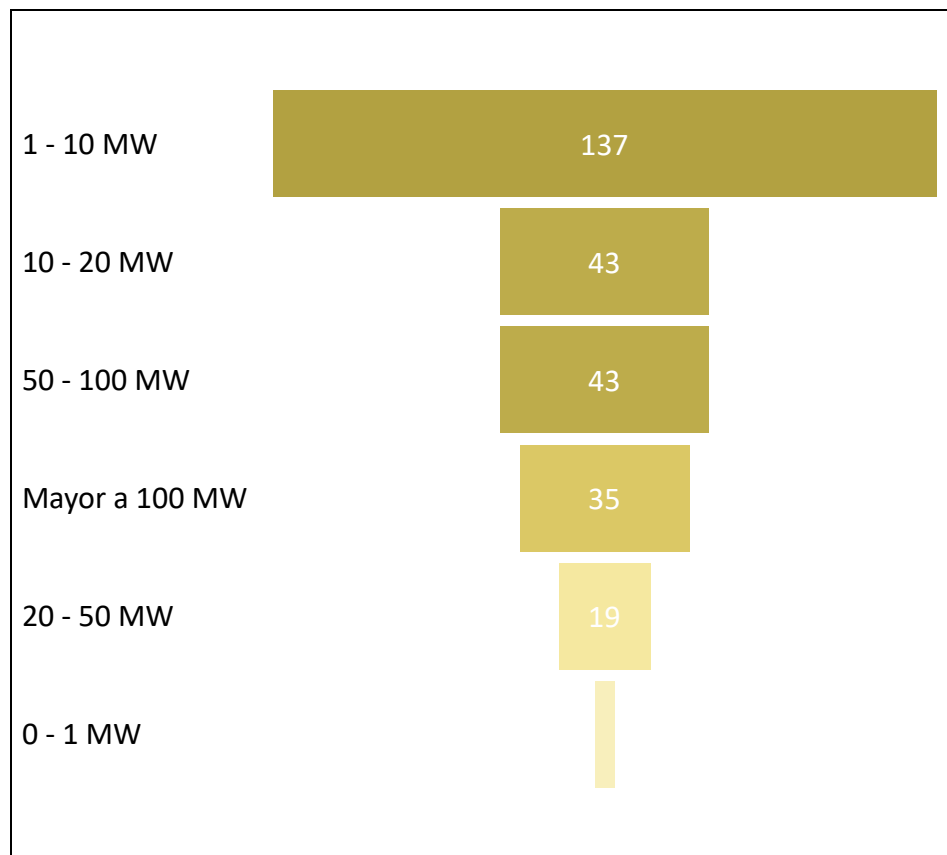
Evolución del número de proyectos vigentes



## Número de proyectos vigentes



## Número de proyectos vigentes por rango de potencia

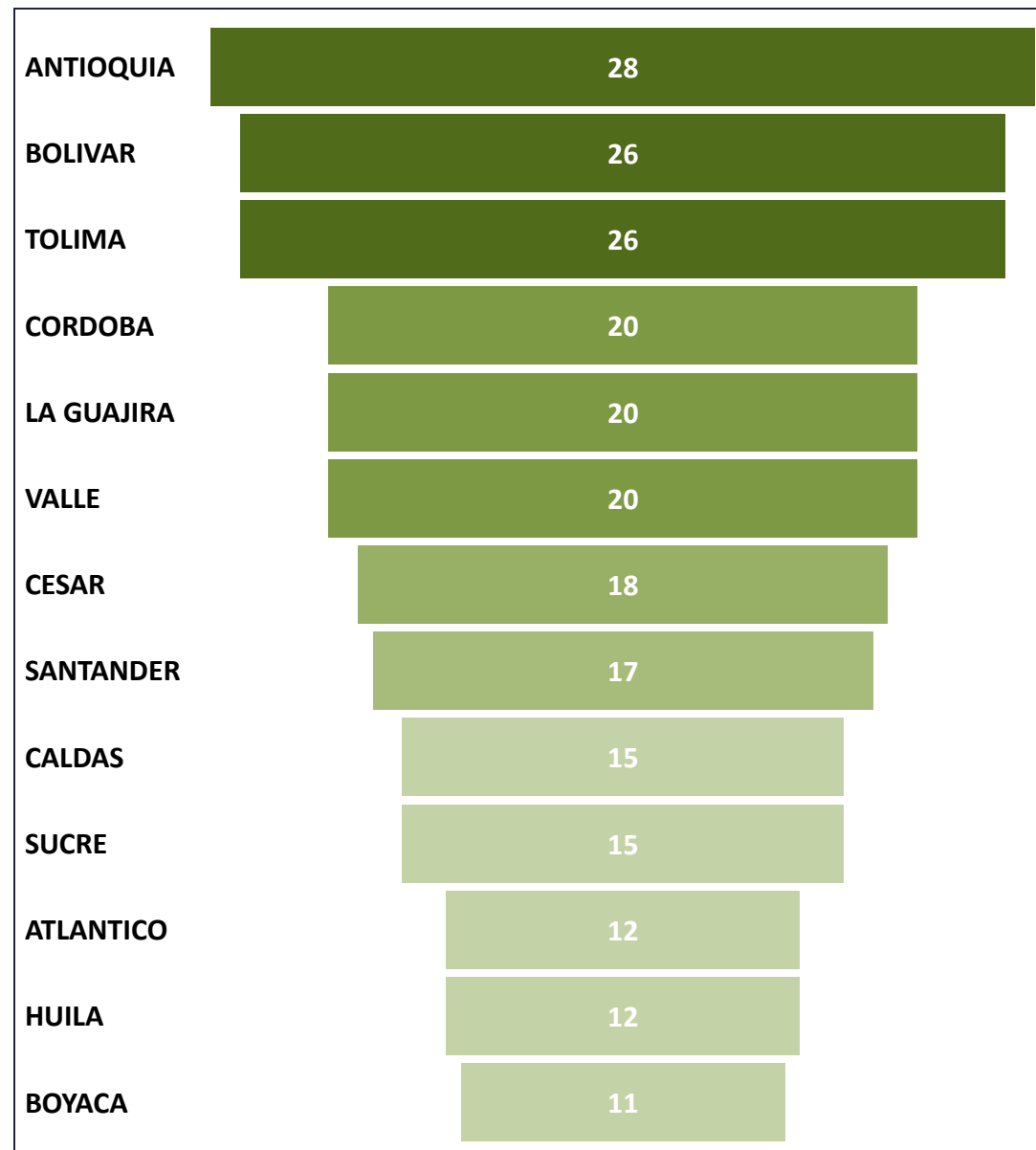


| ▲ Rango        | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|---------|--------|------------|------------|-------|---------|-------|
| 0 - 1 MW       |         |        |            | 1          | 3     |         | 4     |
| 1 - 10 MW      | 3       | 2      | 1          | 24         | 107   |         | 137   |
| 10 - 20 MW     |         |        |            | 11         | 32    |         | 43    |
| 20 - 50 MW     | 1       | 4      |            | 3          | 11    |         | 19    |
| 50 - 100 MW    |         | 6      |            | 5          | 32    |         | 43    |
| Mayor a 100 MW |         | 14     |            | 2          | 18    | 1       | 35    |
| Total          | 4       | 26     | 1          | 46         | 203   | 1       | 281   |

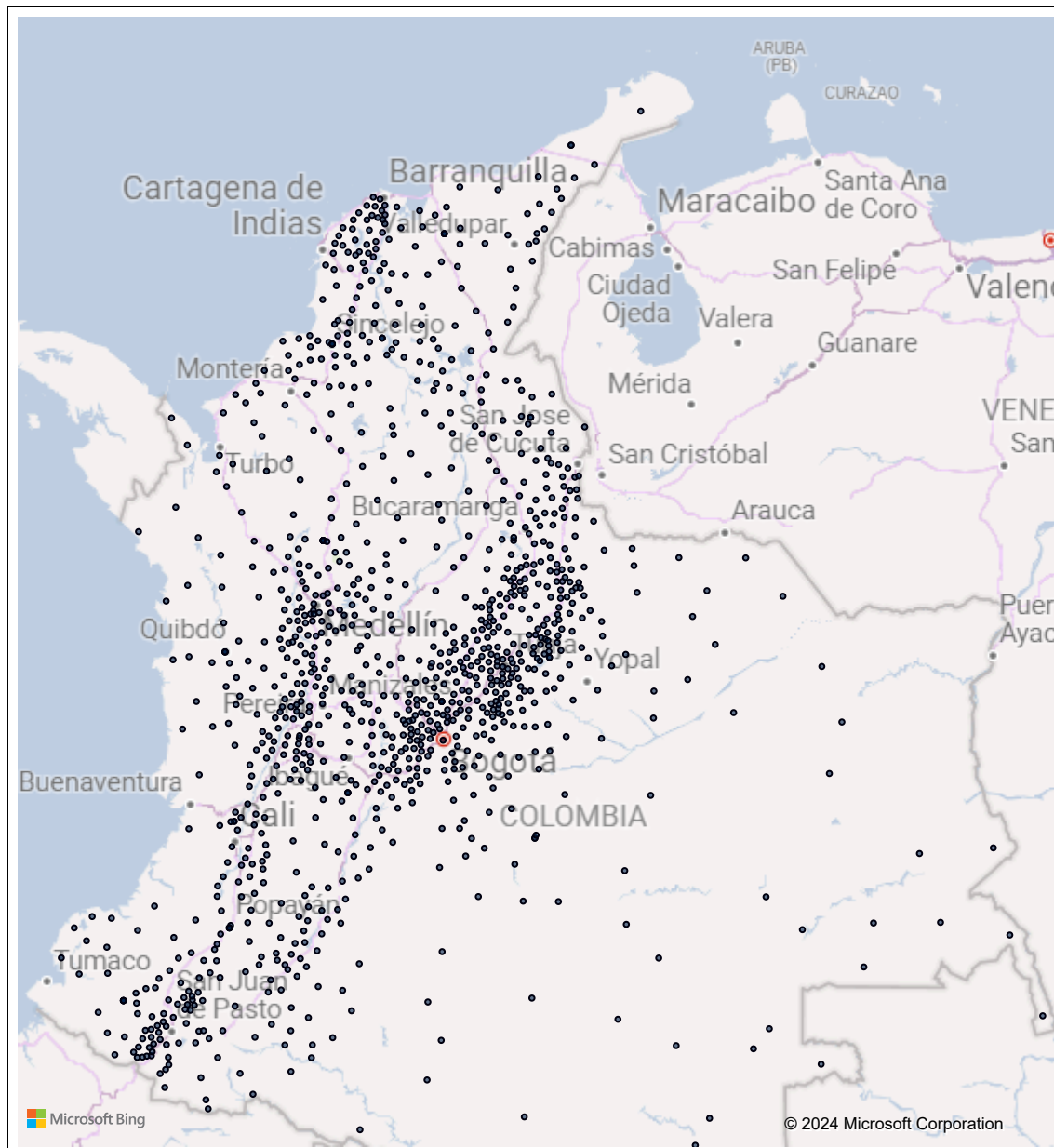
| ▲ Rango        | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR  | TÉRMICO | Total   |
|----------------|---------|--------|------------|------------|--------|---------|---------|
| 0 - 1 MW       |         |        |            | 0,36%      | 1,07%  |         | 1,42%   |
| 1 - 10 MW      | 1,07%   | 0,71%  | 0,36%      | 8,54%      | 38,08% |         | 48,75%  |
| 10 - 20 MW     |         |        |            | 3,91%      | 11,39% |         | 15,30%  |
| 20 - 50 MW     | 0,36%   | 1,42%  |            | 1,07%      | 3,91%  |         | 6,76%   |
| 50 - 100 MW    |         | 2,14%  |            | 1,78%      | 11,39% |         | 15,30%  |
| Mayor a 100 MW |         | 4,98%  |            | 0,71%      | 6,41%  | 0,36%   | 12,46%  |
| Total          | 1,42%   | 9,25%  | 0,36%      | 16,37%     | 72,24% | 0,36%   | 100,00% |

## Número de proyectos vigentes por departamento

| Departamento    | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-----------------|---------|--------|------------|------------|-------|---------|-------|
| ANTIOQUIA       | 1       |        |            | 18         | 9     |         | 28    |
| ARAUCA          |         |        |            |            | 2     |         | 2     |
| ATLANTICO       | 1       | 3      |            |            | 8     |         | 12    |
| BOLIVAR         |         | 2      |            |            | 24    |         | 26    |
| BOYACA          |         |        | 1          |            | 10    |         | 11    |
| CALDAS          |         |        |            | 9          | 6     |         | 15    |
| CASANARE        | 1       |        |            |            | 4     |         | 5     |
| CAUCA           |         |        |            | 6          |       |         | 6     |
| CESAR           |         | 1      |            |            | 17    |         | 18    |
| CORDOBA         |         | 1      |            |            | 19    |         | 20    |
| CUNDINAMARCA    |         |        |            | 1          | 8     |         | 9     |
| HUILA           |         |        |            |            | 12    |         | 12    |
| LA GUAJIRA      |         | 14     |            |            | 6     |         | 20    |
| MAGDALENA       |         | 5      |            |            | 5     |         | 10    |
| META            |         |        |            |            | 2     |         | 2     |
| NARIÑO          |         |        |            |            | 1     |         | 1     |
| NORTE SANTANDER |         |        |            |            | 1     |         | 1     |
| PUTUMAYO        |         |        |            |            | 1     |         | 1     |
| QUINDIO         |         |        |            | 1          |       |         | 1     |
| RISARALDA       |         |        |            |            | 2     |         | 2     |
| SANTANDER       |         |        |            | 6          | 11    |         | 17    |
| SUCRE           |         |        |            |            | 15    |         | 15    |
| TOLIMA          |         |        |            | 3          | 23    |         | 26    |
| VALLE           | 1       |        |            | 2          | 16    | 1       | 20    |
| VAUPES          |         |        |            |            | 1     |         | 1     |
| Total           | 4       | 26     | 1          | 46         | 203   | 1       | 281   |



## Número de proyectos vigentes por municipio (con más de 2 proyectos)

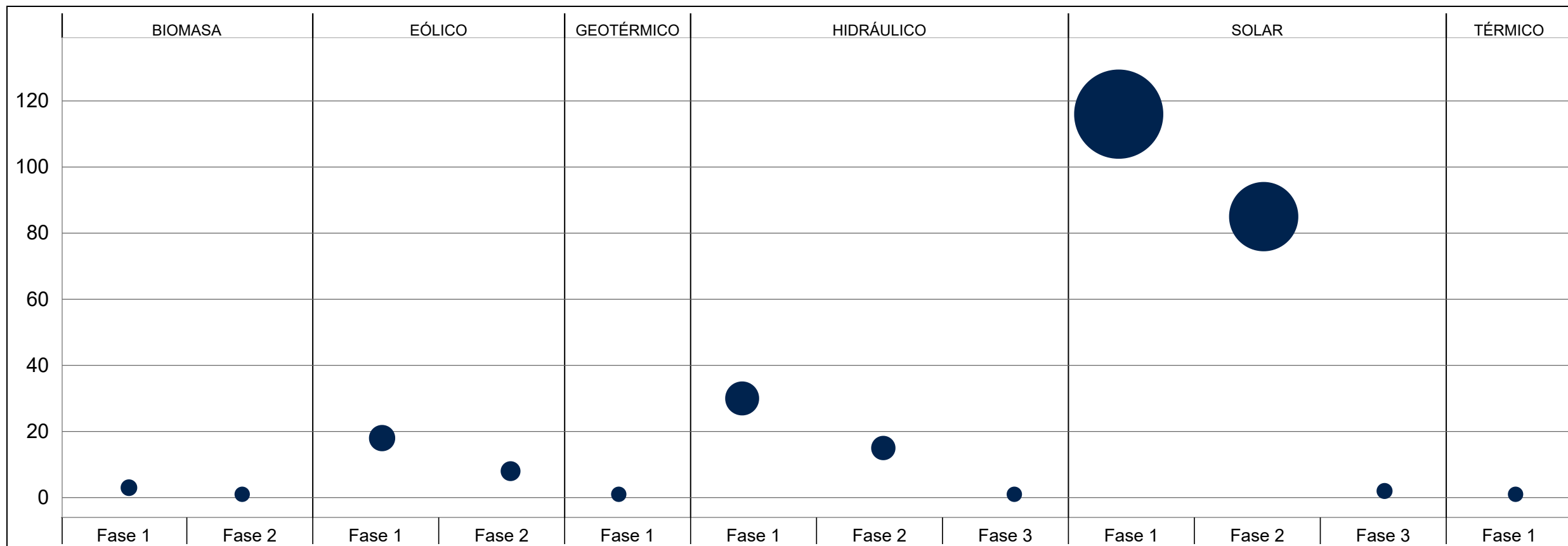


| Municipio          | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | Total |
|--------------------|---------|--------|------------|-------|-------|
| URIBIA             |         | 10     |            | 1     | 11    |
| IBAGUE             |         |        |            | 7     | 7     |
| EL PASO            |         |        |            | 6     | 6     |
| NATAGAIMA          |         |        |            | 6     | 6     |
| NEIVA              |         |        |            | 6     | 6     |
| BARRANCABERMEJA    |         |        |            | 5     | 5     |
| MARULANDA          |         |        | 5          |       | 5     |
| CHINU              |         |        |            | 4     | 4     |
| EL COPEY           |         |        |            | 4     | 4     |
| PALMIRA            |         |        |            | 4     | 4     |
| PALMITO            |         |        |            | 4     | 4     |
| PUENTE NACIONAL    |         |        | 4          |       | 4     |
| VALLEDUPAR         |         | 1      |            | 3     | 4     |
| ARMERO             |         |        |            | 3     | 3     |
| CARTAGENA          |         | 1      |            | 2     | 3     |
| CARTAGO            |         |        |            | 3     | 3     |
| CHIRIGUANA         |         |        |            | 3     | 3     |
| CLEMENCIA          |         |        |            | 3     | 3     |
| ESPINAL            |         |        |            | 3     | 3     |
| GALAPA             | 1       |        |            | 2     | 3     |
| MAICAO             |         | 3      |            |       | 3     |
| PUERTO BOYACA      |         |        |            | 3     | 3     |
| SABANALARGA        |         |        |            | 3     | 3     |
| SAHAGUN            |         |        |            | 3     | 3     |
| SALAMINA           |         |        | 3          |       | 3     |
| SALGAR             |         |        | 1          | 2     | 3     |
| SAN JACINTO        |         |        |            | 3     | 3     |
| SAN JUAN DEL CESAR |         |        |            | 3     | 3     |
| SINCE              |         |        |            | 3     | 3     |
| SITIONUEVO         |         | 3      |            |       | 3     |
| TOLUVIEJO          |         |        |            | 3     | 3     |
| TURBO              |         |        |            | 3     | 3     |
| YONDO              |         |        |            | 3     | 3     |

## Número de proyectos vigentes por tipo y por estado

| Estado       | BIOMASA  | EÓLICO    | GEOTÉRMICO | HIDRÁULICO | SOLAR      | TÉRMICO  | Total      |
|--------------|----------|-----------|------------|------------|------------|----------|------------|
| Fase 1       | 3        | 18        | 1          | 30         | 116        | 1        | 169        |
| Fase 2       | 1        | 8         |            | 15         | 85         |          | 109        |
| Fase 3       |          |           |            | 1          | 2          |          | 3          |
| <b>Total</b> | <b>4</b> | <b>26</b> | <b>1</b>   | <b>46</b>  | <b>203</b> | <b>1</b> | <b>281</b> |

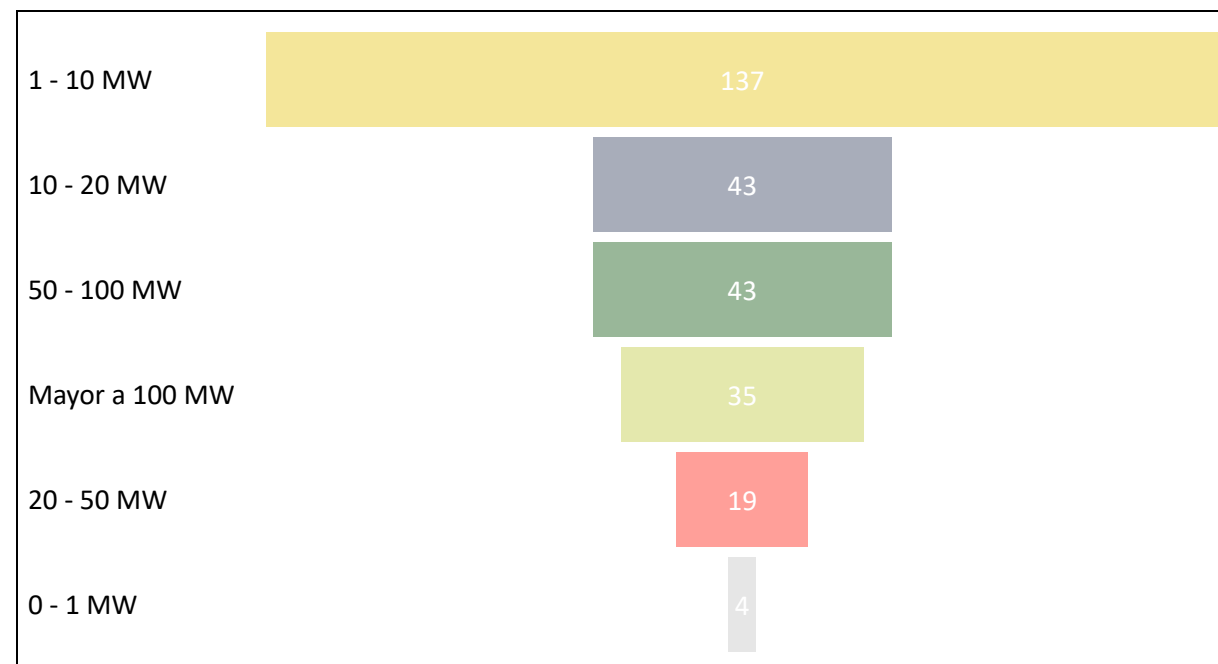
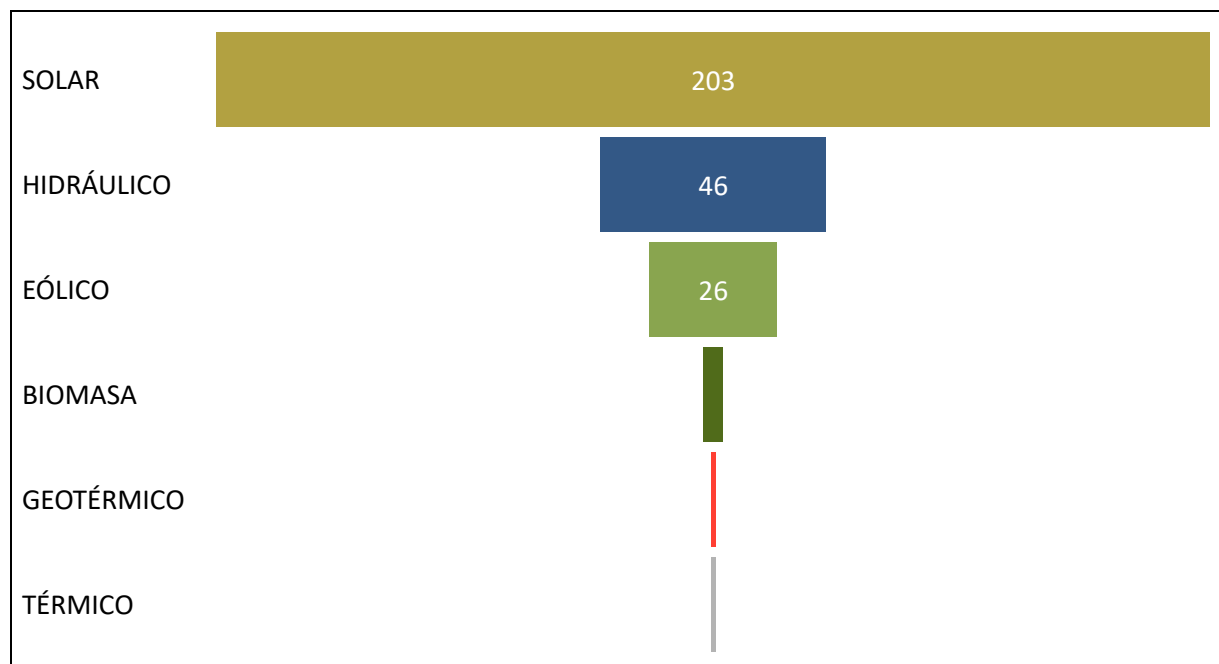
| Año          | BIOMASA  | EÓLICO    | GEOTÉRMICO | HIDRÁULICO | SOLAR      | TÉRMICO  | Total      |
|--------------|----------|-----------|------------|------------|------------|----------|------------|
| 2023         | 4        | 12        | 1          | 23         | 144        |          | 184        |
| 2022         |          | 11        |            | 18         | 22         | 1        | 52         |
| 2024         |          | 3         |            | 5          | 37         |          | 45         |
| <b>Total</b> | <b>4</b> | <b>26</b> | <b>1</b>   | <b>46</b>  | <b>203</b> | <b>1</b> | <b>281</b> |



## Número de proyectos vigentes por tipo y por rango de potencia

| Rango          | BIOMASA  | EÓLICO    | GEOTÉRMICO | HIDRÁULICO | SOLAR      | TÉRMICO  | Total      |
|----------------|----------|-----------|------------|------------|------------|----------|------------|
| 1 - 10 MW      | 3        | 2         | 1          | 24         | 107        |          | 137        |
| 10 - 20 MW     |          |           |            | 11         | 32         |          | 43         |
| 50 - 100 MW    |          | 6         |            | 5          | 32         |          | 43         |
| Mayor a 100 MW |          | 14        |            | 2          | 18         | 1        | 35         |
| 20 - 50 MW     | 1        | 4         |            | 3          | 11         |          | 19         |
| 0 - 1 MW       |          |           |            | 1          | 3          |          | 4          |
| <b>Total</b>   | <b>4</b> | <b>26</b> | <b>1</b>   | <b>46</b>  | <b>203</b> | <b>1</b> | <b>281</b> |

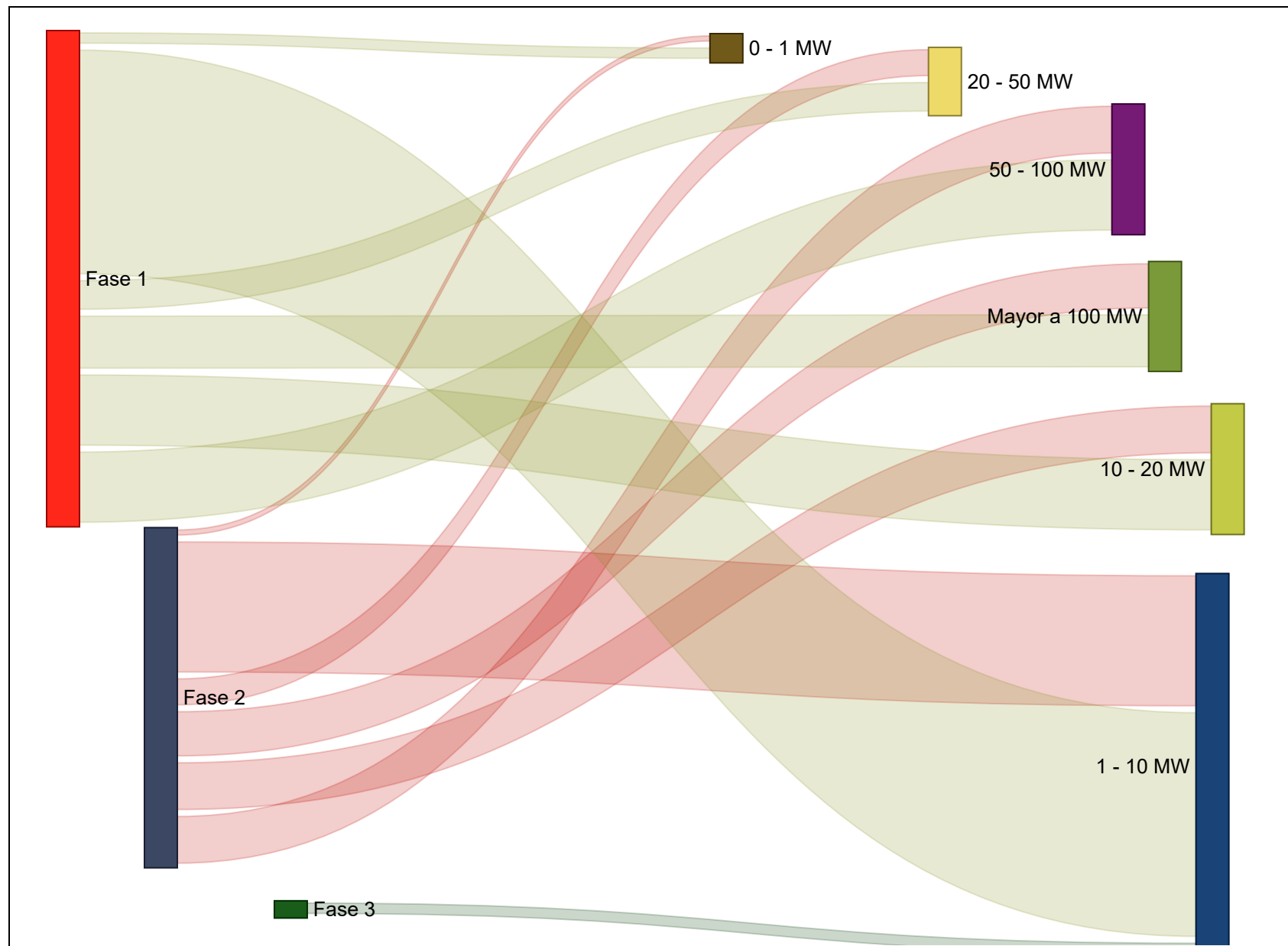
| Rango          | BIOMASA      | EÓLICO       | GEOTÉRMICO   | HIDRÁULICO    | SOLAR         | TÉRMICO      | Total          |
|----------------|--------------|--------------|--------------|---------------|---------------|--------------|----------------|
| Mayor a 100 MW |              | 4,98%        |              | 0,71%         | 6,41%         | 0,36%        | 12,46%         |
| 50 - 100 MW    |              | 2,14%        |              | 1,78%         | 11,39%        |              | 15,30%         |
| 20 - 50 MW     | 0,36%        | 1,42%        |              | 1,07%         | 3,91%         |              | 6,76%          |
| 10 - 20 MW     |              |              |              | 3,91%         | 11,39%        |              | 15,30%         |
| 1 - 10 MW      | 1,07%        | 0,71%        | 0,36%        | 8,54%         | 38,08%        |              | 48,75%         |
| 0 - 1 MW       |              |              |              | 0,36%         | 1,07%         |              | 1,42%          |
| <b>Total</b>   | <b>1,42%</b> | <b>9,25%</b> | <b>0,36%</b> | <b>16,37%</b> | <b>72,24%</b> | <b>0,36%</b> | <b>100,00%</b> |



## Número de proyectos vigentes según su estado y su rango de potencia

| Rango          | Fase 1     | Fase 2     | Fase 3   | Total      |
|----------------|------------|------------|----------|------------|
| 0 - 1 MW       | 3          | 1          |          | 4          |
| 1 - 10 MW      | 85         | 49         | 3        | 137        |
| 10 - 20 MW     | 26         | 17         |          | 43         |
| 20 - 50 MW     | 10         | 9          |          | 19         |
| 50 - 100 MW    | 26         | 17         |          | 43         |
| Mayor a 100 MW | 19         | 16         |          | 35         |
| <b>Total</b>   | <b>169</b> | <b>109</b> | <b>3</b> | <b>281</b> |

| Rango          | Fase 1        | Fase 2        | Fase 3       | Total          |
|----------------|---------------|---------------|--------------|----------------|
| 0 - 1 MW       | 1,07%         | 0,36%         |              | 1,42%          |
| 1 - 10 MW      | 30,25%        | 17,44%        | 1,07%        | 48,75%         |
| 10 - 20 MW     | 9,25%         | 6,05%         |              | 15,30%         |
| 20 - 50 MW     | 3,56%         | 3,20%         |              | 6,76%          |
| 50 - 100 MW    | 9,25%         | 6,05%         |              | 15,30%         |
| Mayor a 100 MW | 6,76%         | 5,69%         |              | 12,46%         |
| <b>Total</b>   | <b>60,14%</b> | <b>38,79%</b> | <b>1,07%</b> | <b>100,00%</b> |

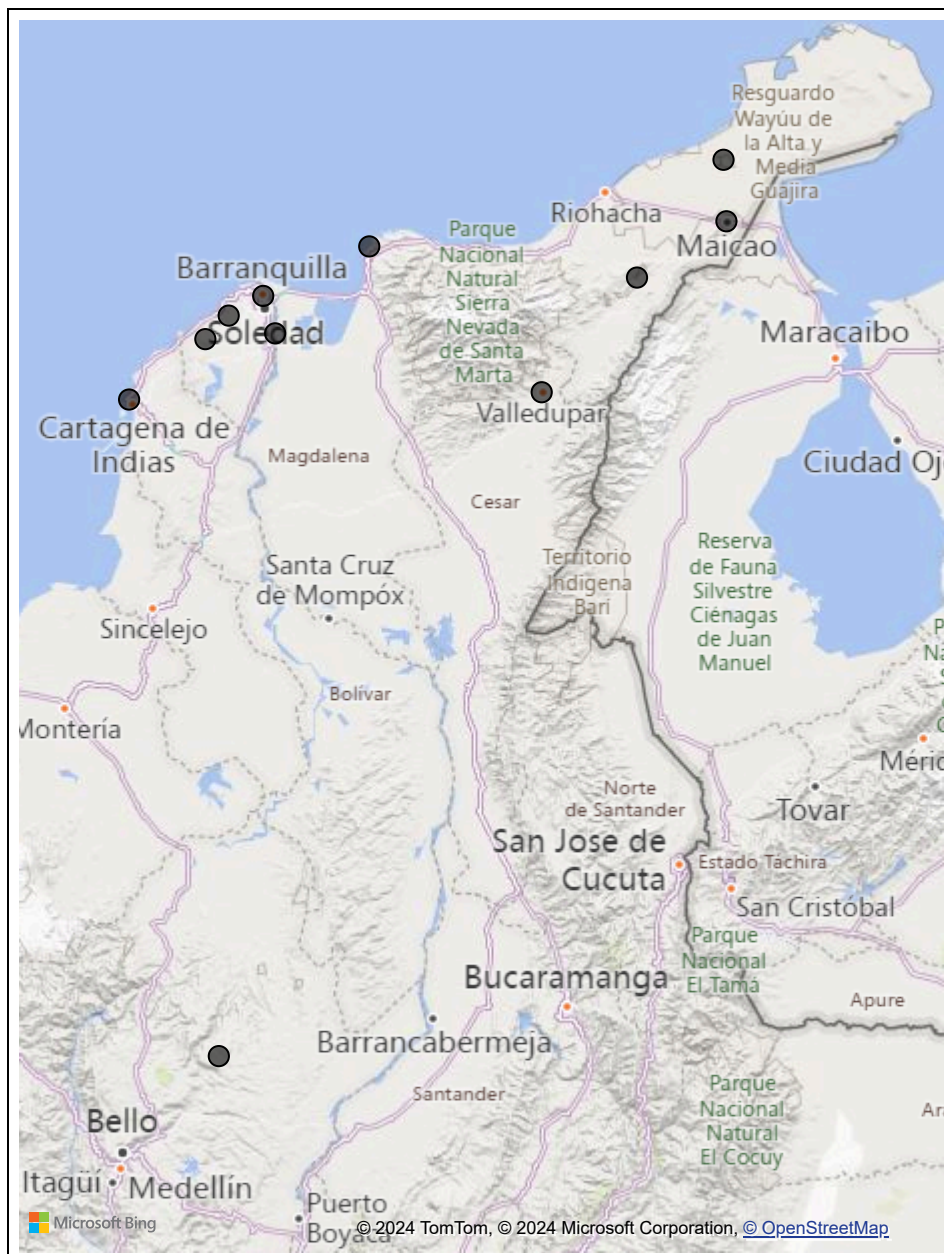


## Ubicación de los principales proyectos solares vigentes (Pot > 100 MW)



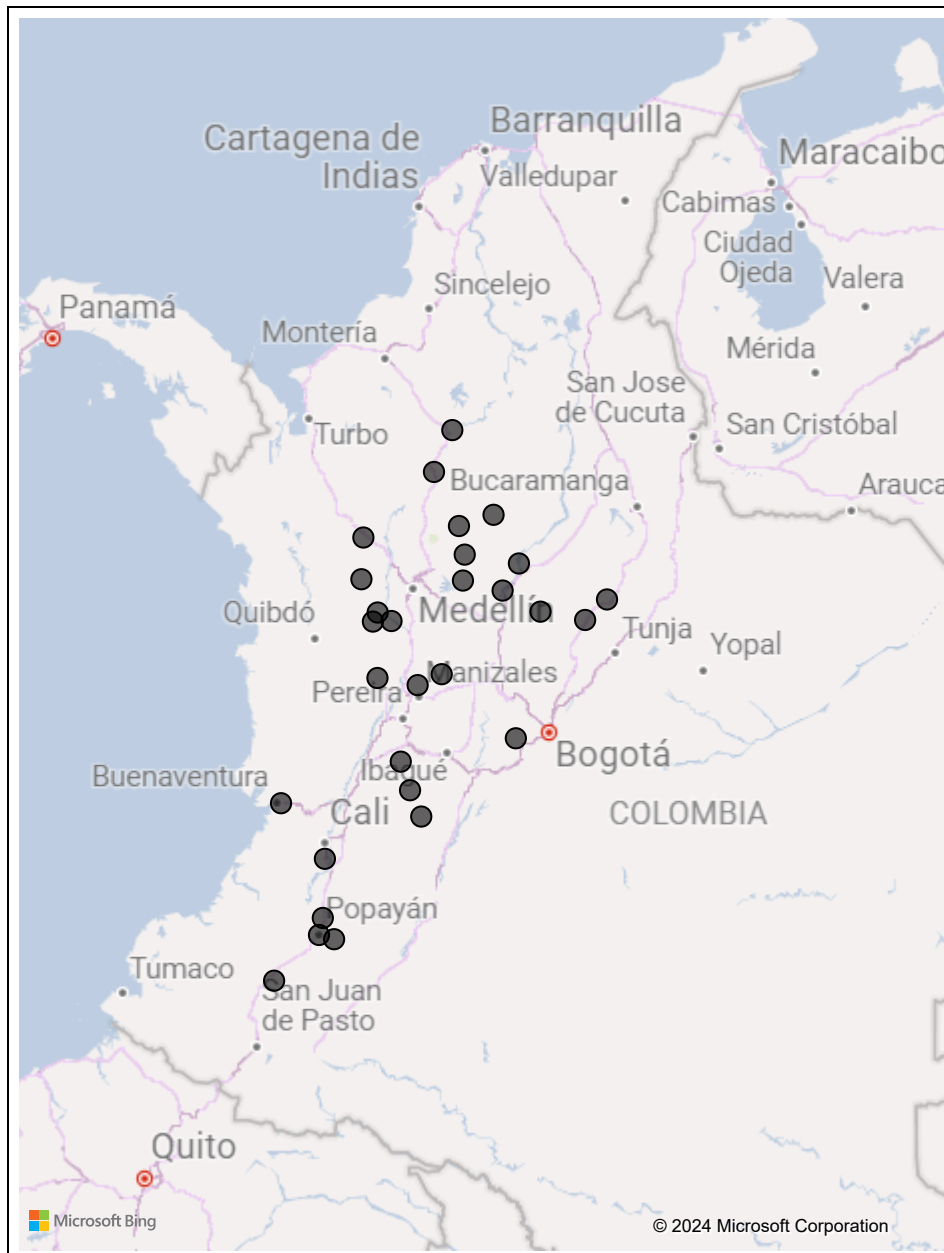
| Municipio-Departamento     | Nombre Proyecto   | Capacidad MW | Estado | Entrada Operacion |
|----------------------------|---|--------------|--------|-------------------|
| ALBANIA, LA GUAJIRA        | GRANJA SOLAR CHIVO MONO I   | 750          | Fase 1 | 30/08/2025        |
| BARRANCABERMEJA, SANTANDER | FOTOVOLTAICA YARIGUÍES 200 MW   | 200          | Fase 2 | 01/03/2026        |
| EL COPEY, CESAR            | PARQUE SOLAR SAN JOSÉ (200 MW)  | 200          | Fase 1 | 31/12/2025        |
| EL COPEY, CESAR            | PARQUE SOLAR DELTA 3  | 200          | Fase 1 | 30/01/2027        |
| EL COPEY, CESAR            | PARQUE SOLAR MALIBU 3   | 200          | Fase 1 | 30/01/2027        |
| EL COPEY, CESAR            | PARQUE SOLAR FOTOVOLTAICO EL COPEY  | 200          | Fase 2 | 30/06/2025        |
| EL MOLINO, LA GUAJIRA      | PLANTA FOTOVOLTAICA SOLAR GUARDIENTERA - PV                                     | 181          | Fase 2 | 29/12/2026        |
| EL PASO, CESAR             | CAÑAHUATE II  | 190          | Fase 1 | 30/12/2024        |
| EL PASO, CESAR             | SC SOLAR SAN MARTIN 300 MWP   | 240          | Fase 2 | 30/12/2026        |
| IBAGUE, TOLIMA             | SHANGRI-LA  | 160          | Fase 2 | 31/12/2024        |
| LA DORADA, CALDAS          | AMANECER  | 150          | Fase 2 | 30/12/2025        |
| MONTELIBANO, CORDOBA       | SAN JORGE FOTOVOLTAICO  | 135          | Fase 2 | 31/12/2025        |
| PONEDERA, ATLANTICO        | PARQUE SOLAR FOTOVOLTAICO GUAYEPO III 200 MW Y SU LINEA DE EVACUACIÓN DE 500 KV | 200          | Fase 2 | 30/12/2025        |
| PUERTO BOYACA, BOYACA      | PARQUE SOLAR FOTOVOLTAICO MELGAR 180 MW   | 180          | Fase 2 | 30/12/2025        |
| SABANALARGA, ATLANTICO     | CANARIO SOLAR   | 120          | Fase 1 | 30/12/2028        |
| SAHAGUN, CORDOBA           | SOLAR SAHAGÚN   | 200          | Fase 2 | 30/12/2024        |
| SAN CARLOS, ANTIOQUIA      | TAMARINO  | 200          | Fase 1 | 31/12/2026        |
| VILLAVICENCIO, META        | BOSQUES SOLARES DE LOS LLANOS 8   | 170          | Fase 2 | 30/12/2026        |

## Ubicación de los principales proyectos eólicos vigentes



| Municipio-Departamento  | Nombre Proyecto                                  | Capacidad MW | Estado | Entrada Operacion |
|-------------------------|--|--------------|--------|-------------------|
| SITIONUEVO, MAGDALENA   | CÉFIRO I   | 7            | Fase 1 | 01/11/2024        |
| SITIONUEVO, MAGDALENA   | CÉFIRO II  | 7            | Fase 1 | 01/12/2024        |
| VALLEDUPAR, CESAR       | EÓLICO JAGUAR                                    | 80           | Fase 1 | 30/12/2028        |
| URIBIA, LA GUAJIRA      | OWF ASTROLABIO                                   | 825          | Fase 1 | 08/02/2032        |
| URIBIA, LA GUAJIRA      | OWF BARLOVENTO                                   | 825          | Fase 1 | 08/02/2032        |
| URIBIA, LA GUAJIRA      | OWF BARLOVENTO I                                 | 50           | Fase 1 | 31/12/2034        |
| URIBIA, LA GUAJIRA      | OWF BARLOVENTO II                                | 50           | Fase 1 | 31/12/2034        |
| URIBIA, LA GUAJIRA      | OWF BARLOVENTO III                               | 50           | Fase 1 | 31/12/2034        |
| URIBIA, LA GUAJIRA      | OWF BARLOVENTO IV                                | 50           | Fase 1 | 31/12/2034        |
| SANTA MARTA, MAGDALENA  | OWF BERGANTIN                                    | 825          | Fase 1 | 08/06/2032        |
| CARTAGENA, BOLIVAR      | OWF BITÁCORA                                     | 510          | Fase 1 | 08/06/2032        |
| BARRANQUILLA, ATLANTICO | OWF GALEON                                       | 825          | Fase 1 | 08/06/2032        |
| SANTA MARTA, MAGDALENA  | OWF GOLETA                                       | 825          | Fase 1 | 08/02/2032        |
| MAICAO, LA GUAJIRA      | PARQUE EÓLICO ACACIAS 2                          | 80           | Fase 2 | 30/06/2025        |
| URIBIA, LA GUAJIRA      | PARQUE EÓLICO CERRITO (ANTES ANDREA JUSAYU)      | 378          | Fase 2 | 30/12/2025        |
| SITIONUEVO, MAGDALENA   | PARQUE EÓLICO FLUVIAL RÍO GRANDE DE LA MAGDALENA | 100          | Fase 1 | 01/05/2026        |
| URIBIA, LA GUAJIRA      | PARQUE EÓLICO JOUTTALEIN                         | 150          | Fase 1 | 01/07/2026        |
| MANAURE, LA GUAJIRA     | PARQUE EÓLICO LA SABANA                          | 250          | Fase 1 | 01/08/2027        |
| URIBIA, LA GUAJIRA      | PARQUE EÓLICO MOTOSIRA                           | 300          | Fase 1 | 01/12/2026        |
| BUENAVISTA, CORDOBA     | PARQUE EÓLICO REFORMA MUNDIAL                    | 97           | Fase 1 | 30/03/2026        |
| SANTA CATALINA, BOLIVAR | PARQUE EÓLICO VIENTOS DE BOLÍVAR                 | 150          | Fase 2 | 31/12/2027        |
| MAICAO, LA GUAJIRA      | PROYECTO DE GENERACIÓN DE ENERGÍA EÓLICA ELIPSE  | 200          | Fase 2 | 31/12/2025        |
| URIBIA, LA GUAJIRA      | PROYECTO DE GENERACIÓN DE ENERGÍA EÓLICA KAPPA   | 500          | Fase 2 | 31/12/2027        |
| MAICAO, LA GUAJIRA      | PROYECTO DE GENERACIÓN DE ENERGÍA EÓLICA OMEGA   | 300          | Fase 2 | 31/12/2026        |
| PIOJO, ATLANTICO        | SALVADOR   | 80           | Fase 2 | 01/06/2028        |
| TUBARA, ATLANTICO       | YAGUARO  | 90           | Fase 2 | 01/06/2027        |

## Ubicación de los principales proyectos hidráulicos vigentes



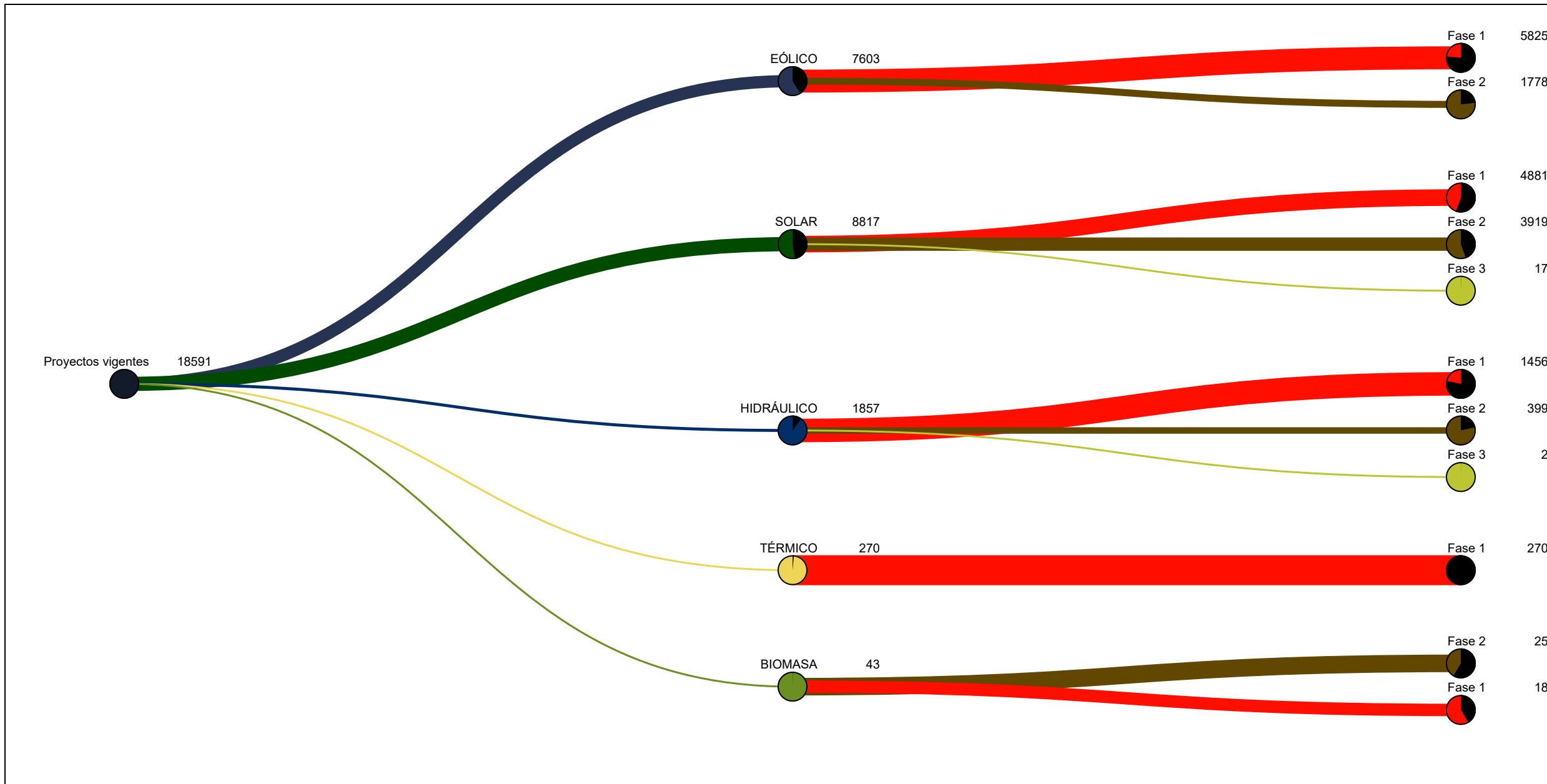
| Municipio-Departamento        | Nombre Proyecto                             | Capacidad MW | Estado | Entrada Operacion |
|-------------------------------|---|--------------|--------|-------------------|
| EL TAMBO, CAUCA               | PROYECTO HIDROELÉCTRICO MICAY               | 800          | Fase 1 | 20/03/2029        |
| CHAPARRAL, TOLIMA             | PROYECTO HIDRO ELECTRICO HIDRO IRCO         | 200          | Fase 1 | 01/02/2026        |
| PUERTO NARE, ANTIOQUIA        | PROYECTO HIDROELÉCTRICO PALAGUA             | 98           | Fase 2 | 30/11/2030        |
| URRAO, ANTIOQUIA              | CH SABANAS                                  | 90           | Fase 1 | 01/12/2028        |
| BUENAVENTURA, VALLE DEL CAUCA | PROYECTO HIDROELÉCTRICO DANUBIO             | 75           | Fase 1 | 01/04/2028        |
| SAN ANDRES, ANTIOQUIA         | CH CUERQUIA                                 | 68           | Fase 1 | 01/12/2029        |
| RONCESVALLES, TOLIMA          | PROYECTO HIDROELECTRICO DEL RIO CHILÍ       | 66           | Fase 2 | 30/12/2029        |
| REMEDIOS, ANTIOQUIA           | PROYECTO HIDROELÉCTRICO SAN BARTOLOMÉ       | 50           | Fase 2 | 30/06/2028        |
| CHAPARRAL, TOLIMA             | PROYECTO HIDROELECTRICO DEL RÍO AMBEIMA     | 45           | Fase 2 | 30/12/2029        |
| SUAITA, SANTANDER             | PROYECTO HIDROELÉCTRICO ALTAMIRA            | 21           | Fase 2 | 30/03/2026        |
| PUENTE NACIONAL, SANTANDER    | PCH PLANADA                                 | 20           | Fase 2 | 13/08/2030        |
| SUAITA, SANTANDER             | PROYECTO HIDROELÉCTRICO SANTA ROSA          | 20           | Fase 2 | 30/08/2025        |
| YOLOMBO, ANTIOQUIA            | PROYECTO HIDROELÉCTRICO CAMILO C. RESTREPO  | 20           | Fase 1 | 01/05/2026        |
| PUENTE NACIONAL, SANTANDER    | PCH PALMAR                                  | 19           | Fase 2 | 31/12/2026        |
| EL COLEGIO, CUNDINAMARCA      | PEQUEÑA CENTRAL HIDROELÉCTRICA PCH ANAPOIMA | 18           | Fase 1 | 20/06/2025        |
| PUENTE NACIONAL, SANTANDER    | PCH SALITRE                                 | 16           | Fase 2 | 30/12/2027        |

## Ubicación de los principales proyectos térmicos vigentes

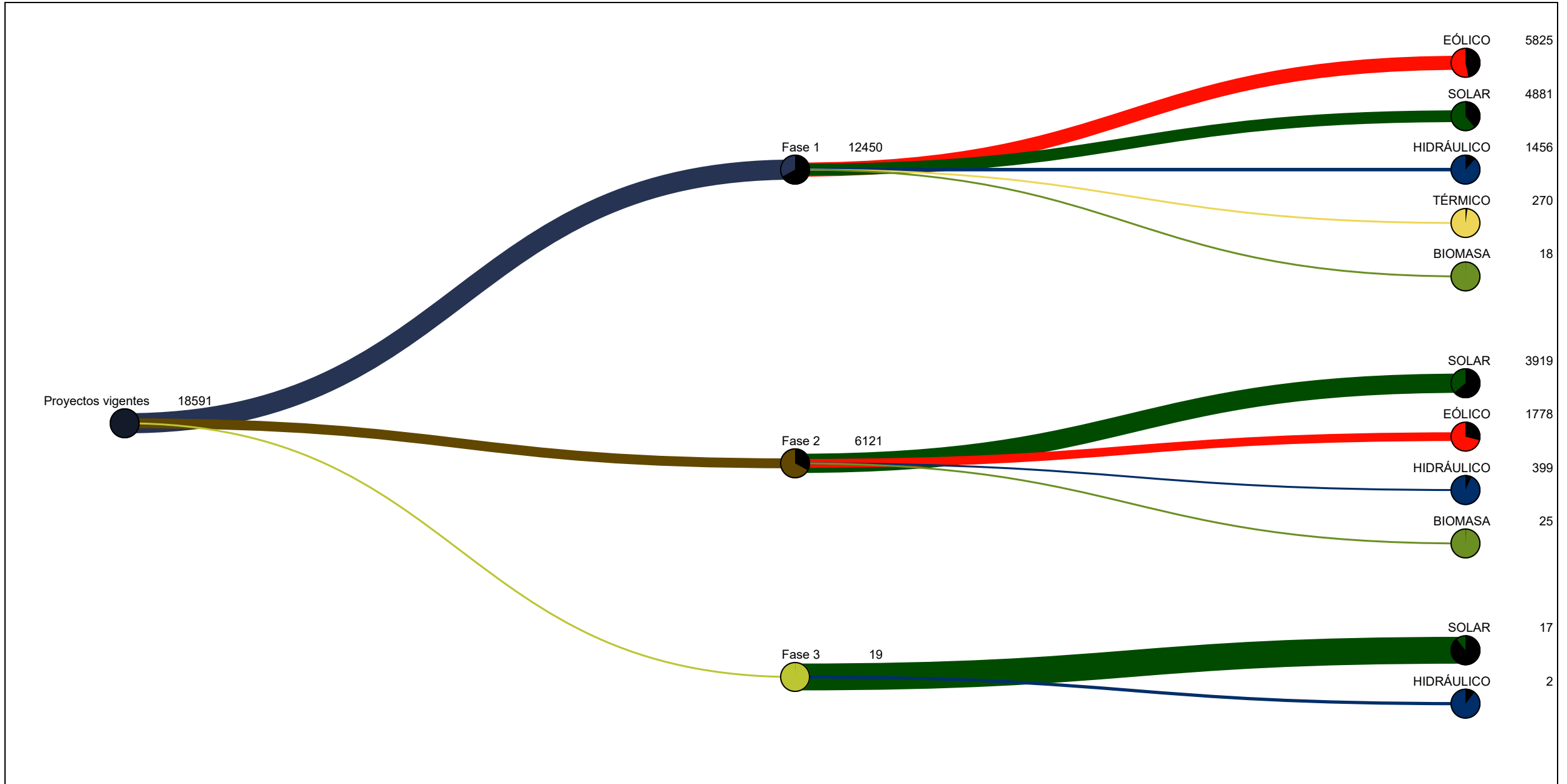


| Municipio-Departamento        | Nombre Proyecto | Capacidad MW | Estado | Entrada Operacion |
|-------------------------------|-----------------|--------------|--------|-------------------|
| BUENAVENTURA, VALLE DEL CAUCA | TERMOANDES      | 270          | Fase 1 | 02/03/2026        |

## Capacidad de proyectos vigentes por tipo (MW)

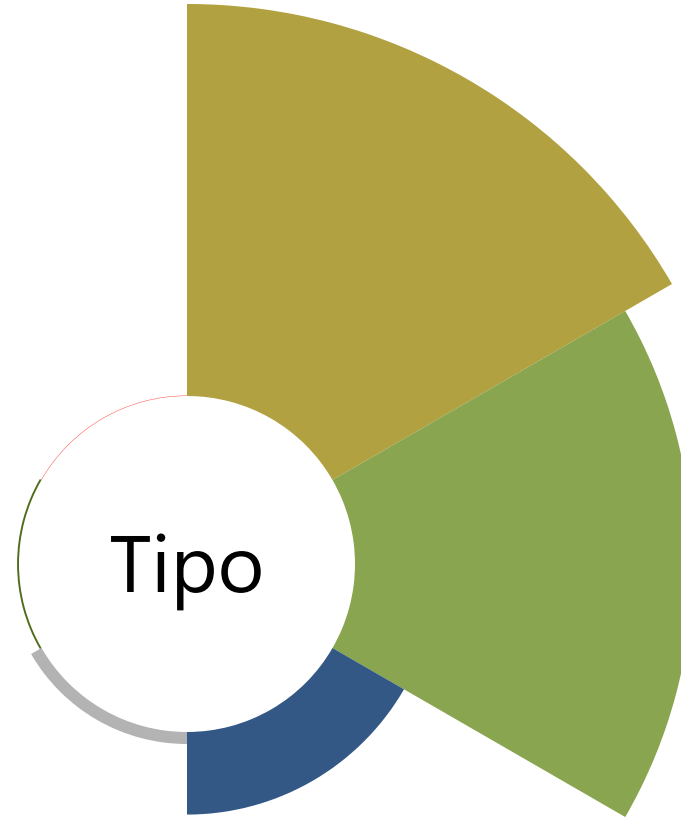
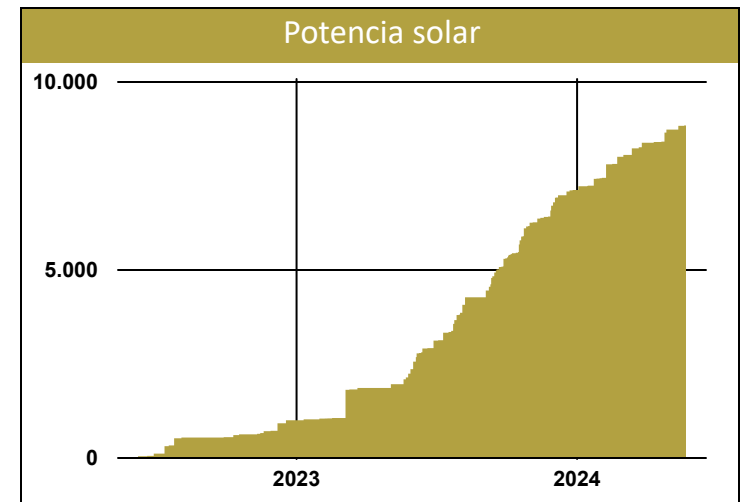
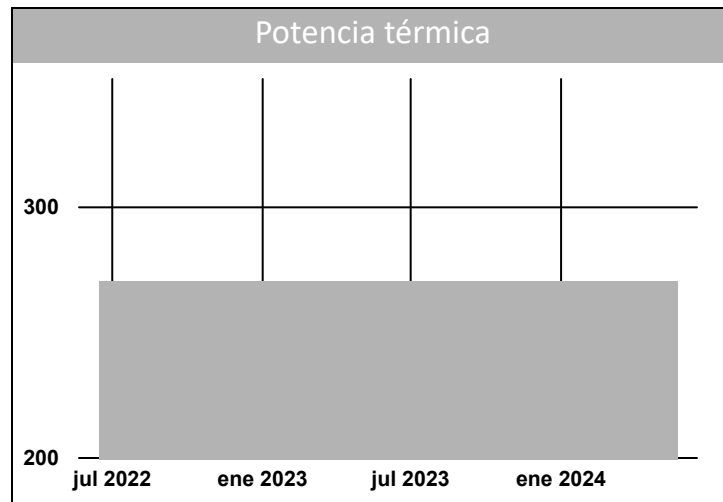
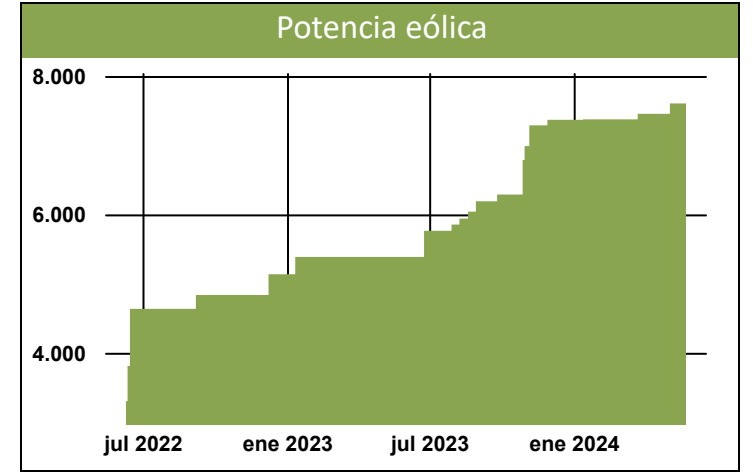
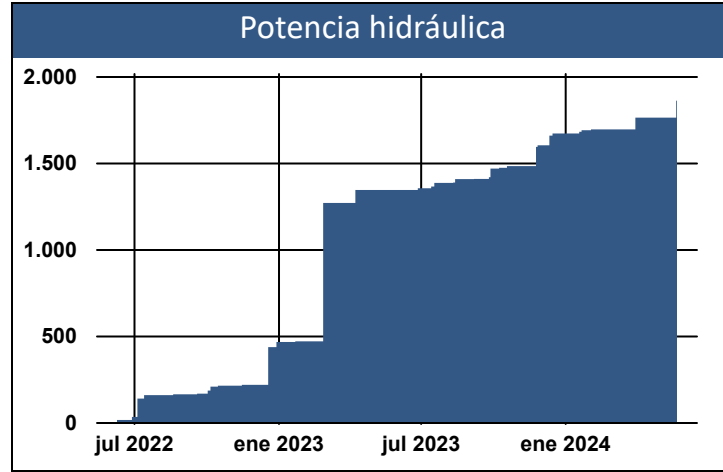


## Capacidad de proyectos vigentes por estado (MW)



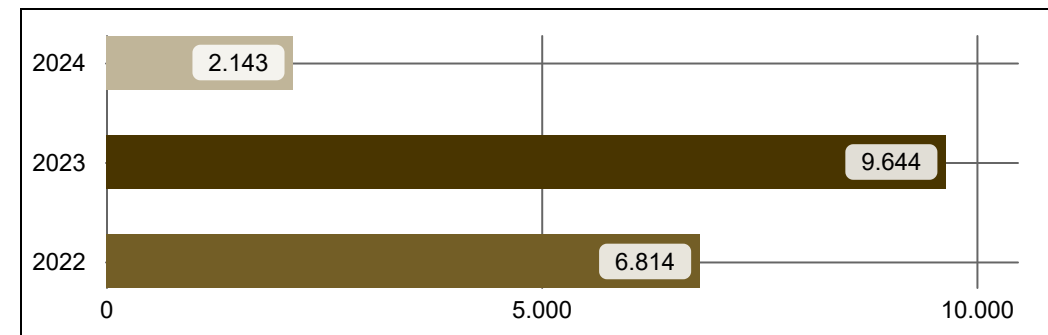
## Capacidad de proyectos vigentes por tipo (MW)

● SOLAR ● EÓLICO ● HIDRÁULICO ● TÉRMICO ● BIOMASA ● GEOTÉRMICO

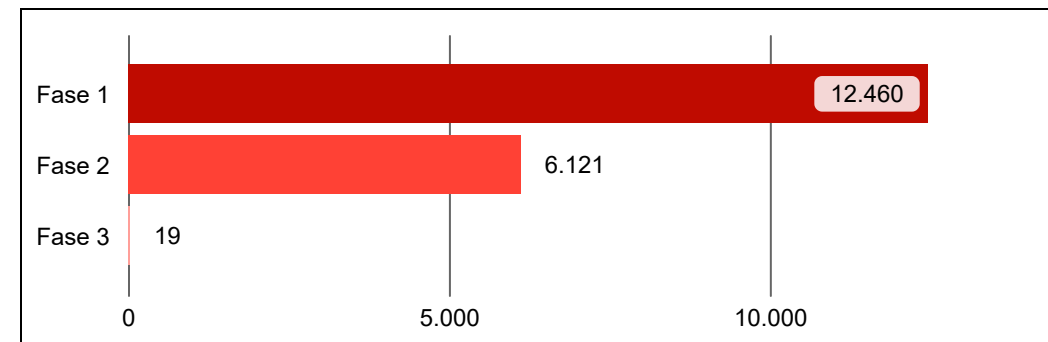


## Capacidad de proyectos vigentes por tipo (MW)

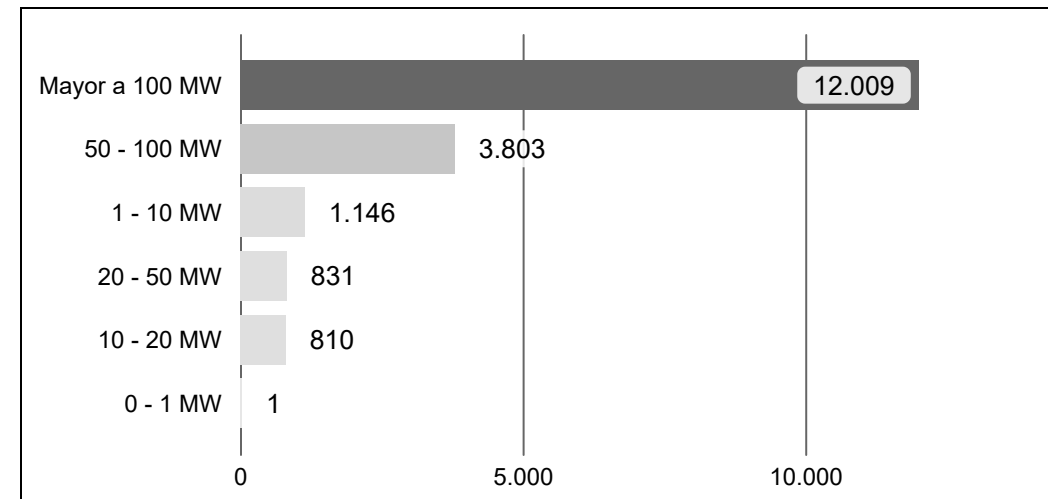
| ▲ Año        | BIOMASA   | EÓLICO       | GEOTÉRMICO | HIDRÁULICO   | SOLAR        | TÉRMICO    | Total         |
|--------------|-----------|--------------|------------|--------------|--------------|------------|---------------|
| 2022         |           | 5.135        |            | 433          | 977          | 270        | 6.814         |
| 2023         | 43        | 2.232        | 10         | 1.235        | 6.124        |            | 9.644         |
| 2024         |           | 237          |            | 190          | 1.717        |            | 2.143         |
| <b>Total</b> | <b>43</b> | <b>7.603</b> | <b>10</b>  | <b>1.857</b> | <b>8.817</b> | <b>270</b> | <b>18.601</b> |



| ▼ Estado     | BIOMASA   | EÓLICO       | GEOTÉRMICO | HIDRÁULICO   | SOLAR        | TÉRMICO    | Total         |
|--------------|-----------|--------------|------------|--------------|--------------|------------|---------------|
| Fase 3       |           |              |            | 2            | 17           |            | 19            |
| Fase 2       | 25        | 1.778        |            | 399          | 3.919        |            | 6.121         |
| Fase 1       | 18        | 5.825        | 10         | 1.456        | 4.881        | 270        | 12.460        |
| <b>Total</b> | <b>43</b> | <b>7.603</b> | <b>10</b>  | <b>1.857</b> | <b>8.817</b> | <b>270</b> | <b>18.601</b> |

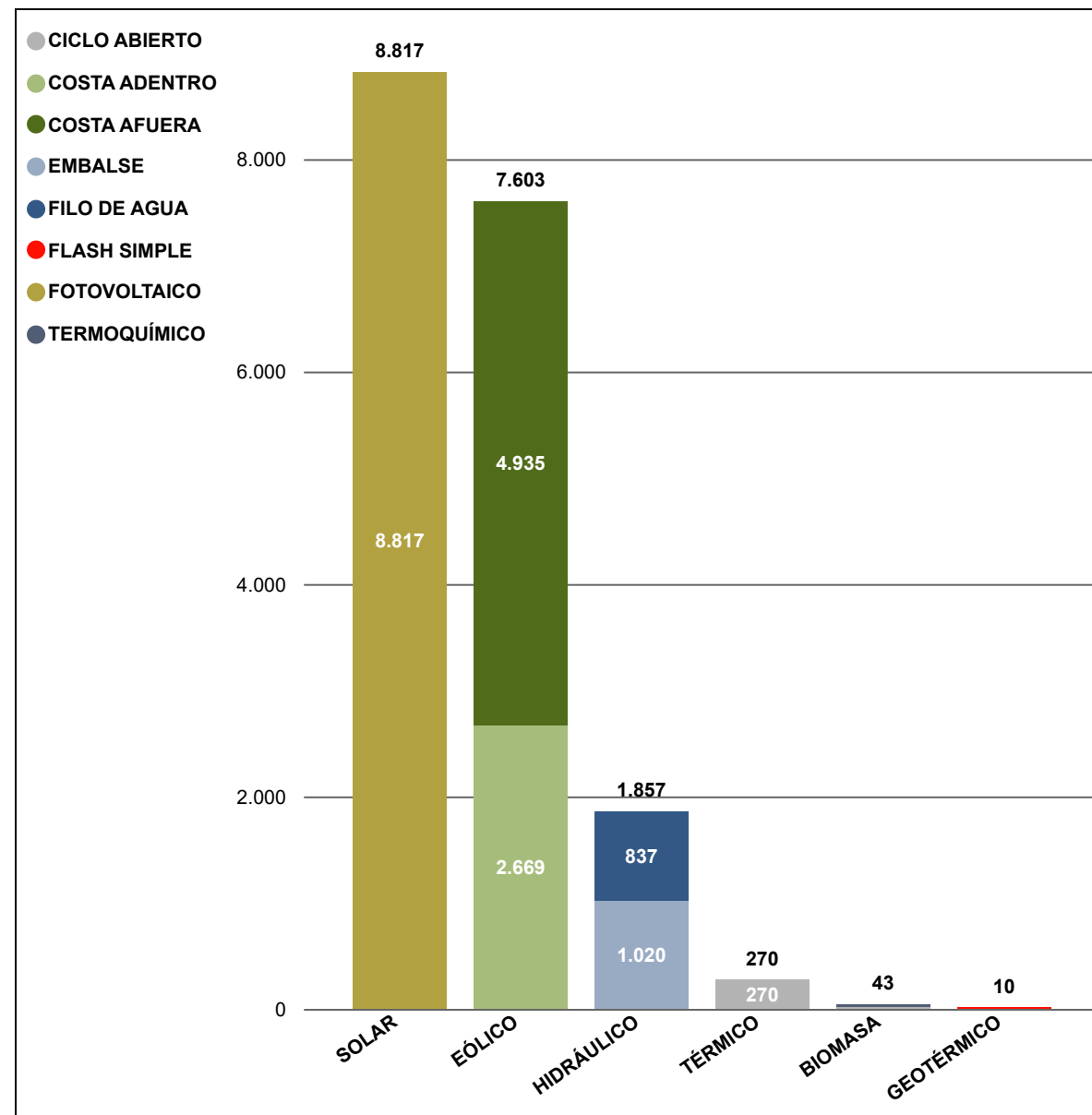


| ▲ Rango        | BIOMASA   | EÓLICO       | GEOTÉRMICO | HIDRÁULICO   | SOLAR        | TÉRMICO    | Total         |
|----------------|-----------|--------------|------------|--------------|--------------|------------|---------------|
| 0 - 1 MW       |           |              |            | 1            | 0            |            | 1             |
| 1 - 10 MW      | 18        | 13           | 10         | 157          | 948          |            | 1.146         |
| 10 - 20 MW     |           |              |            | 186          | 624          |            | 810           |
| 20 - 50 MW     | 25        | 200          |            | 116          | 490          |            | 831           |
| 50 - 100 MW    |           | 527          |            | 397          | 2.879        |            | 3.803         |
| Mayor a 100 MW |           | 6.863        |            | 1.000        | 3.876        | 270        | 12.009        |
| <b>Total</b>   | <b>43</b> | <b>7.603</b> | <b>10</b>  | <b>1.857</b> | <b>8.817</b> | <b>270</b> | <b>18.601</b> |



## Potencia de proyectos vigentes MW

| Recurso                  | BIOMASA   | EÓLICO       | GEOTÉRMICO | HIDRÁULICO   | SOLAR        | TÉRMICO    | Total         |
|--------------------------|-----------|--------------|------------|--------------|--------------|------------|---------------|
| AGUA                     |           |              |            | 1.857        |              |            | 1.857         |
| EMBALSE                  |           |              |            | 1.020        |              |            | 1.020         |
| FILO DE AGUA             |           |              |            | 837          |              |            | 837           |
| CULTIVO ENERGÉTICO       | 25        |              |            |              |              |            | 25            |
| CICLO ABIERTO            | 25        |              |            |              |              |            | 25            |
| GAS NATURAL              |           |              |            |              |              | 270        | 270           |
| CICLO ABIERTO            |           |              |            |              |              | 270        | 270           |
| RESIDUOS SÓLIDOS URBANOS | 18        |              |            |              |              |            | 18            |
| TERMOQUÍMICO             | 18        |              |            |              |              |            | 18            |
| SOL                      |           |              |            |              | 8.817        |            | 8.817         |
| FOTOVOLTAICO             |           |              |            |              | 8.817        |            | 8.817         |
| VAPOR                    |           |              | 10         |              |              |            | 10            |
| FLASH SIMPLE             |           |              | 10         |              |              |            | 10            |
| VIENTO                   |           | 7.603        |            |              |              |            | 7.603         |
| COSTA ADENTRO            |           | 2.669        |            |              |              |            | 2.669         |
| COSTA AFUERA             |           | 4.935        |            |              |              |            | 4.935         |
| <b>Total</b>             | <b>43</b> | <b>7.603</b> | <b>10</b>  | <b>1.857</b> | <b>8.817</b> | <b>270</b> | <b>18.601</b> |

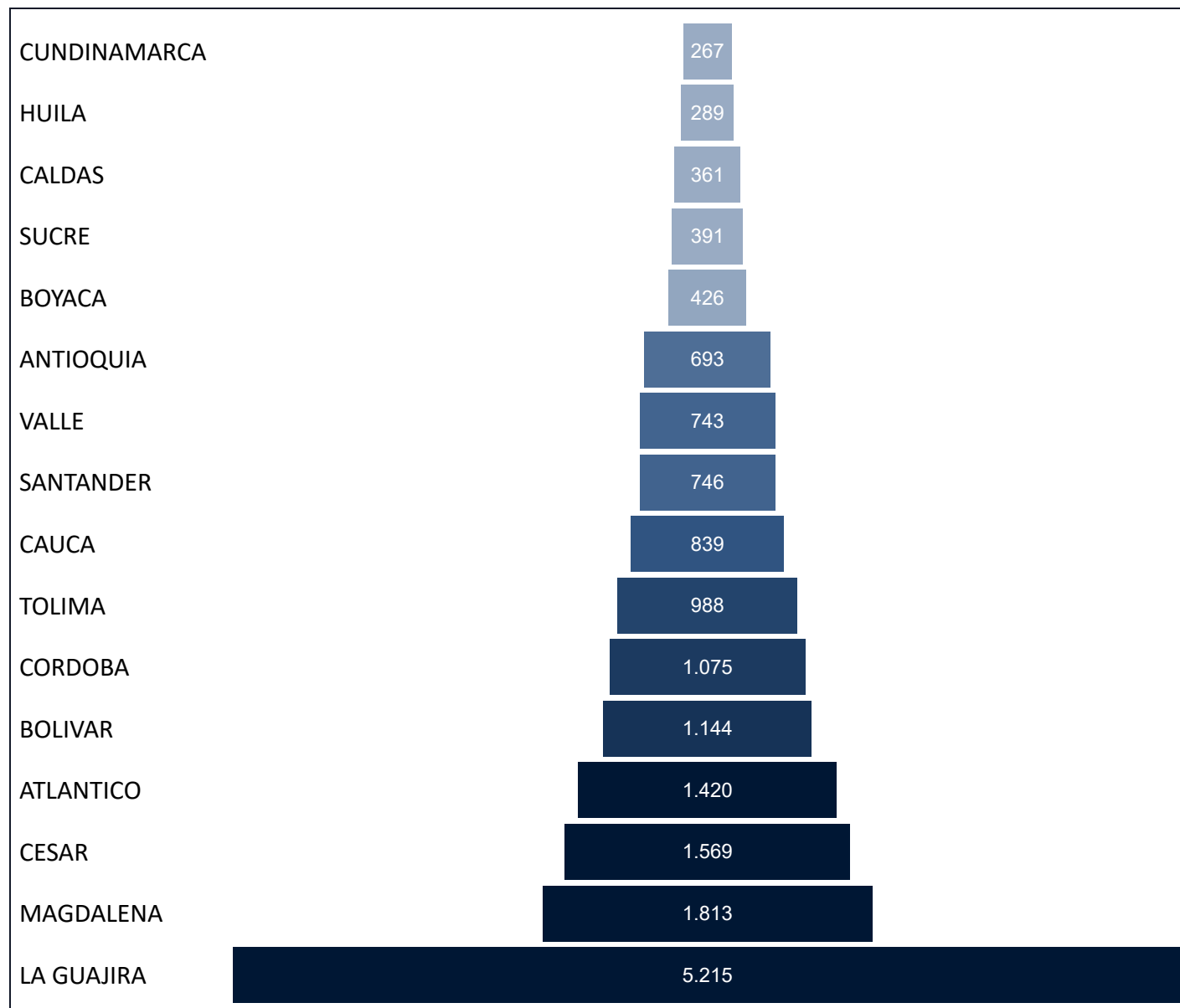


## Capacidad de proyectos vigentes por departamento (MW)

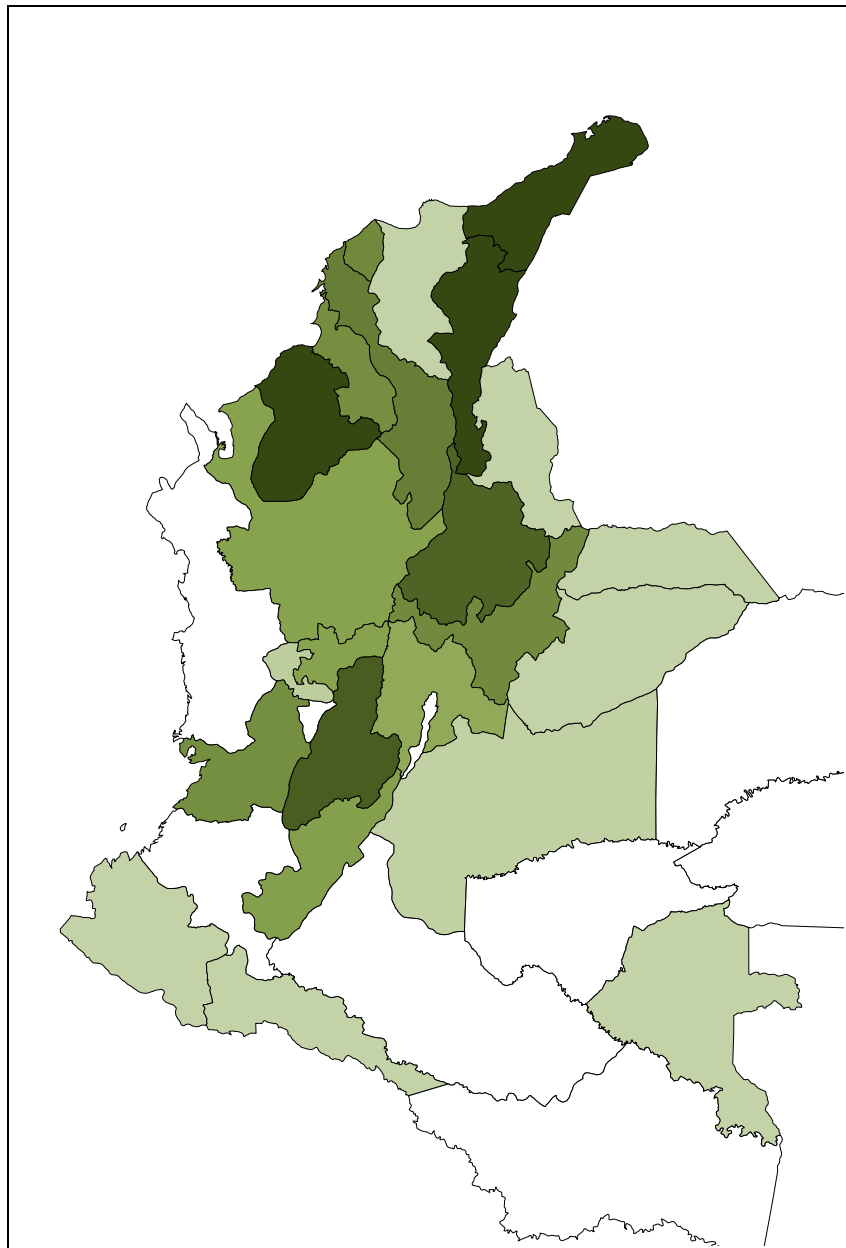
| Departamento | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|---------|--------|------------|------------|-------|---------|-------|
| LA GUAJIRA   |         | 4.008  |            |            | 1.207 |         | 5.215 |
| MAGDALENA    |         | 1.763  |            |            | 50    |         | 1.813 |
| CESAR        |         | 80     |            |            | 1.489 |         | 1.569 |
| ATLANTICO    | 5       | 995    |            |            | 420   |         | 1.420 |
| BOLIVAR      |         | 660    |            |            | 484   |         | 1.144 |
| CORDOBA      |         | 97     |            |            | 978   |         | 1.075 |
| TOLIMA       |         |        |            | 311        | 677   |         | 988   |
| CAUCA        |         |        |            | 839        |       |         | 839   |
| SANTANDER    |         |        |            | 102        | 644   |         | 746   |
| VALLE        | 5       |        |            | 79         | 389   | 270     | 743   |
| ANTIOQUIA    | 8       |        |            | 415        | 270   |         | 693   |
| BOYACA       |         |        | 10         |            | 416   |         | 426   |
| SUCRE        |         |        |            |            | 391   |         | 391   |
| CALDAS       |         |        |            | 88         | 273   |         | 361   |

| Departamento    | BIOMASA | HIDRÁULICO | SOLAR | Total |
|-----------------|---------|------------|-------|-------|
| HUILA           |         |            | 289   | 289   |
| CUNDINAMARCA    |         | 18         | 249   | 267   |
| CASANARE        | 25      |            | 157   | 182   |
| RISARALDA       |         |            | 180   | 180   |
| META            |         |            | 173   | 173   |
| NORTE SANTANDER |         |            | 40    | 40    |
| ARAUCA          |         |            | 20    | 20    |
| PUTUMAYO        |         |            | 10    | 10    |
| VAUPES          |         |            | 8     | 8     |
| QUINDIO         |         | 6          |       | 6     |
| NARIÑO          |         |            | 5     | 5     |

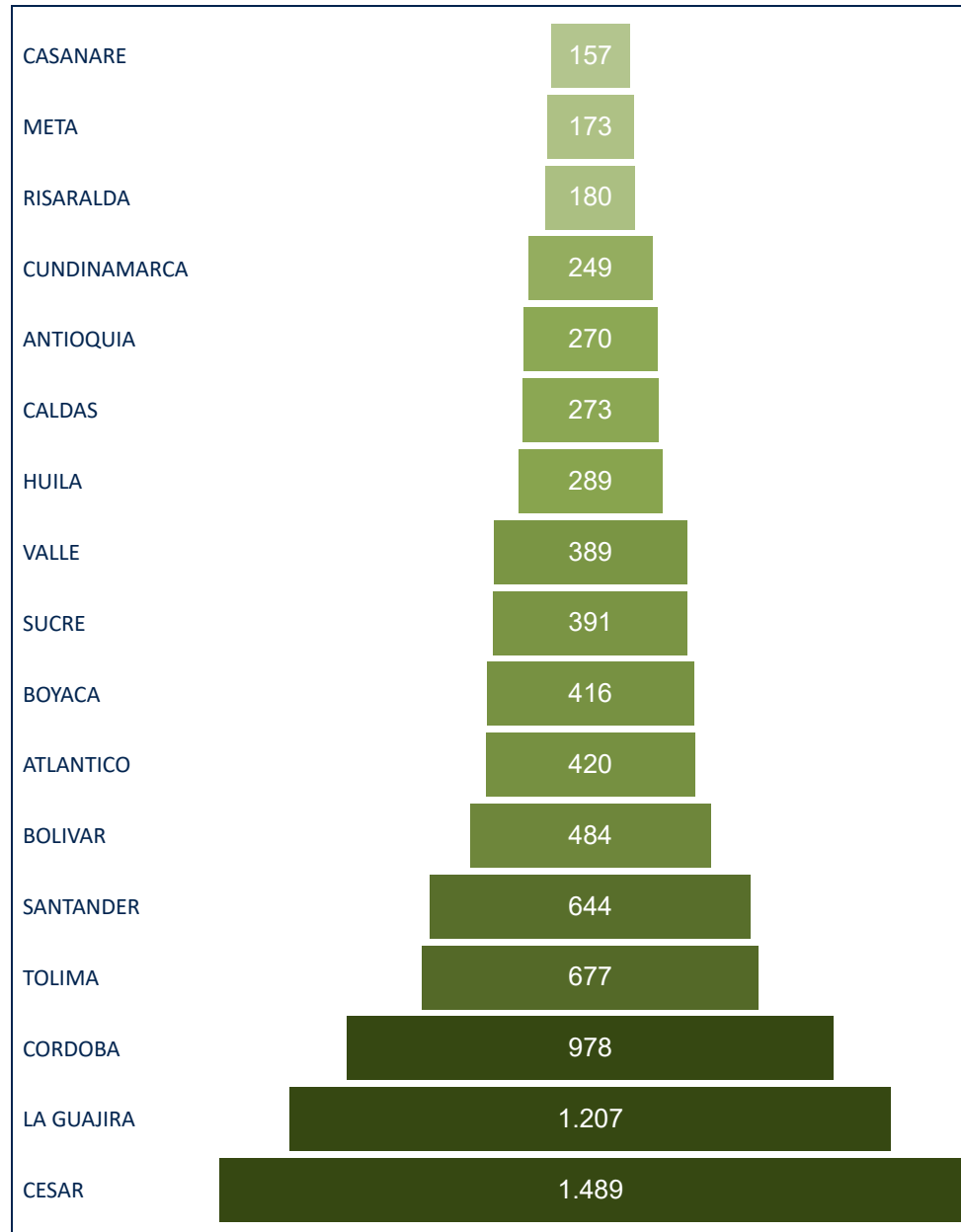
Capacidad de proyectos vigentes por departamento (MW)



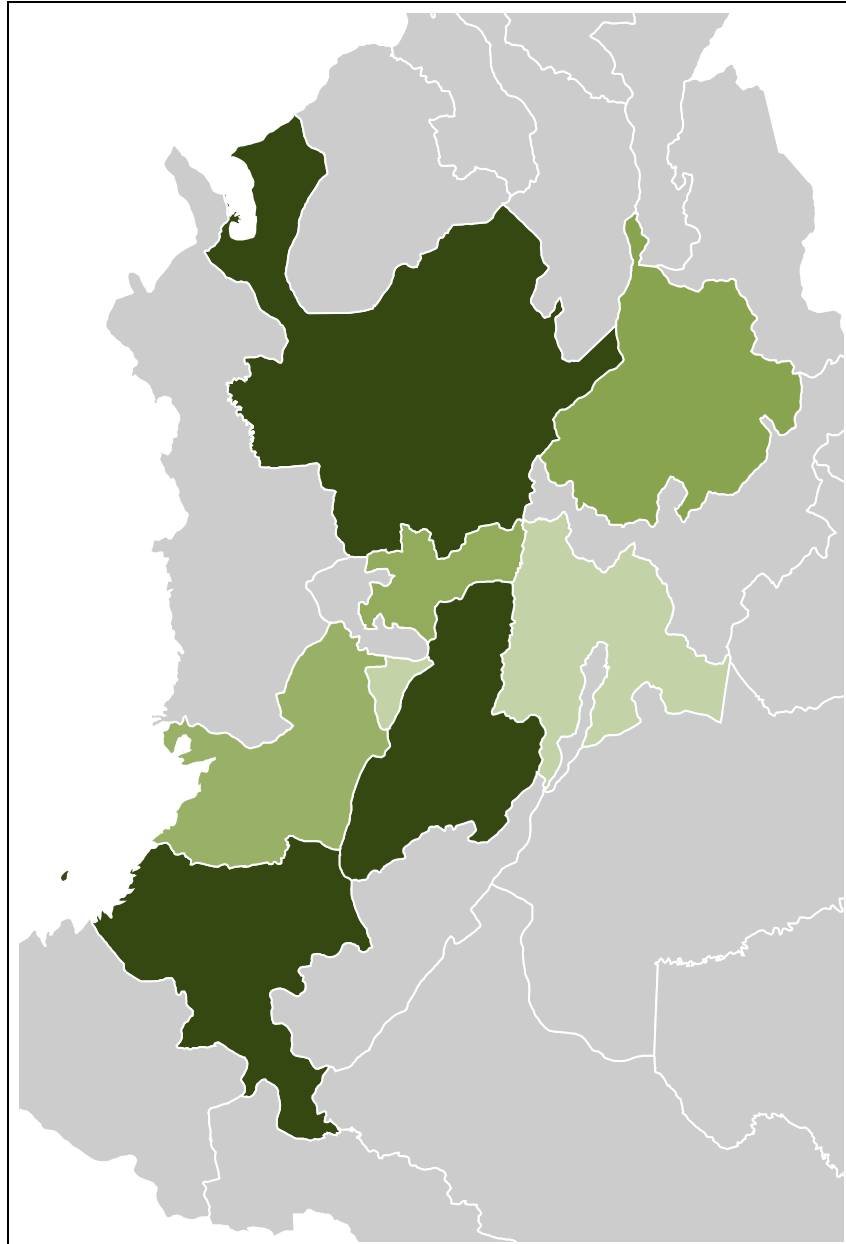
## Capacidad de proyectos solares vigentes (MW)



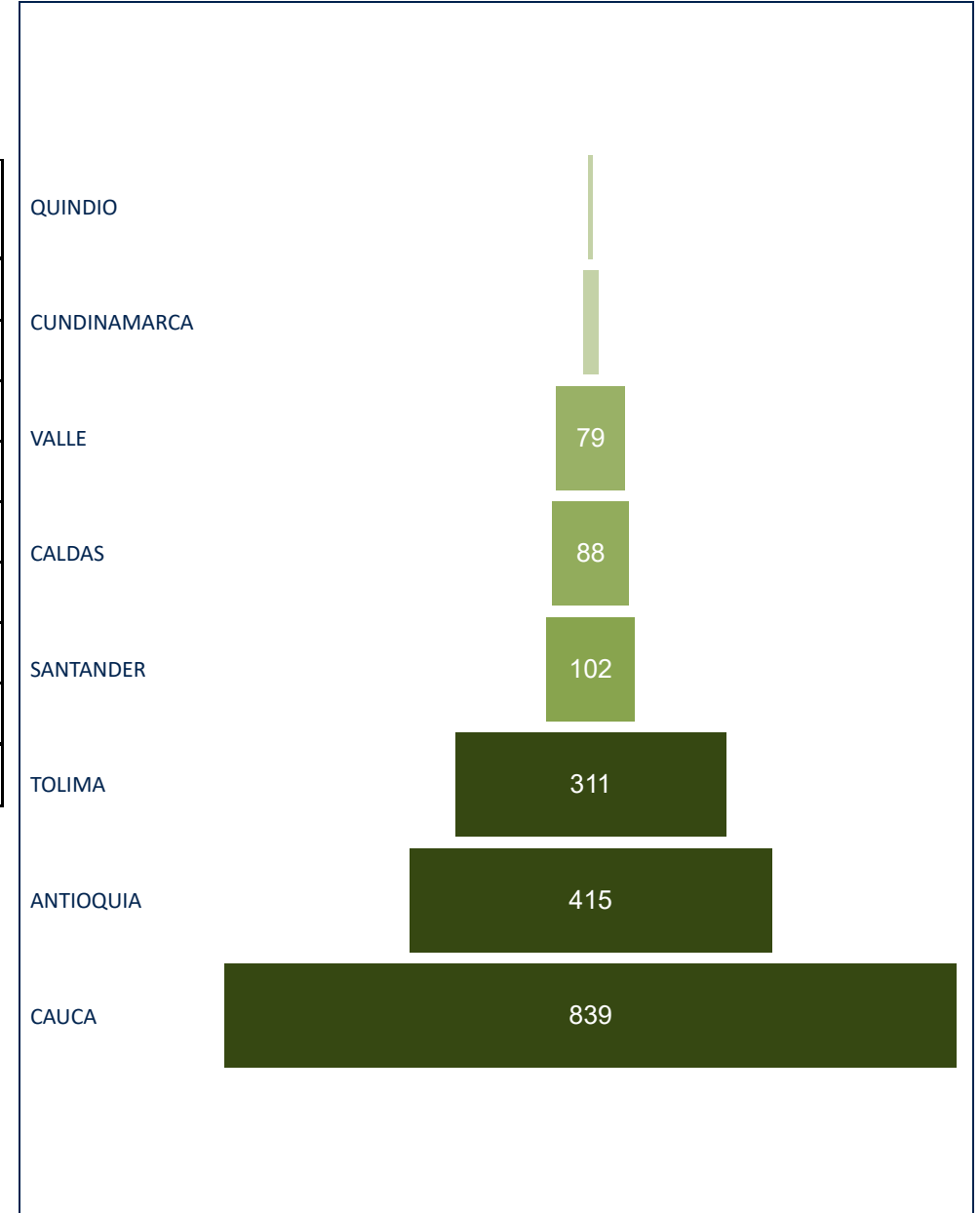
| Departamento    | Número de Proyectos | Capacidad MW |
|-----------------|---------------------|--------------|
| CESAR           | 17                  | 1.489        |
| LA GUAJIRA      | 6                   | 1.207        |
| CORDOBA         | 19                  | 978          |
| TOLIMA          | 23                  | 677          |
| SANTANDER       | 11                  | 644          |
| BOLIVAR         | 24                  | 484          |
| ATLANTICO       | 8                   | 420          |
| BOYACA          | 10                  | 416          |
| SUCRE           | 15                  | 391          |
| VALLE           | 16                  | 389          |
| HUILA           | 12                  | 289          |
| CALDAS          | 6                   | 273          |
| ANTIOQUIA       | 9                   | 270          |
| CUNDINAMARCA    | 8                   | 249          |
| RISARALDA       | 2                   | 180          |
| META            | 2                   | 173          |
| CASANARE        | 4                   | 157          |
| MAGDALENA       | 5                   | 50           |
| NORTE SANTANDER | 1                   | 40           |
| ARAUCA          | 2                   | 20           |
| PUTUMAYO        | 1                   | 10           |
| VAUPES          | 1                   | 8            |
| NARIÑO          | 1                   | 5            |
| <b>Total</b>    | <b>203</b>          | <b>8.817</b> |



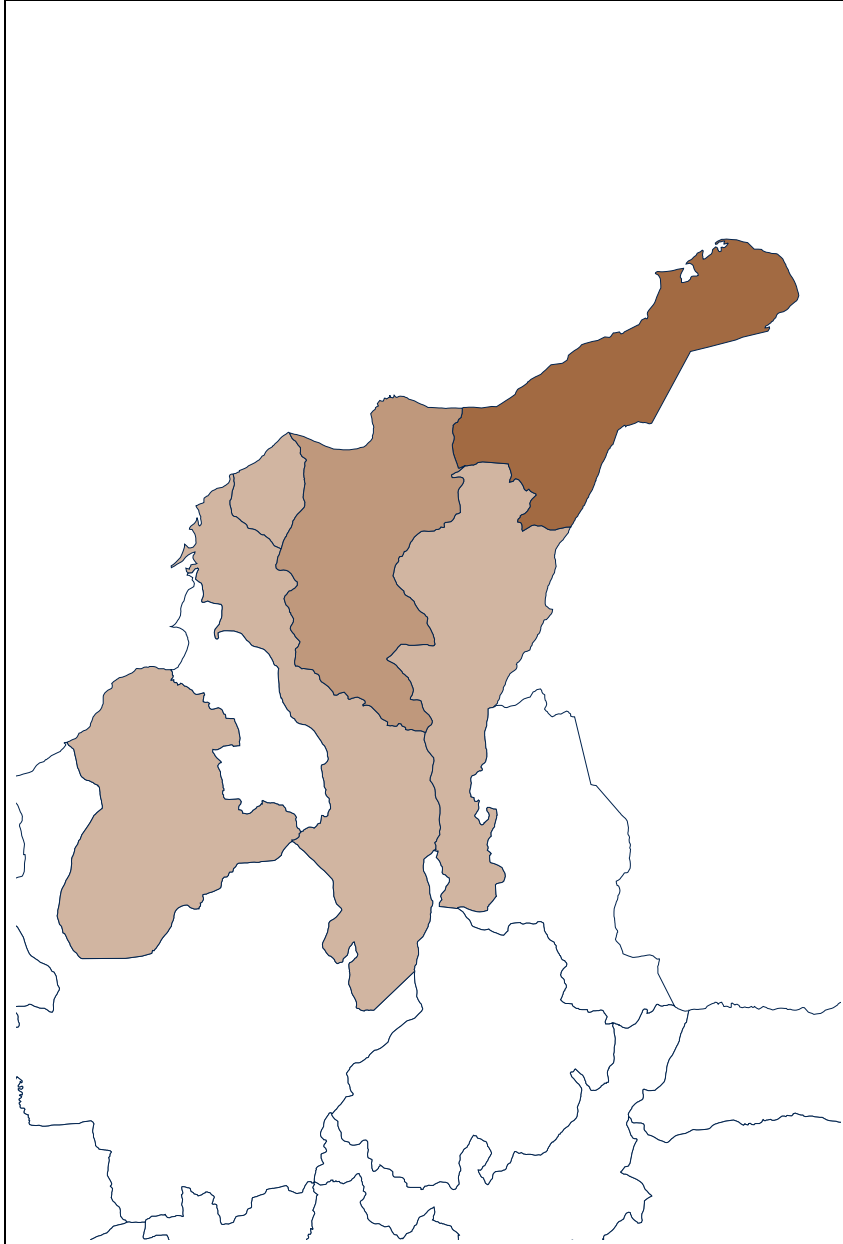
## Capacidad de proyectos hidráulicos vigentes (MW)



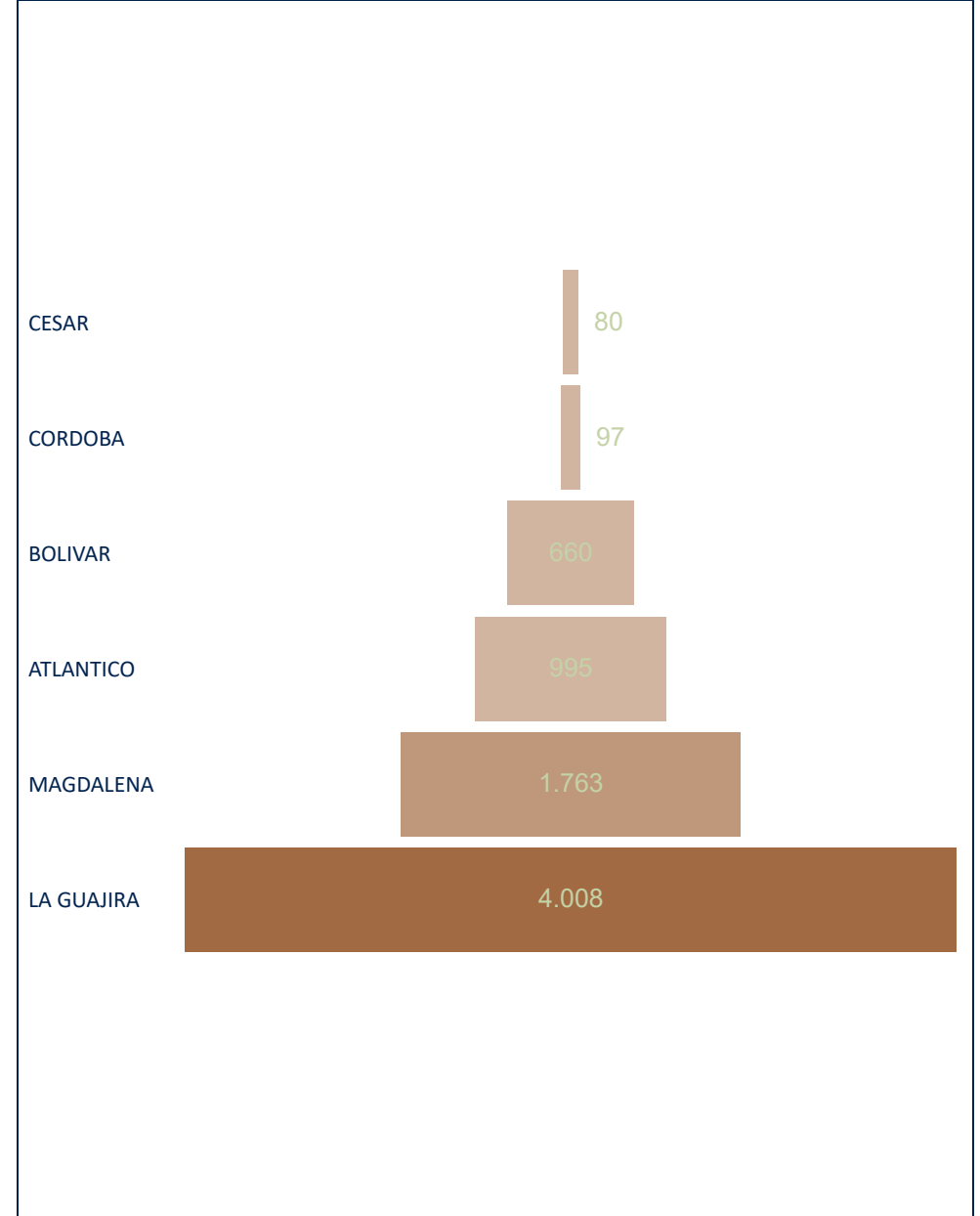
| Departamento | Número de Proyectos | Capacidad MW |
|--------------|---------------------|--------------|
| CAUCA        | 6                   | 839          |
| ANTIOQUIA    | 18                  | 415          |
| TOLIMA       | 3                   | 311          |
| SANTANDER    | 6                   | 102          |
| CALDAS       | 9                   | 88           |
| VALLE        | 2                   | 79           |
| CUNDINAMARCA | 1                   | 18           |
| QUINDIO      | 1                   | 6            |
| <b>Total</b> | <b>46</b>           | <b>1.857</b> |



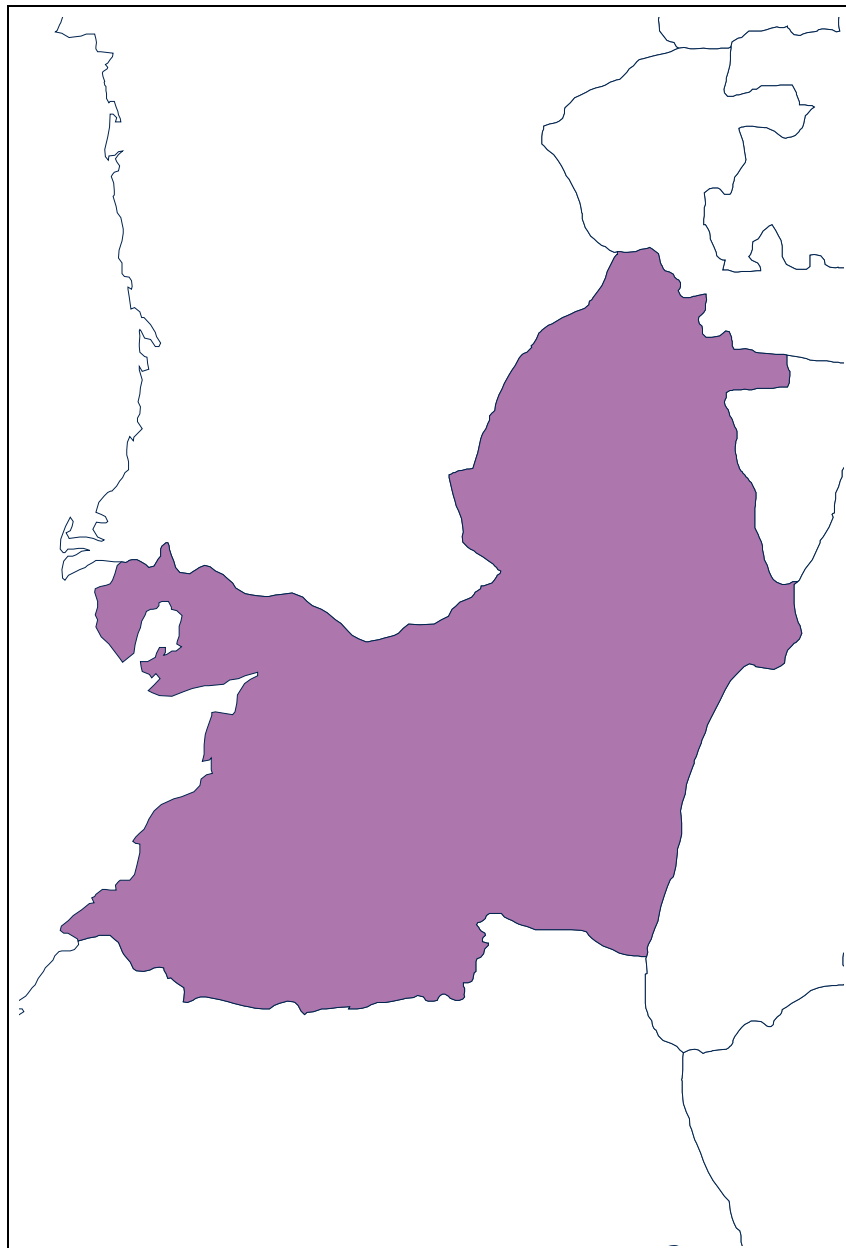
## Capacidad de proyectos eólicos vigentes (MW)



| Departamento | Número de Proyectos | Capacidad MW |
|--------------|---------------------|--------------|
| LA GUAJIRA   | 14                  | 4.008        |
| MAGDALENA    | 5                   | 1.763        |
| ATLANTICO    | 3                   | 995          |
| BOLIVAR      | 2                   | 660          |
| CESAR        | 1                   | 80           |
| CORDOBA      | 1                   | 97           |
| <b>Total</b> | <b>26</b>           | <b>7.603</b> |



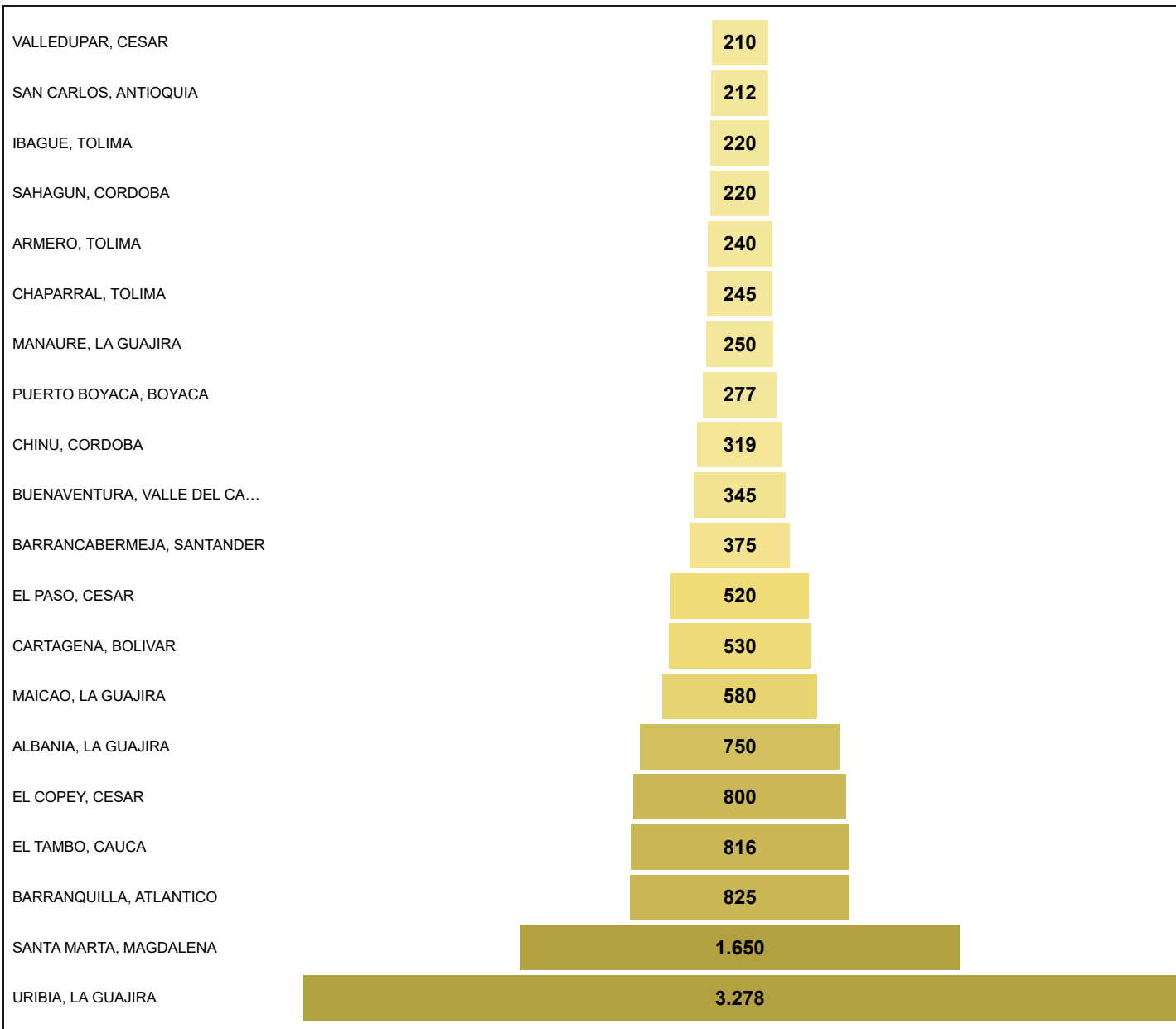
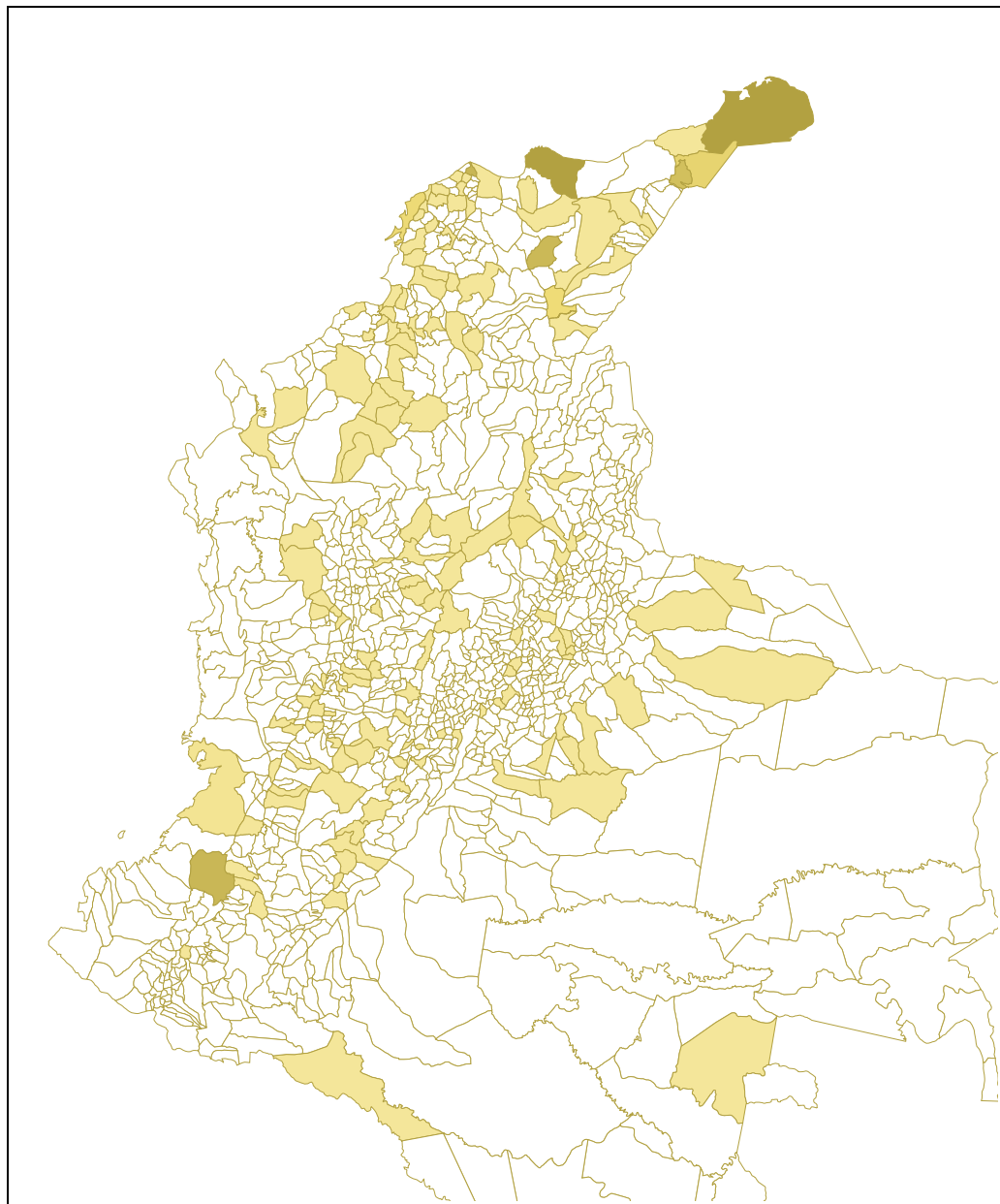
## Capacidad de proyectos térmicos vigentes (MW)



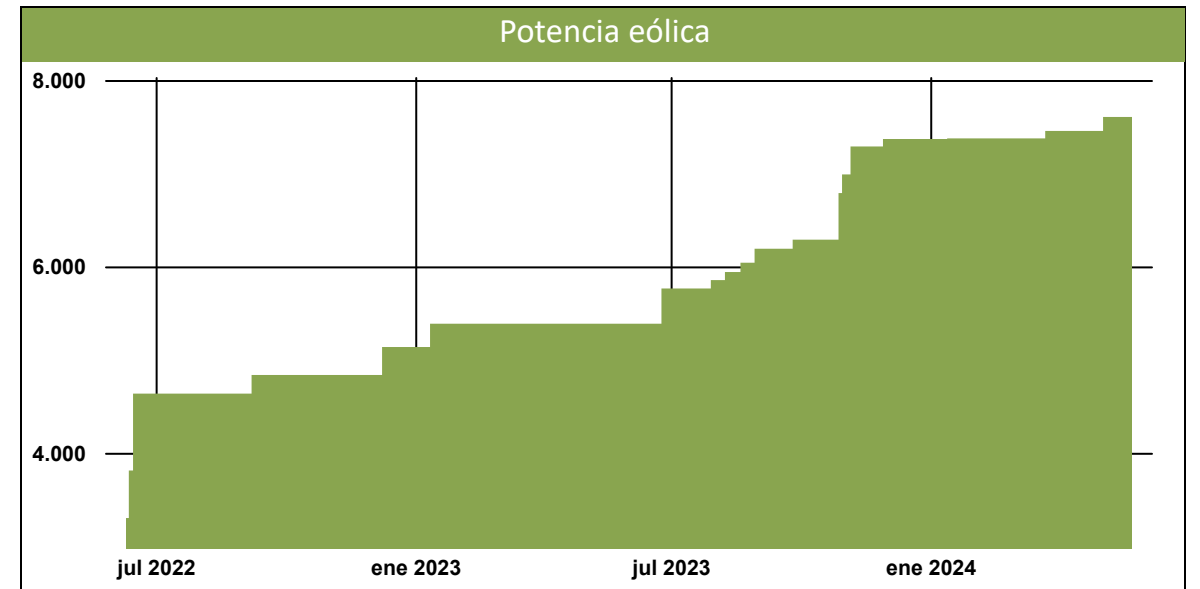
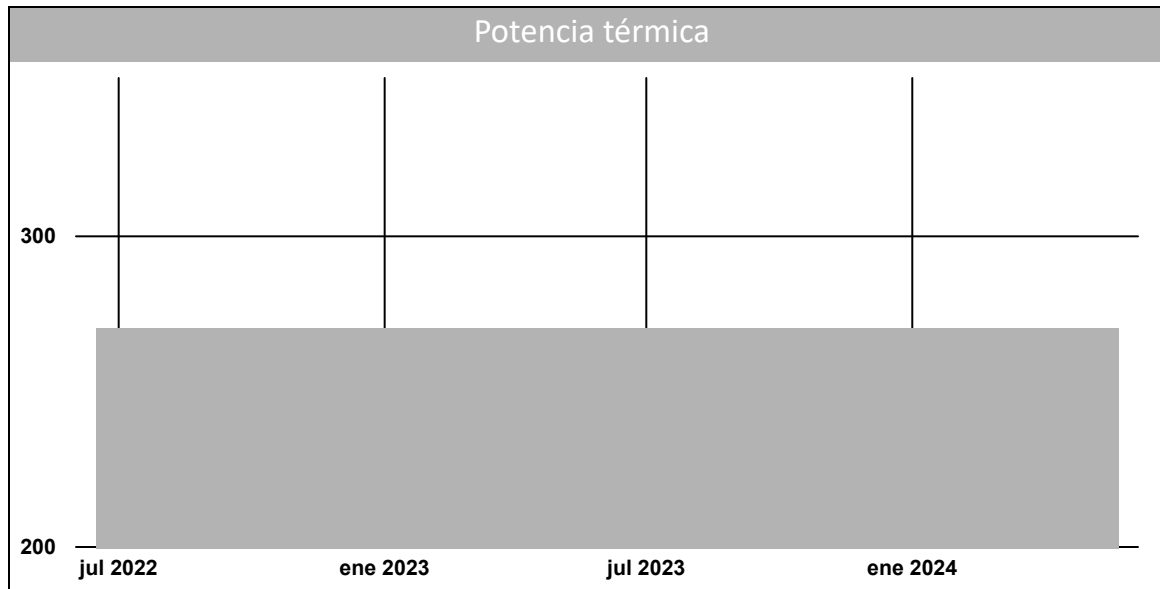
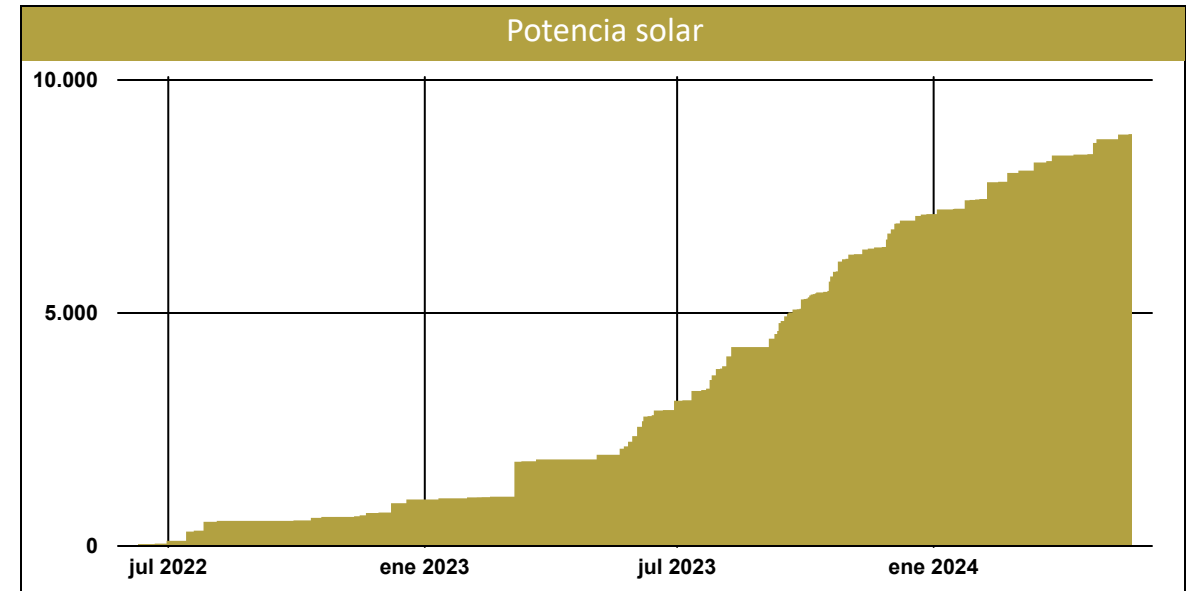
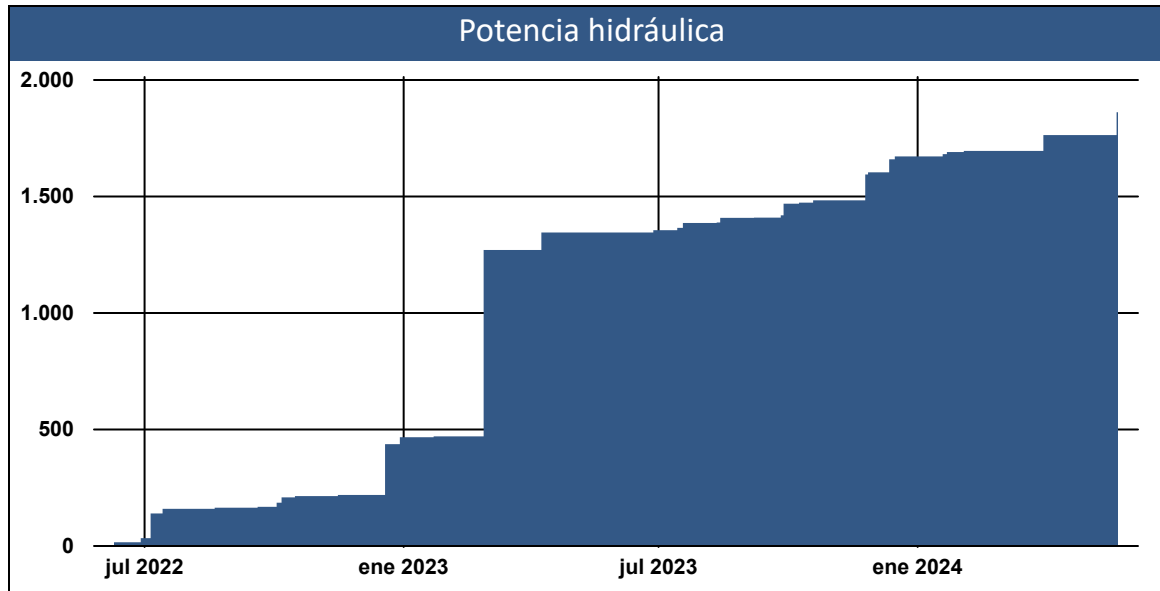
| NC Departamento | Número de Proyectos | Capacidad MW |
|-----------------|---------------------|--------------|
| VALLE           | 1                   | 270          |
| Total           | 1                   | 270          |



## Capacidad de proyectos vigentes por municipio (MW)



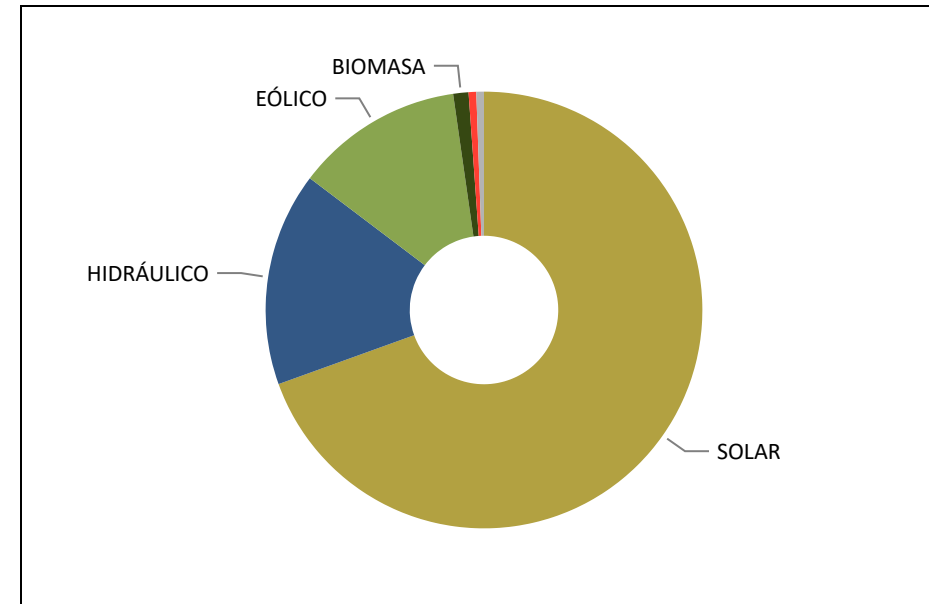
## Evolución de la capacidad de proyectos vigentes por tipo (MW)



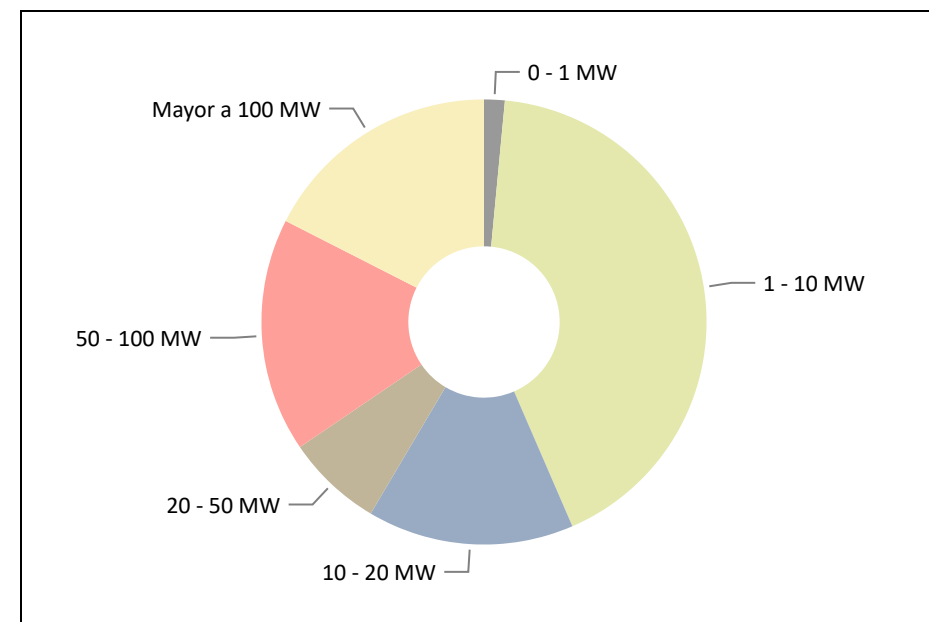


## Número de promotores

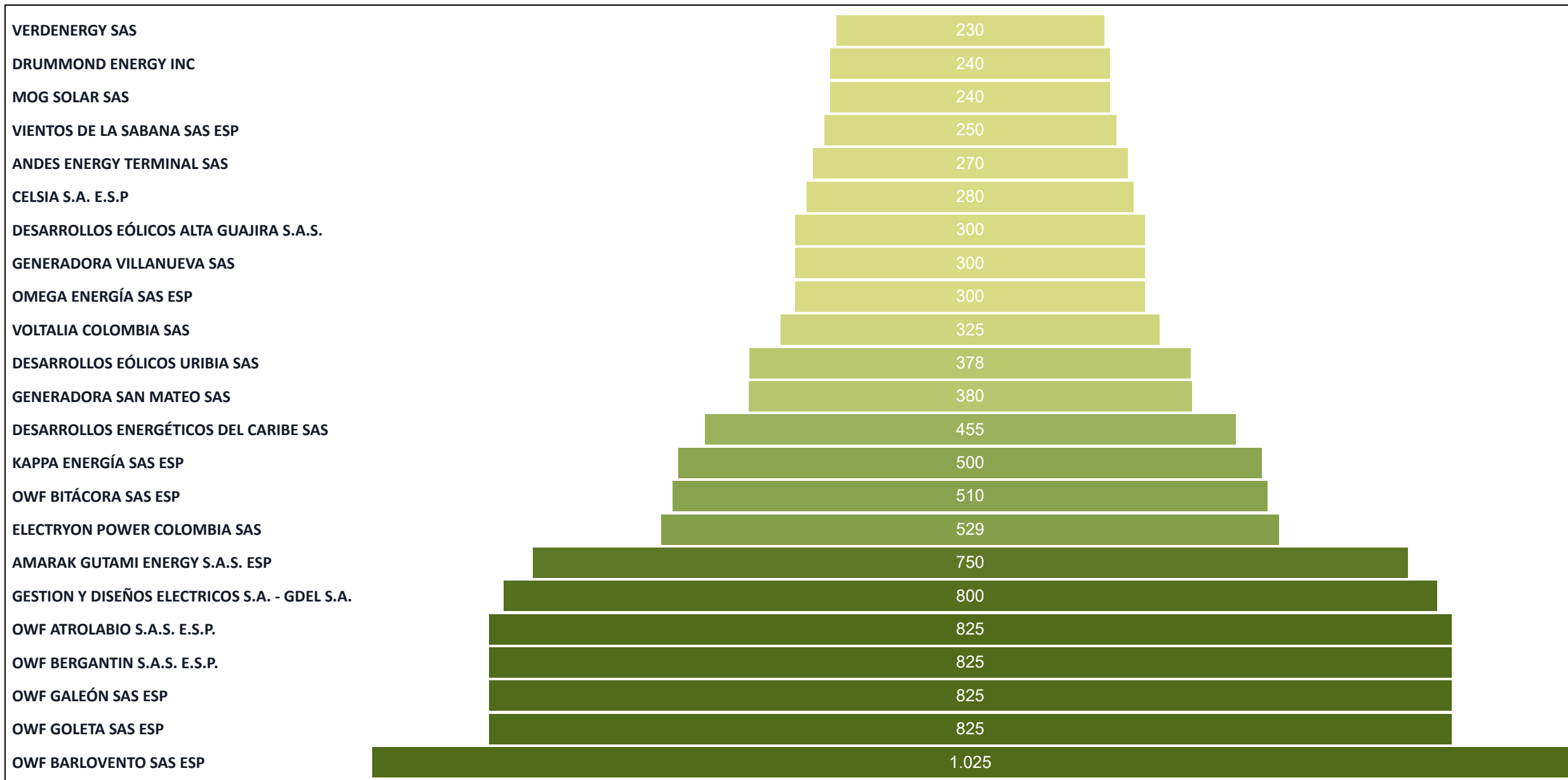
| Rango          | BIOMASA  | EÓLICO    | GEOTÉRMICO | HIDRÁULICO | SOLAR      | TÉRMICO  | Total      |
|----------------|----------|-----------|------------|------------|------------|----------|------------|
| Mayor a 100 MW |          | 14        |            | 2          | 18         | 1        | 35         |
| 50 - 100 MW    |          | 6         |            | 5          | 23         |          | 34         |
| 20 - 50 MW     | 1        | 1         |            | 3          | 9          |          | 14         |
| 10 - 20 MW     |          |           |            | 7          | 23         |          | 30         |
| 1 - 10 MW      | 1        | 2         | 1          | 15         | 67         |          | 84         |
| 0 - 1 MW       |          |           |            | 1          | 2          |          | 3          |
| <b>Total</b>   | <b>2</b> | <b>22</b> | <b>1</b>   | <b>28</b>  | <b>123</b> | <b>1</b> | <b>173</b> |



| Rango          | BIOMASA      | EÓLICO        | GEOTÉRMICO   | HIDRÁULICO    | SOLAR         | TÉRMICO      | Total          |
|----------------|--------------|---------------|--------------|---------------|---------------|--------------|----------------|
| Mayor a 100 MW |              | 8,09%         |              | 1,16%         | 10,40%        | 0,58%        | 20,23%         |
| 50 - 100 MW    |              | 3,47%         |              | 2,89%         | 13,29%        |              | 19,65%         |
| 20 - 50 MW     | 0,58%        | 0,58%         |              | 1,73%         | 5,20%         |              | 8,09%          |
| 10 - 20 MW     |              |               |              | 4,05%         | 13,29%        |              | 17,34%         |
| 1 - 10 MW      | 0,58%        | 1,16%         | 0,58%        | 8,67%         | 38,73%        |              | 48,55%         |
| 0 - 1 MW       |              |               |              | 0,58%         | 1,16%         |              | 1,73%          |
| <b>Total</b>   | <b>1,16%</b> | <b>12,72%</b> | <b>0,58%</b> | <b>16,18%</b> | <b>71,10%</b> | <b>0,58%</b> | <b>100,00%</b> |



## Potencia por promotor MW





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