



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 abril 30 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

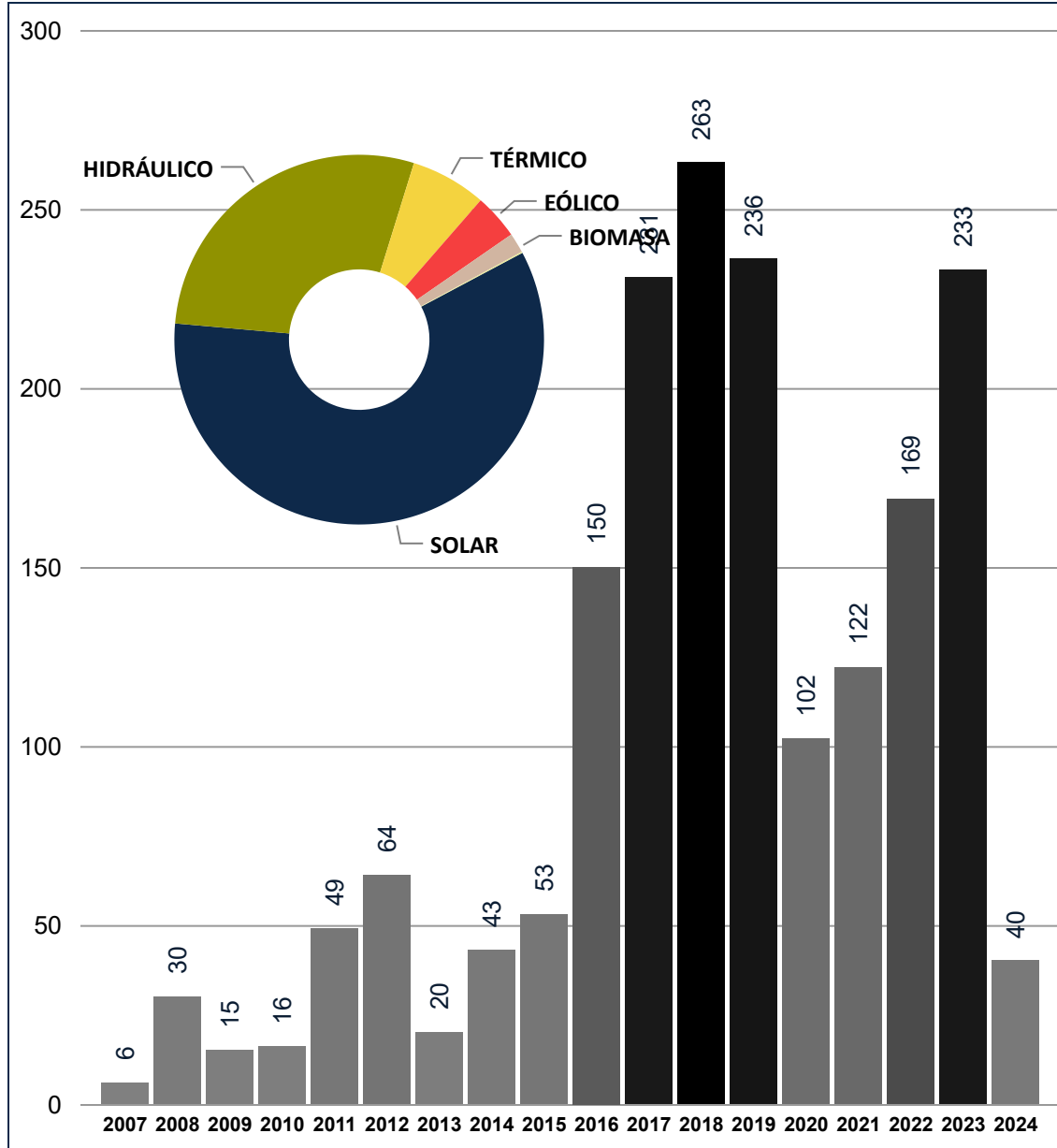
Carlos Fernando Valles Franco

Hecho en Colombia

Año 2024



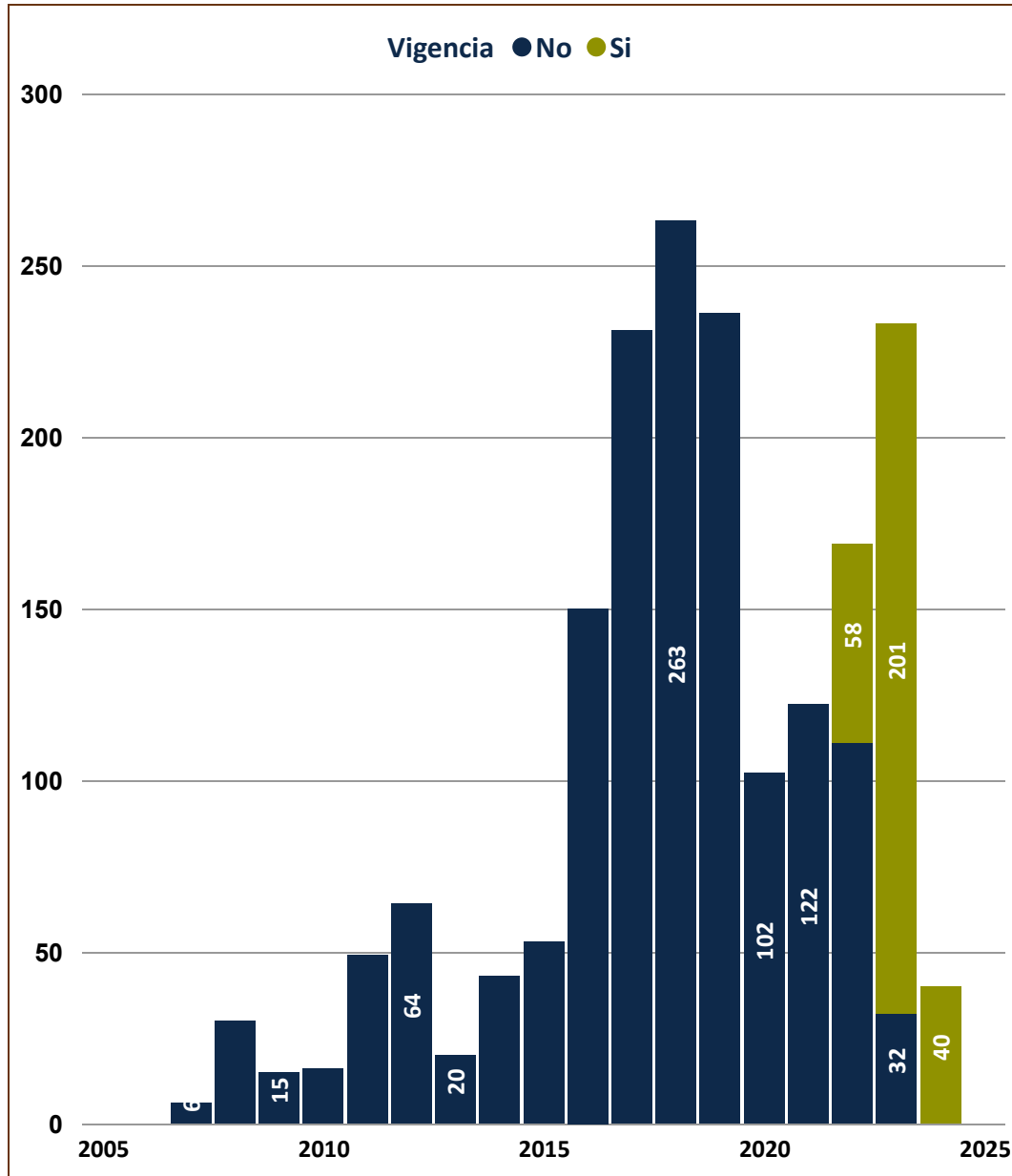
Número de proyectos presentados



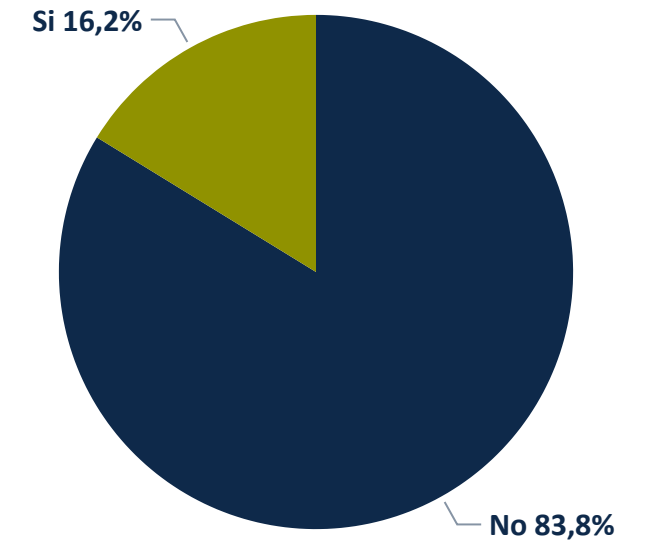
| Año | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-------|---------|--------|------------|------------|-------|---------|-------|
| 2007 | | | | 4 | | 2 | 6 |
| 2008 | | | | 9 | | 21 | 30 |
| 2009 | 1 | | | 14 | | | 15 |
| 2010 | | | | 15 | | 1 | 16 |
| 2011 | 1 | | | 30 | | 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 | 18 | 1 | 26 | 179 | 5 | 233 |
| 2024 | | 2 | | 4 | 34 | | 40 |
| Total | 32 | 73 | 2 | 523 | 1090 | 122 | 1842 |



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 | 111 | 58 | 169 |
| 2023 | 32 | 201 | 233 |
| 2024 | | 40 | 40 |
| Total | 1543 | 299 | 1842 |



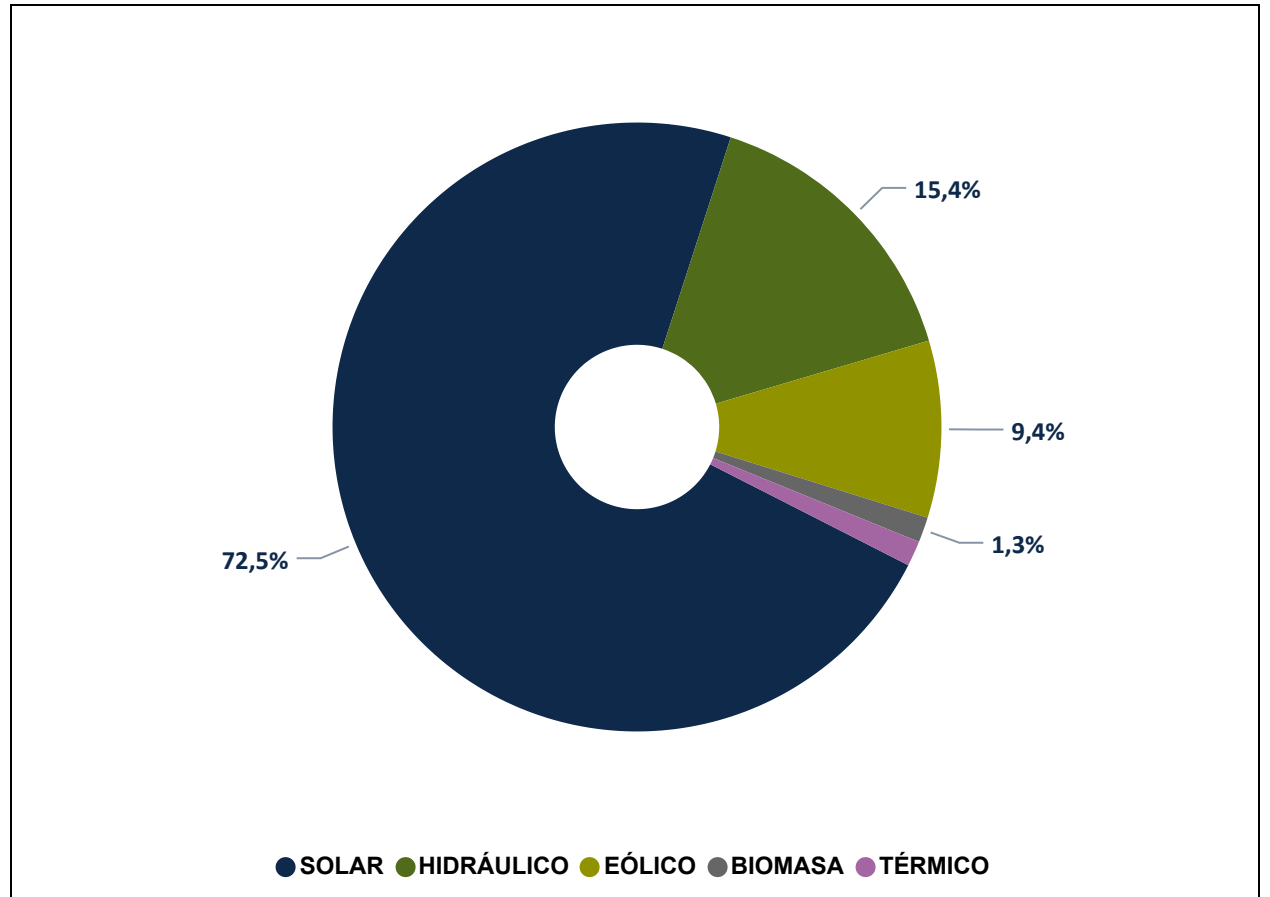
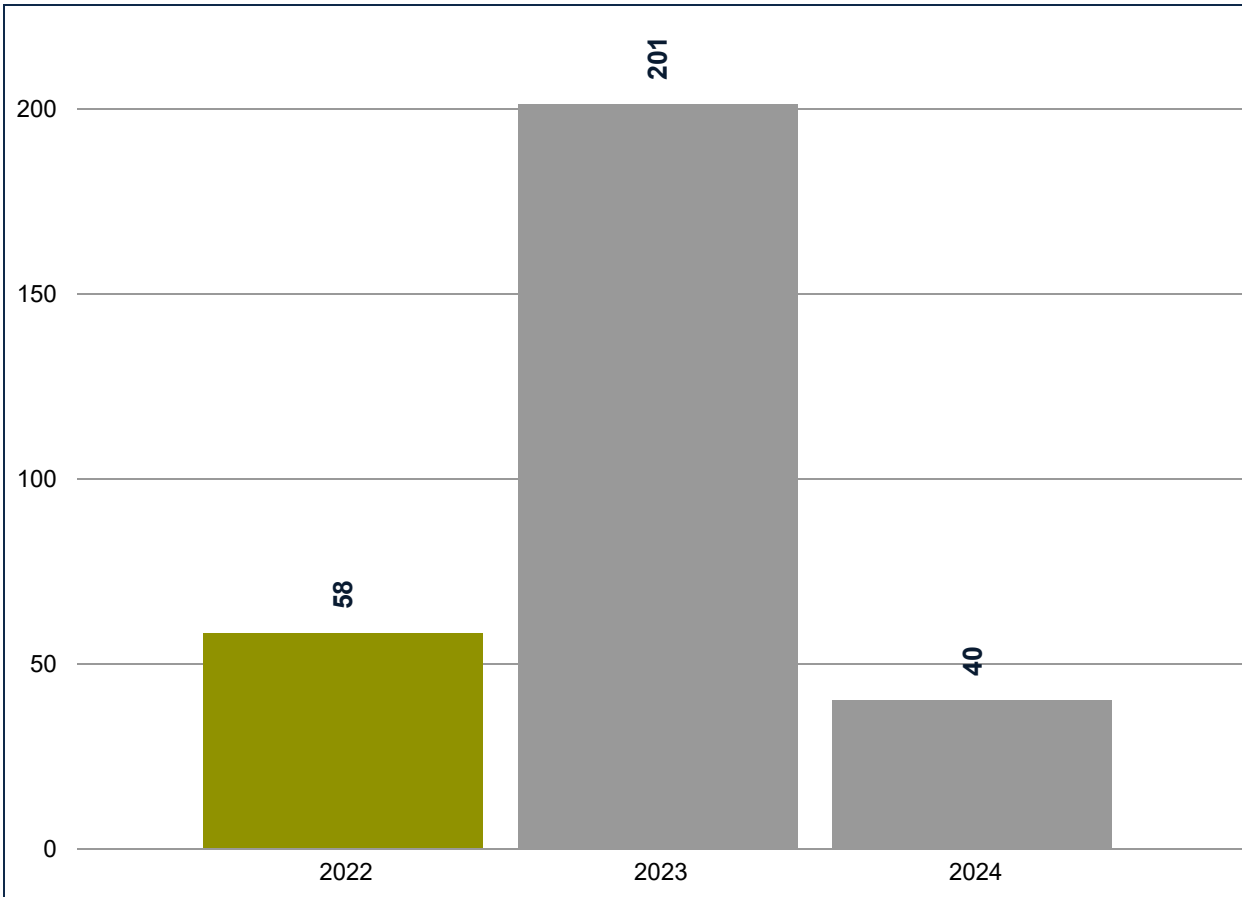
Vigencia ● No ● Si



Número de proyectos vigentes

| Año | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-------|---------|--------|------------|------------|-------|---------|--------|
| 2022 | | 4,0% | | 6,0% | 9,0% | 0,3% | 19,4% |
| 2023 | 1,3% | 4,7% | 0,3% | 8,0% | 51,8% | 1,0% | 67,2% |
| 2024 | | 0,7% | | 1,3% | 11,4% | | 13,4% |
| Total | 1,3% | 9,4% | 0,3% | 15,4% | 72,2% | 1,3% | 100,0% |

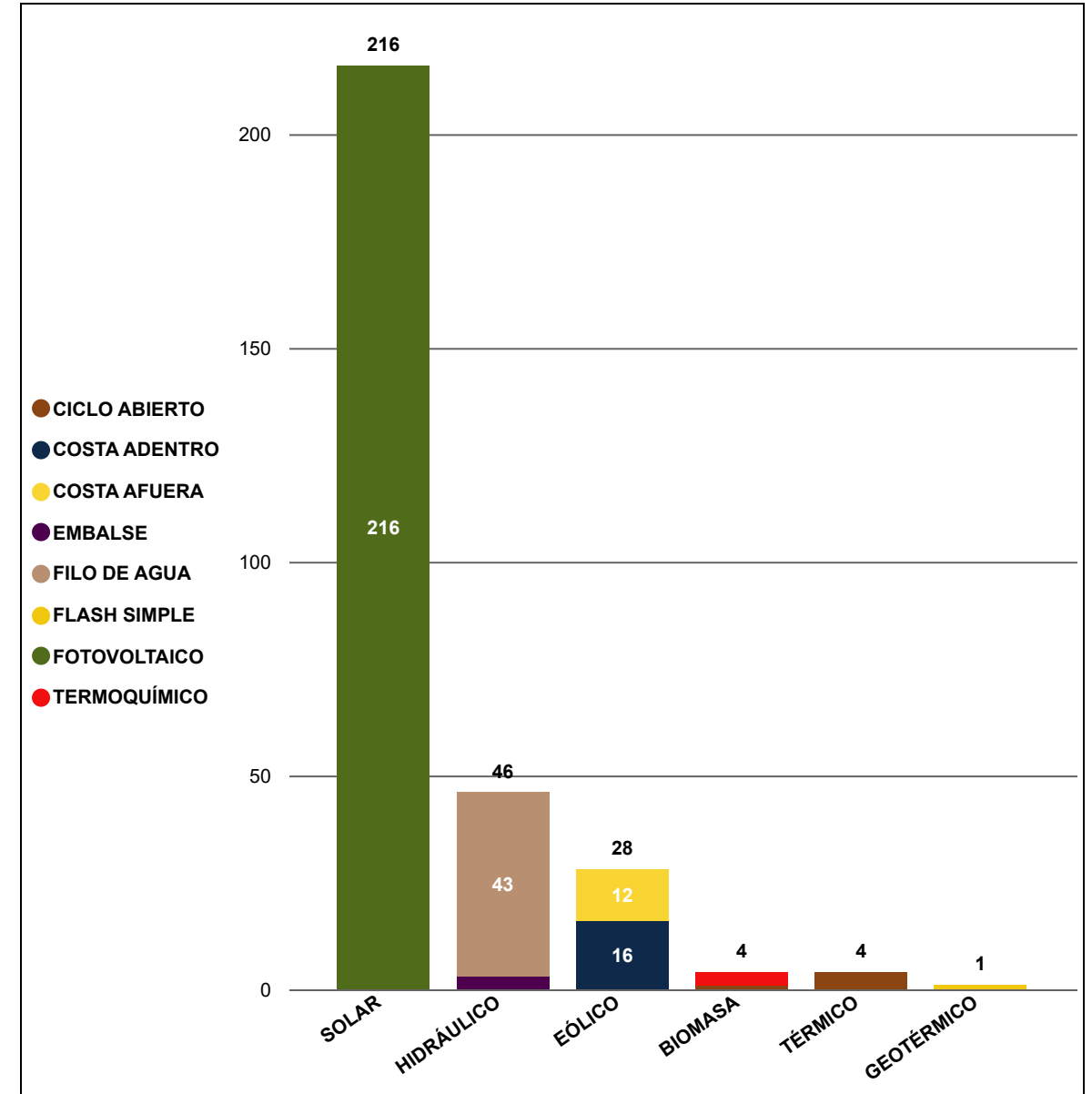
| Año | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-------|---------|--------|------------|------------|-------|---------|-------|
| 2022 | | 12 | | 18 | 27 | 1 | 58 |
| 2023 | 4 | 14 | 1 | 24 | 155 | 3 | 201 |
| 2024 | | 2 | | 4 | 34 | | 40 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |





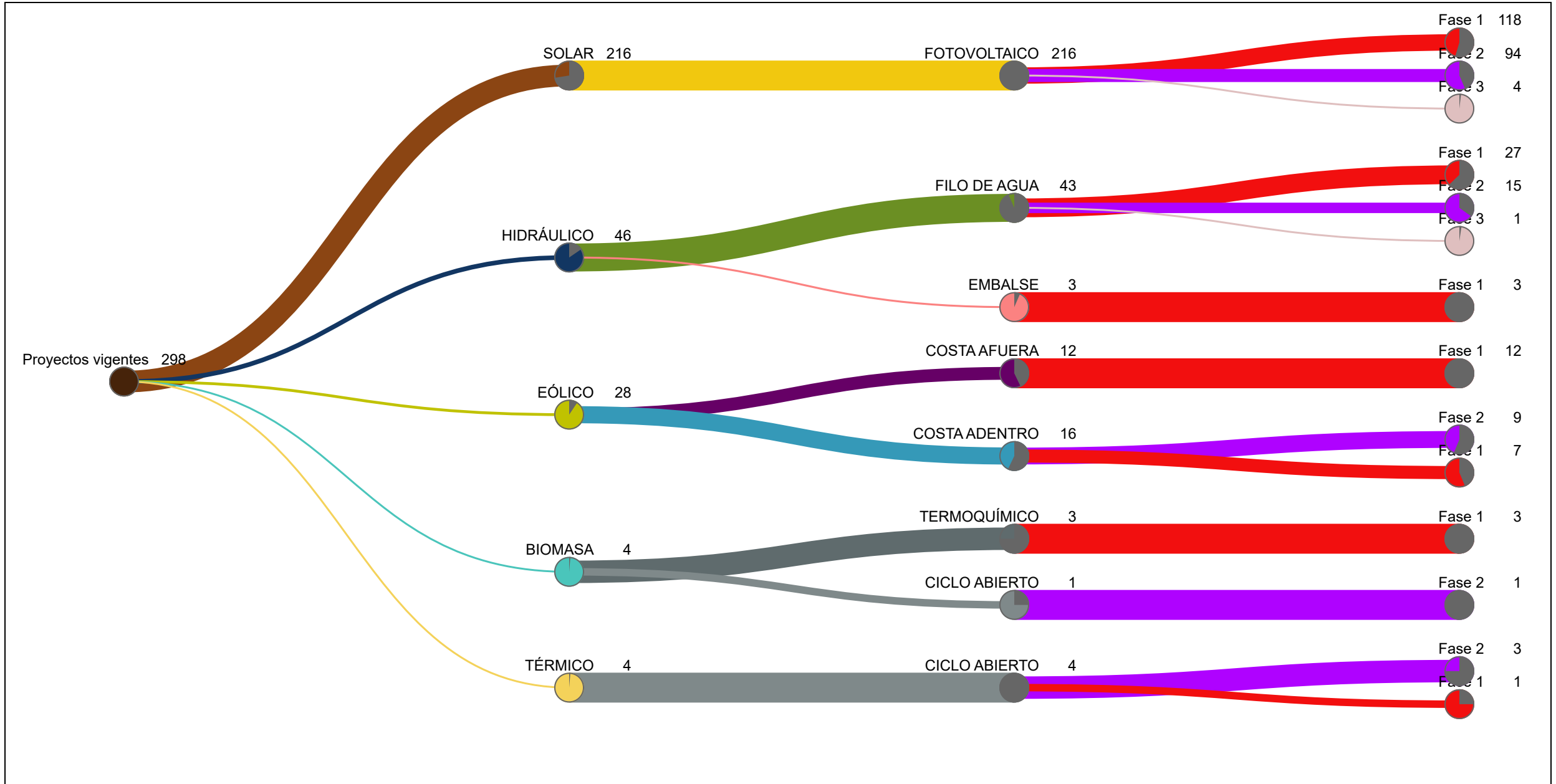
Número de proyectos vigentes

| Recurso | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------------------|----------|-----------|------------|------------|------------|----------|------------|
| SOL | | | | | 216 | | 216 |
| FOTOVOLTAICO | | | | | 216 | | 216 |
| AGUA | | | | 46 | | | 46 |
| FILO DE AGUA | | | | 43 | | | 43 |
| EMBALSE | | | | 3 | | | 3 |
| VIENTO | | 28 | | | | | 28 |
| COSTA ADENTRO | | 16 | | | | | 16 |
| COSTA AFUERA | | 12 | | | | | 12 |
| GAS NATURAL | | | | | | 4 | 4 |
| CICLO ABIERTO | | | | | | 4 | 4 |
| RESIDUOS SÓLIDOS URBANOS | 3 | | | | | | 3 |
| TERMOQUÍMICO | 3 | | | | | | 3 |
| CULTIVO ENERGÉTICO | 1 | | | | | | 1 |
| CICLO ABIERTO | 1 | | | | | | 1 |
| VAPOR | | | 1 | | | | 1 |
| FLASH SIMPLE | | | 1 | | | | 1 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |



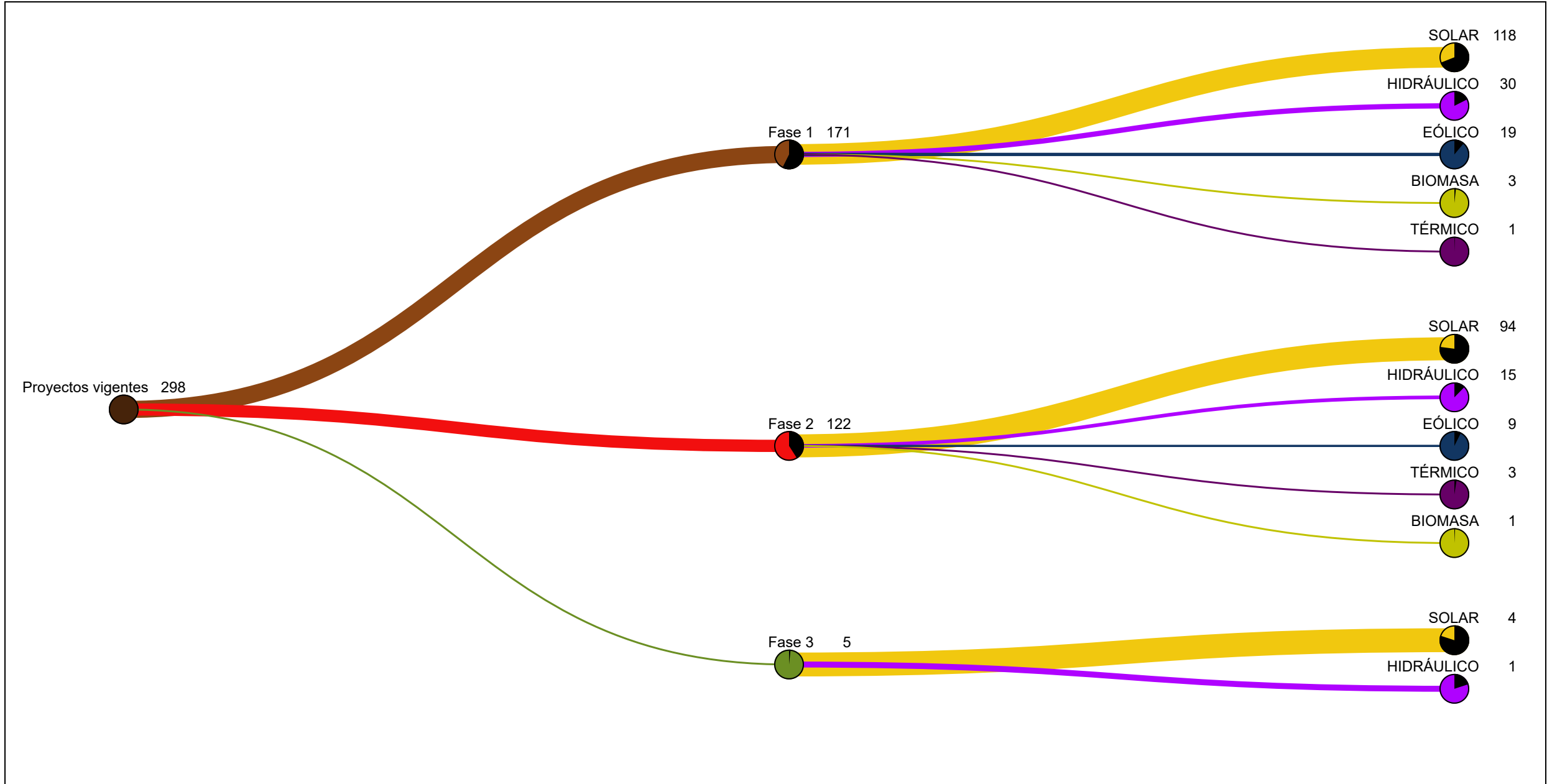


Número de proyectos vigentes



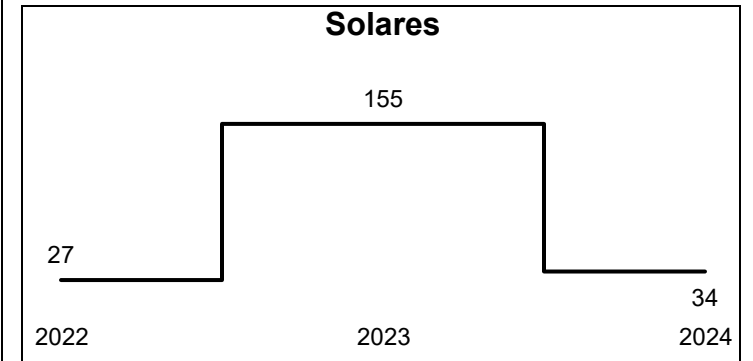
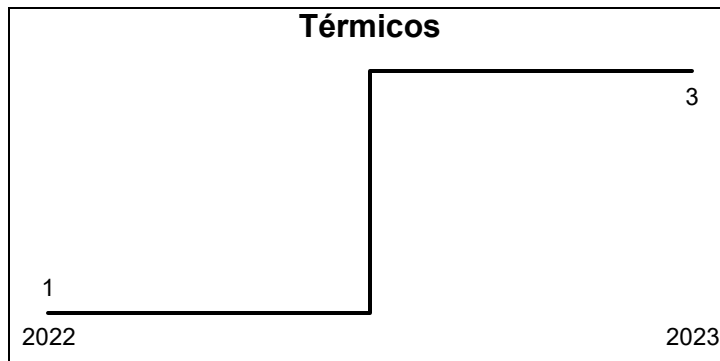
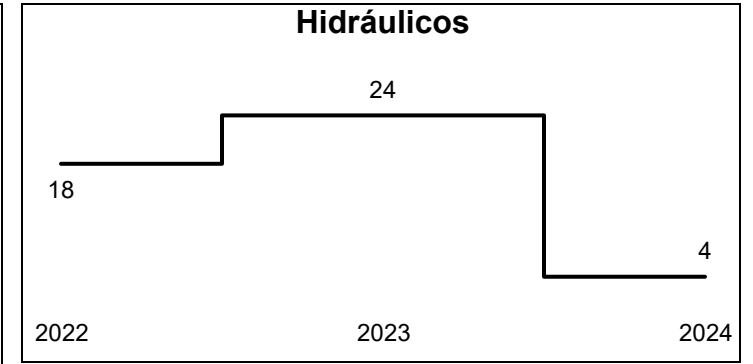
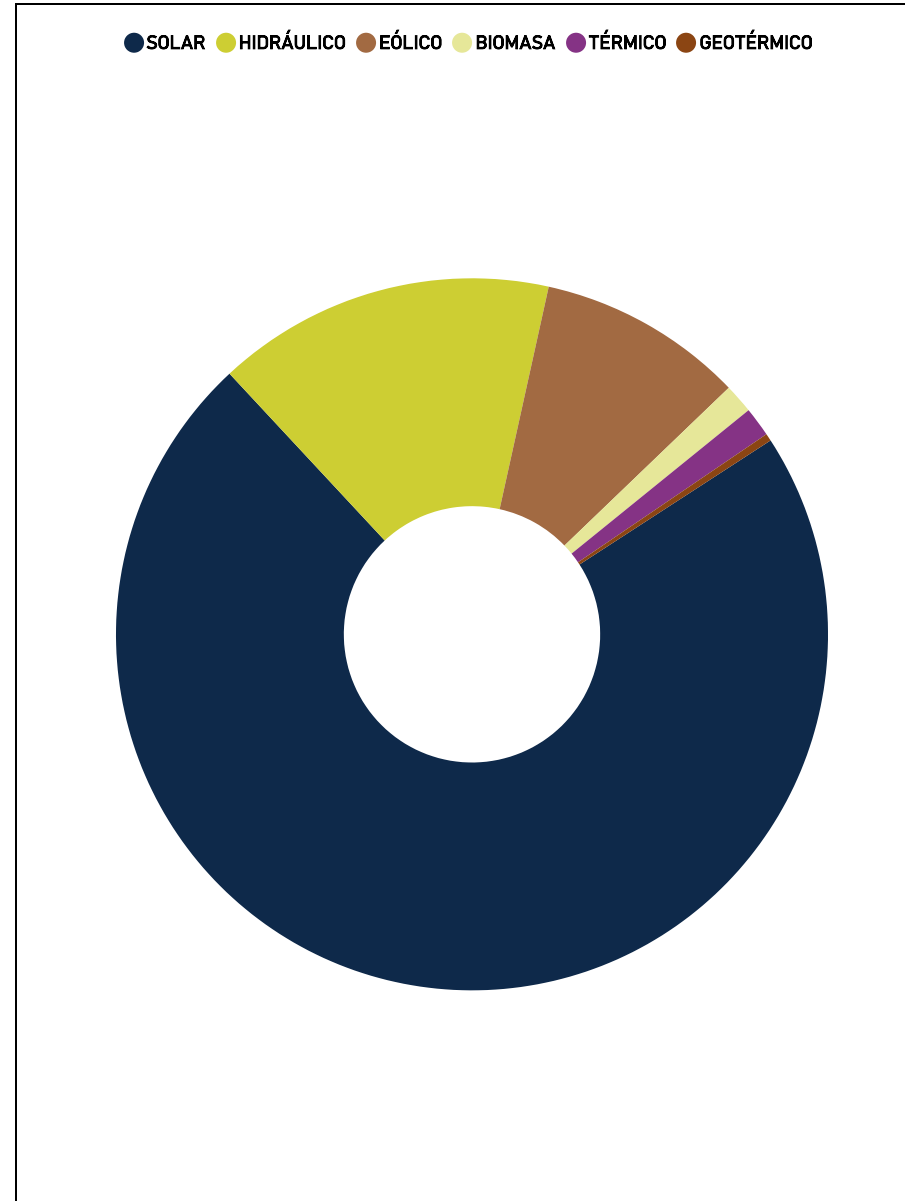
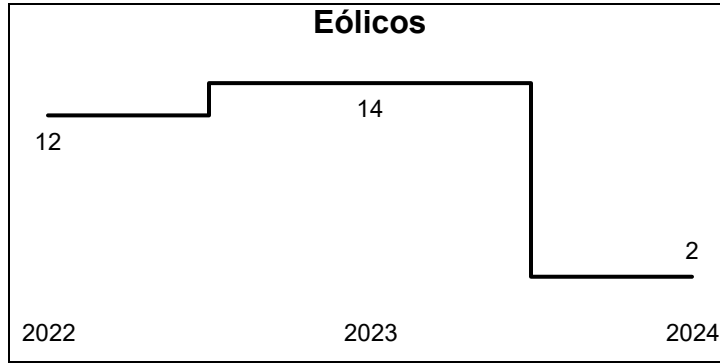


Número de proyectos vigentes



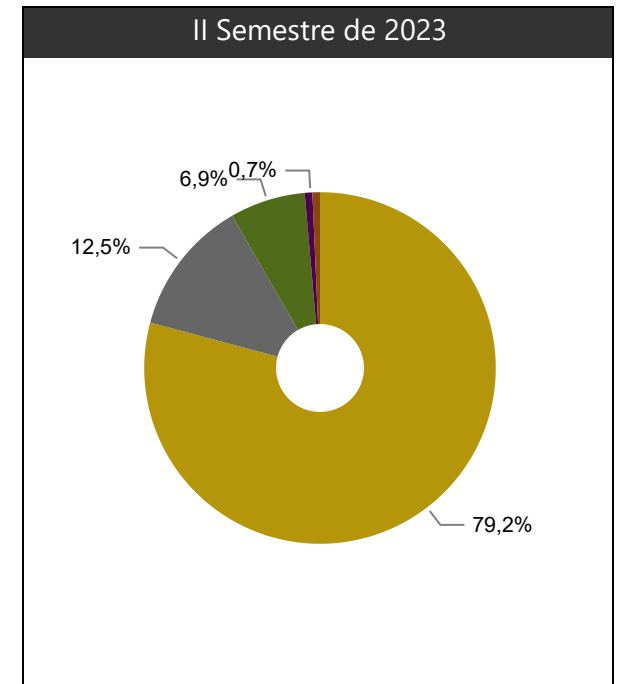
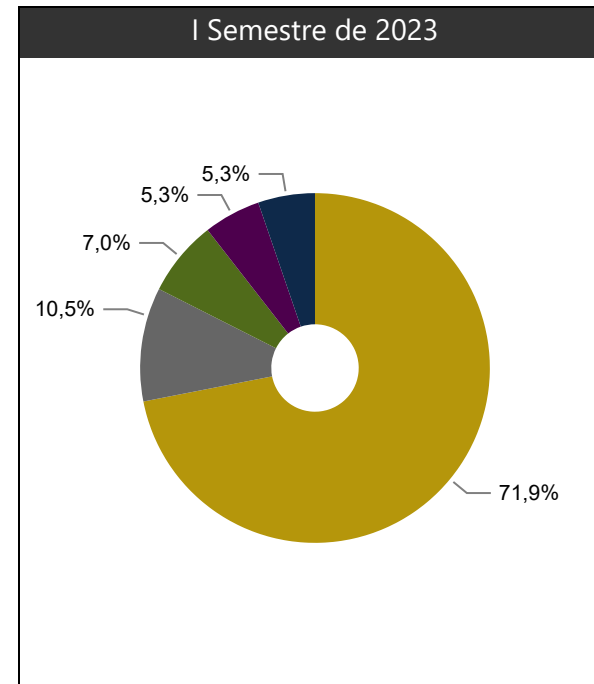
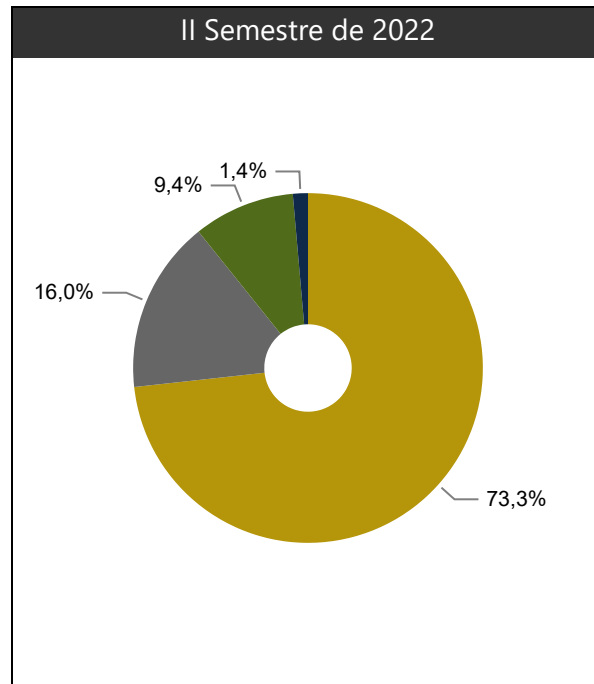
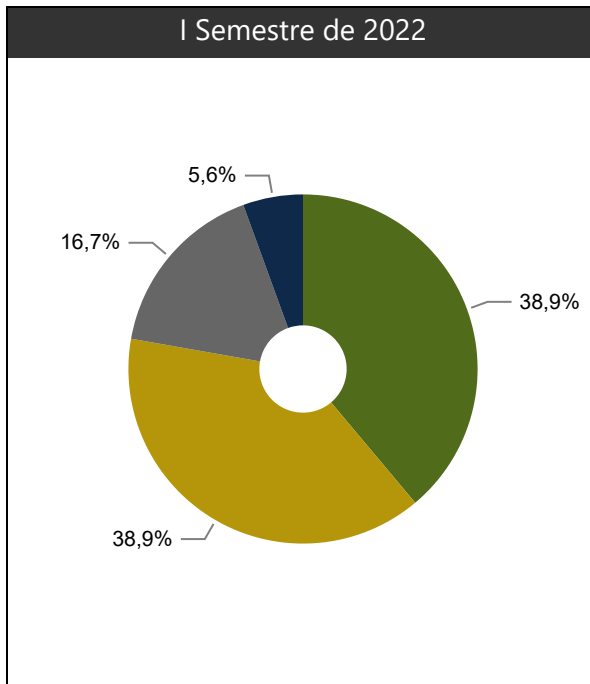
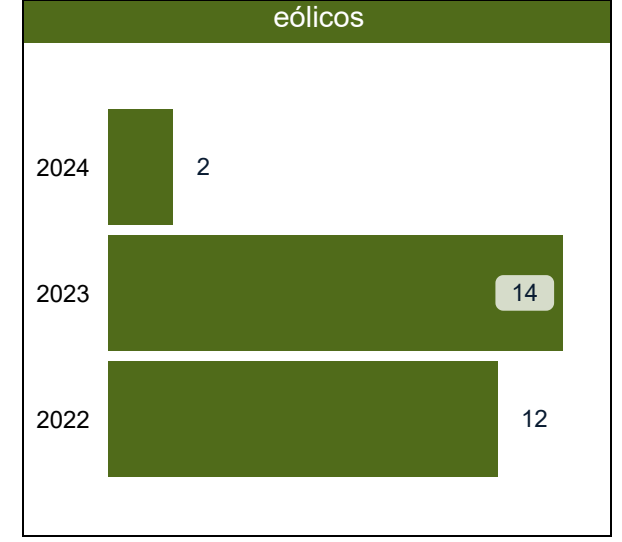
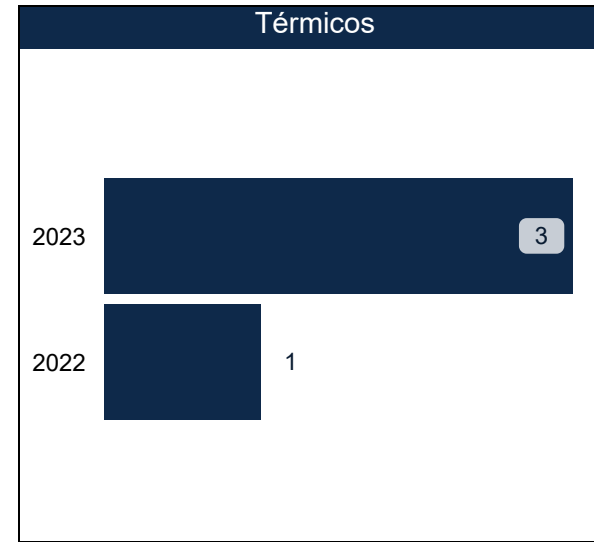
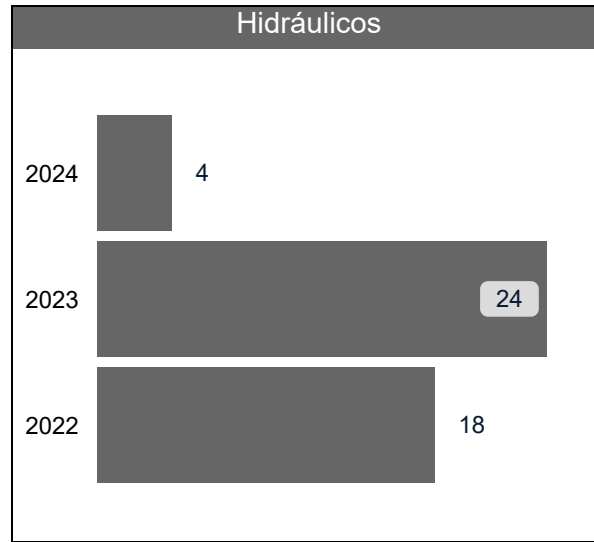
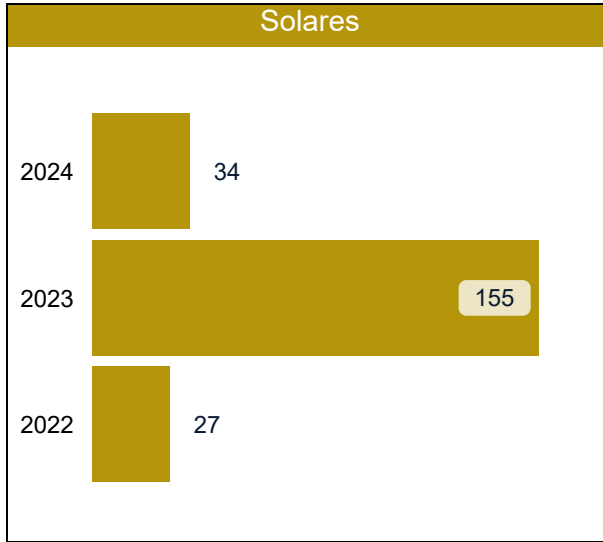


Evolución del número de proyectos vigentes



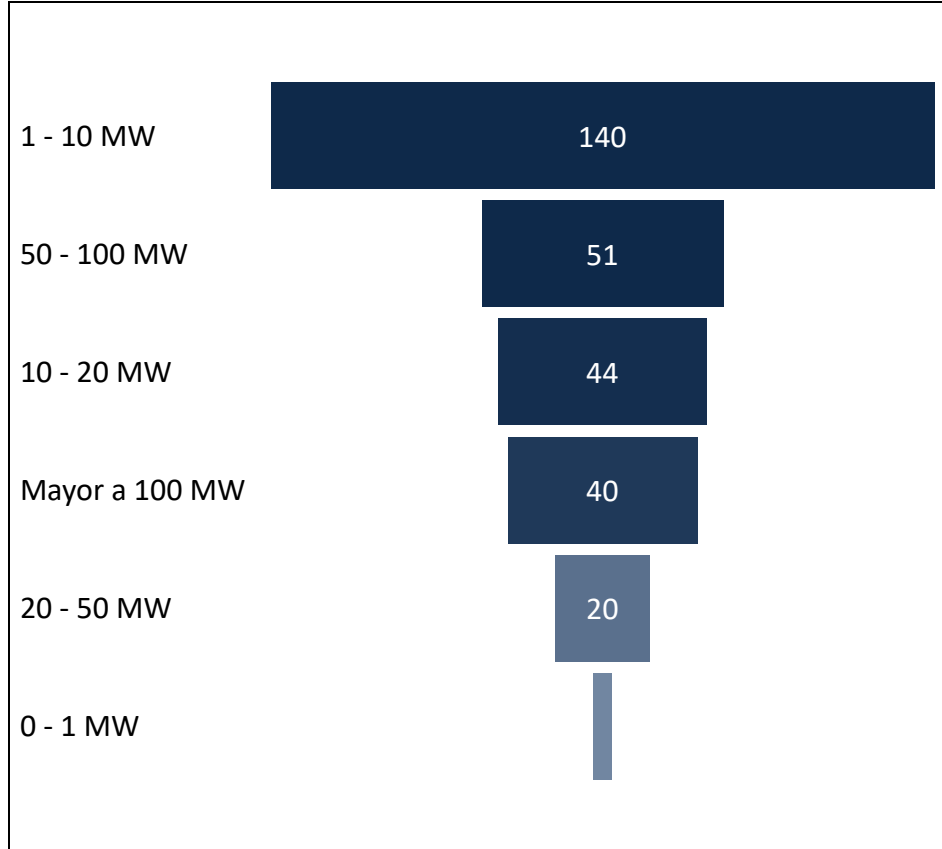


Número de proyectos vigentes





Número de proyectos vigentes por rango de potencia



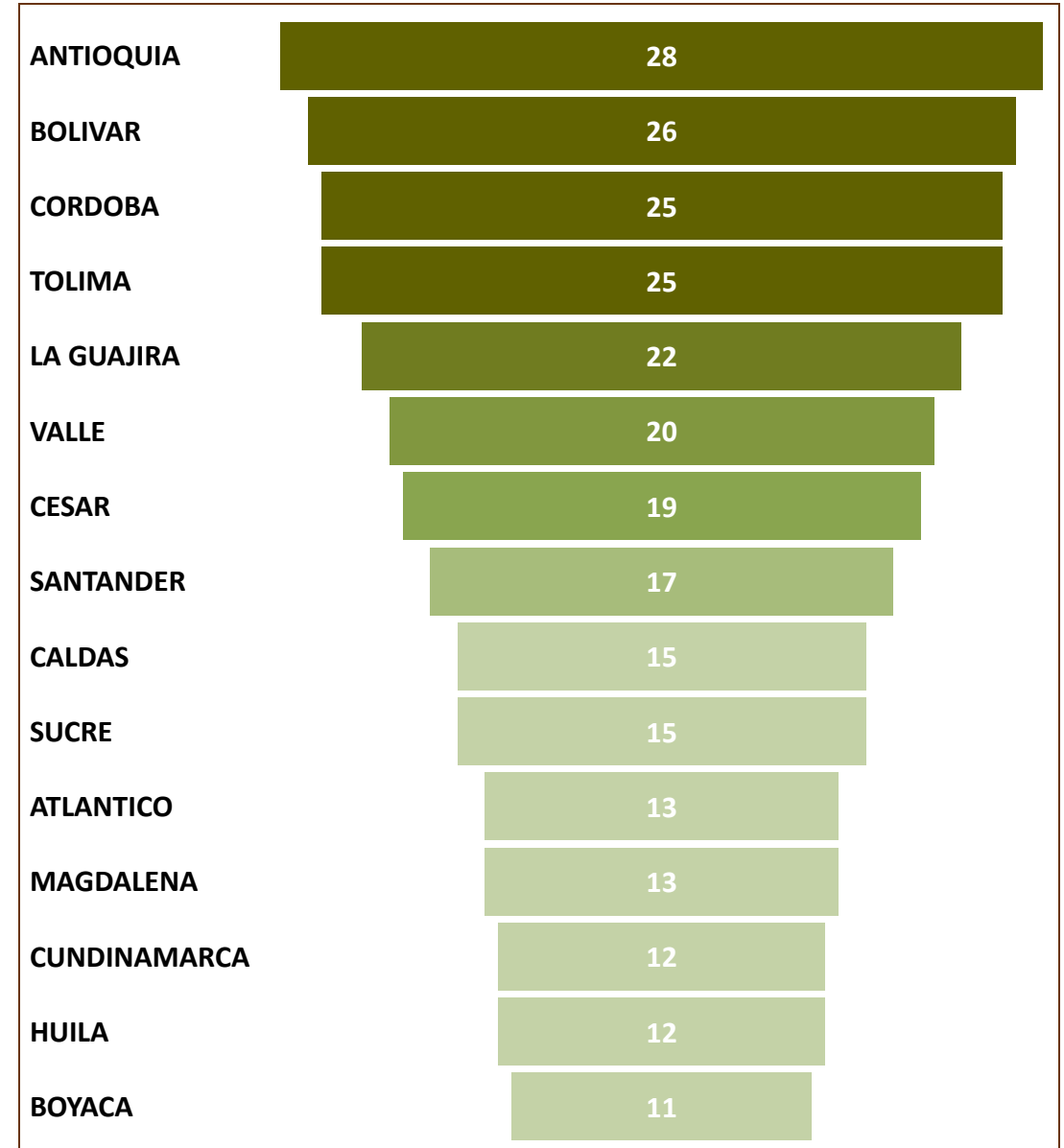
| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|----------|-----------|------------|------------|------------|----------|------------|
| 0 - 1 MW | | | | 1 | 3 | | 4 |
| 1 - 10 MW | 3 | 2 | 1 | 24 | 110 | | 140 |
| 10 - 20 MW | | | | 11 | 33 | | 44 |
| 20 - 50 MW | 1 | 4 | | 3 | 12 | | 20 |
| 50 - 100 MW | | 7 | | 5 | 36 | 3 | 51 |
| Mayor a 100 MW | | 15 | | 2 | 22 | 1 | 40 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |

| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|-------------|-------------|-------------|--------------|--------------|-------------|---------------|
| 0 - 1 MW | | | | 0,3% | 1,0% | | 1,3% |
| 1 - 10 MW | 1,0% | 0,7% | 0,3% | 8,0% | 36,8% | | 46,8% |
| 10 - 20 MW | | | | 3,7% | 11,0% | | 14,7% |
| 20 - 50 MW | 0,3% | 1,3% | | 1,0% | 4,0% | | 6,7% |
| 50 - 100 MW | | 2,3% | | 1,7% | 12,0% | 1,0% | 17,1% |
| Mayor a 100 MW | | 5,0% | | 0,7% | 7,4% | 0,3% | 13,4% |
| Total | 1,3% | 9,4% | 0,3% | 15,4% | 72,2% | 1,3% | 100,0% |



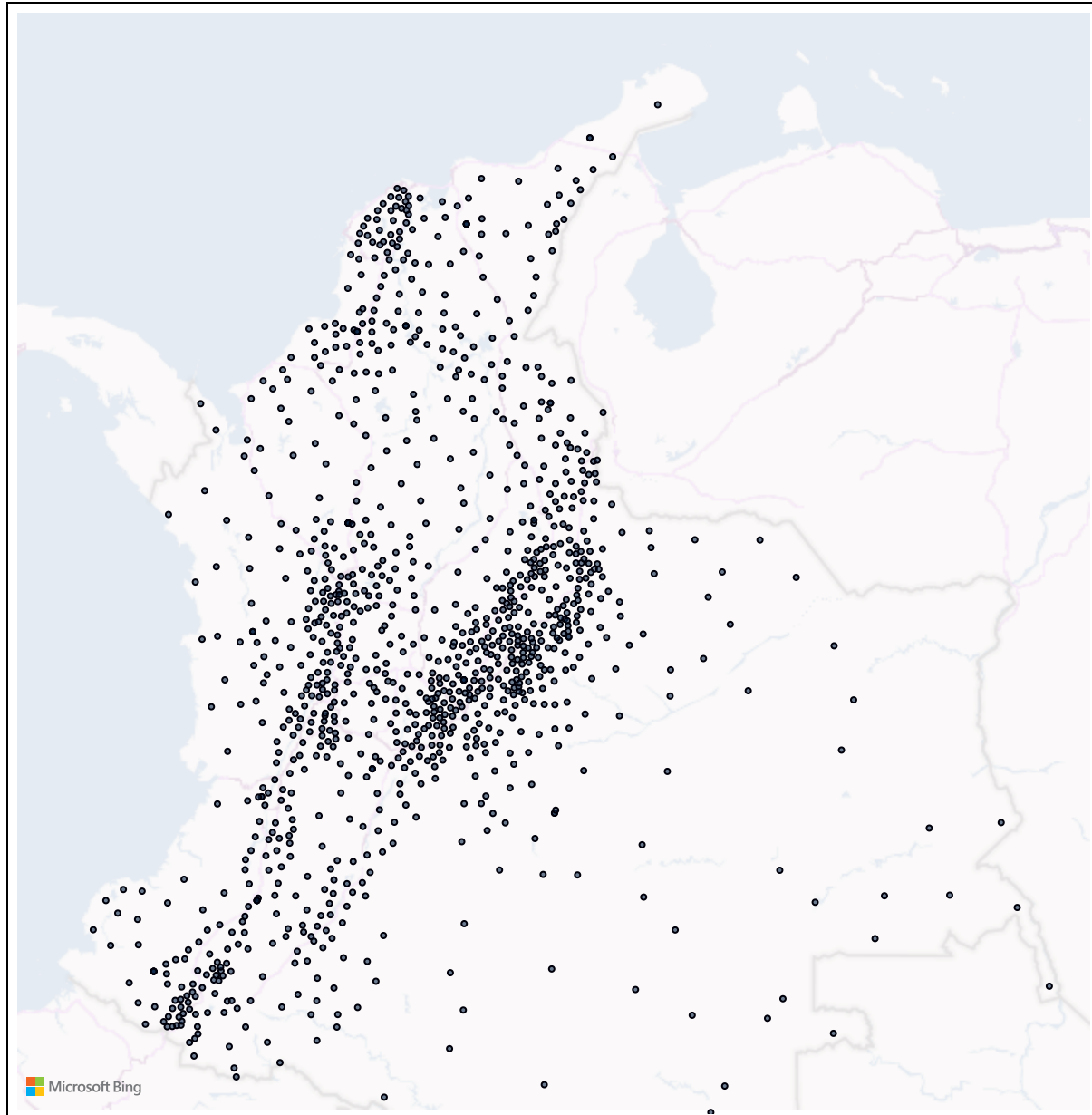
Número de proyectos vigentes por departamento

| Departamento | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-----------------|---------|--------|------------|------------|-------|---------|-------|
| ANTIOQUIA | 1 | | | 18 | 9 | | 28 |
| ARAUCA | | | | | 3 | | 3 |
| ATLANTICO | 1 | 3 | | | 9 | | 13 |
| BOLIVAR | | 2 | | | 24 | | 26 |
| BOYACA | | | 1 | | 10 | | 11 |
| CALDAS | | | | 9 | 6 | | 15 |
| CASANARE | 1 | | | | 4 | | 5 |
| CAUCA | | | | 6 | | | 6 |
| CESAR | | 1 | | | 18 | | 19 |
| CORDOBA | | 1 | | | 24 | | 25 |
| CUNDINAMARCA | | | | 1 | 11 | | 12 |
| HUILA | | | | | 12 | | 12 |
| LA GUAJIRA | | 16 | | | 6 | | 22 |
| MAGDALENA | | 5 | | | 5 | 3 | 13 |
| META | | | | | 5 | | 5 |
| 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 | 22 | | 25 |
| VALLE | 1 | | | 2 | 16 | 1 | 20 |
| VAUPES | | | | | 1 | | 1 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |





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



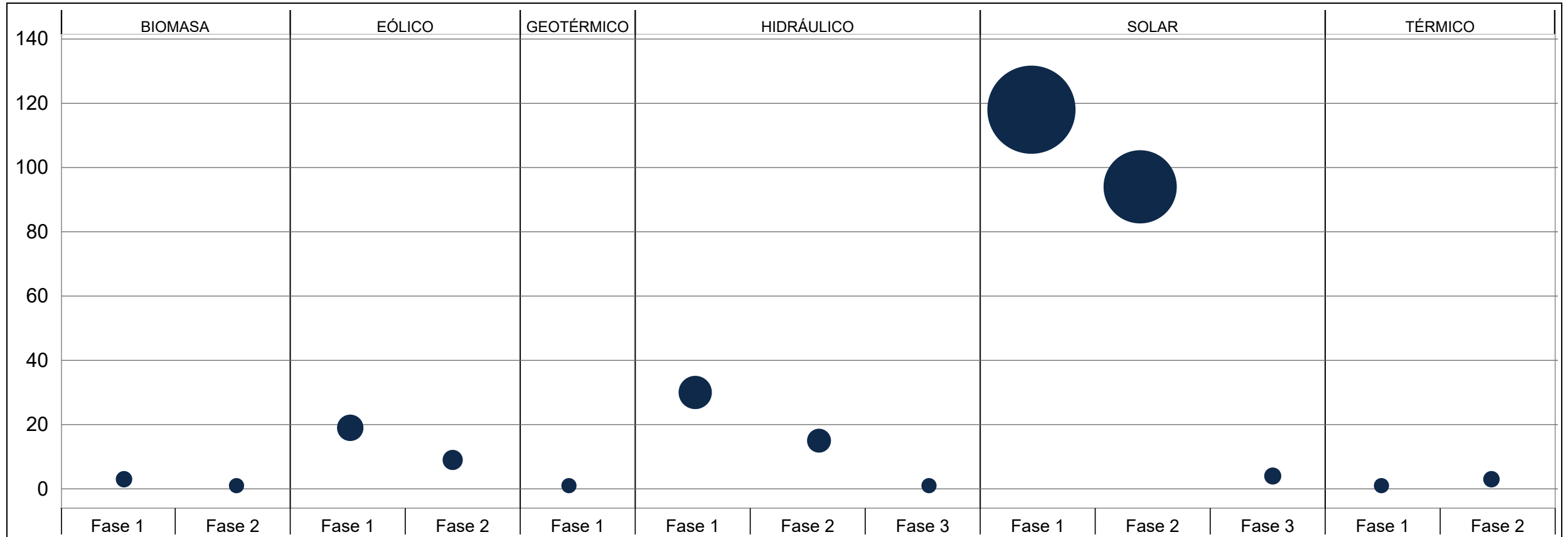
| Municipio | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------------|---------|--------|------------|-------|---------|-------|
| URIBIA | | 12 | | 1 | | 13 |
| IBAGUE | | | | 7 | | 7 |
| EL PASO | | | | 6 | | 6 |
| NATAGAIMA | | | | 6 | | 6 |
| NEIVA | | | | 6 | | 6 |
| BARRANCABERMEJA | | | | 5 | | 5 |
| MARULANDA | | | 5 | | | 5 |
| SAHAGUN | | | | 5 | | 5 |
| SANTA MARTA | | 2 | | | 3 | 5 |
| CHINU | | | | 4 | | 4 |
| EL COPEY | | | | 4 | | 4 |
| PALMIRA | | | | 4 | | 4 |
| PALMITO | | | | 4 | | 4 |
| PUENTE NACIONAL | | | 4 | | | 4 |
| SABANALARGA | | | | 4 | | 4 |
| VALLEDUPAR | | 1 | | 3 | | 4 |
| 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 |
| 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 | 19 | 1 | 30 | 118 | 1 | 172 |
| Fase 2 | 1 | 9 | | 15 | 94 | 3 | 122 |
| Fase 3 | | | | 1 | 4 | | 5 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |

| Año | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|----------|-----------|------------|------------|------------|----------|------------|
| 2023 | 4 | 14 | 1 | 24 | 155 | 3 | 201 |
| 2022 | | 12 | | 18 | 27 | 1 | 58 |
| 2024 | | 2 | | 4 | 34 | | 40 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |

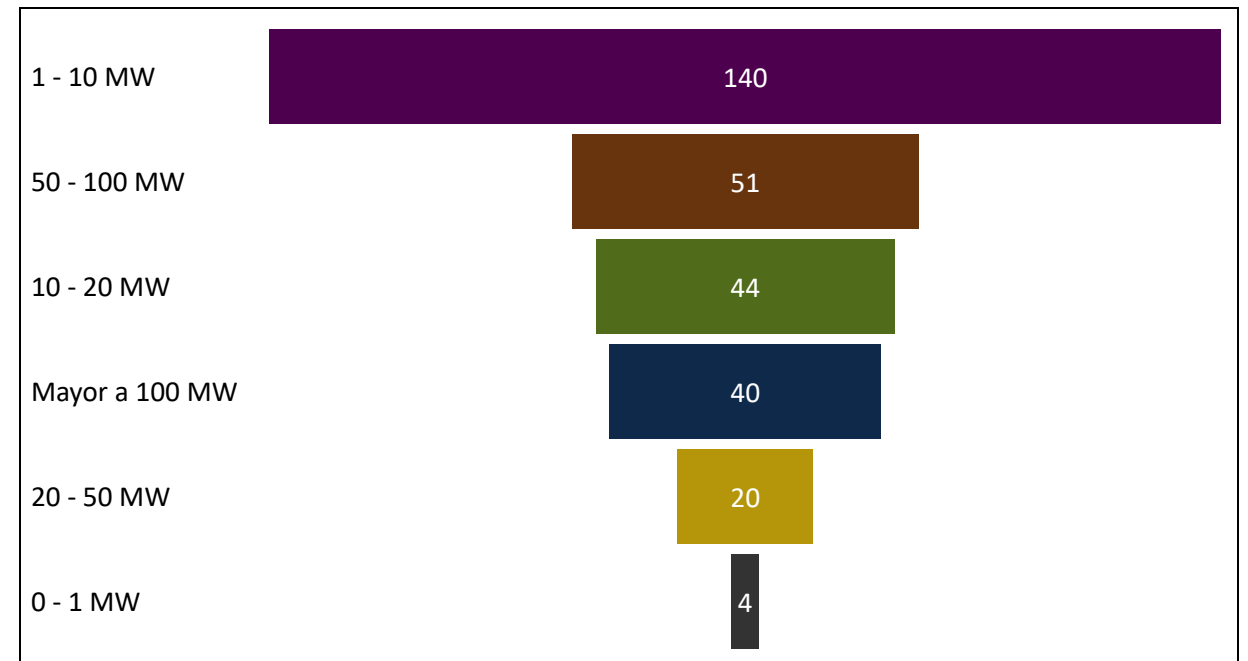
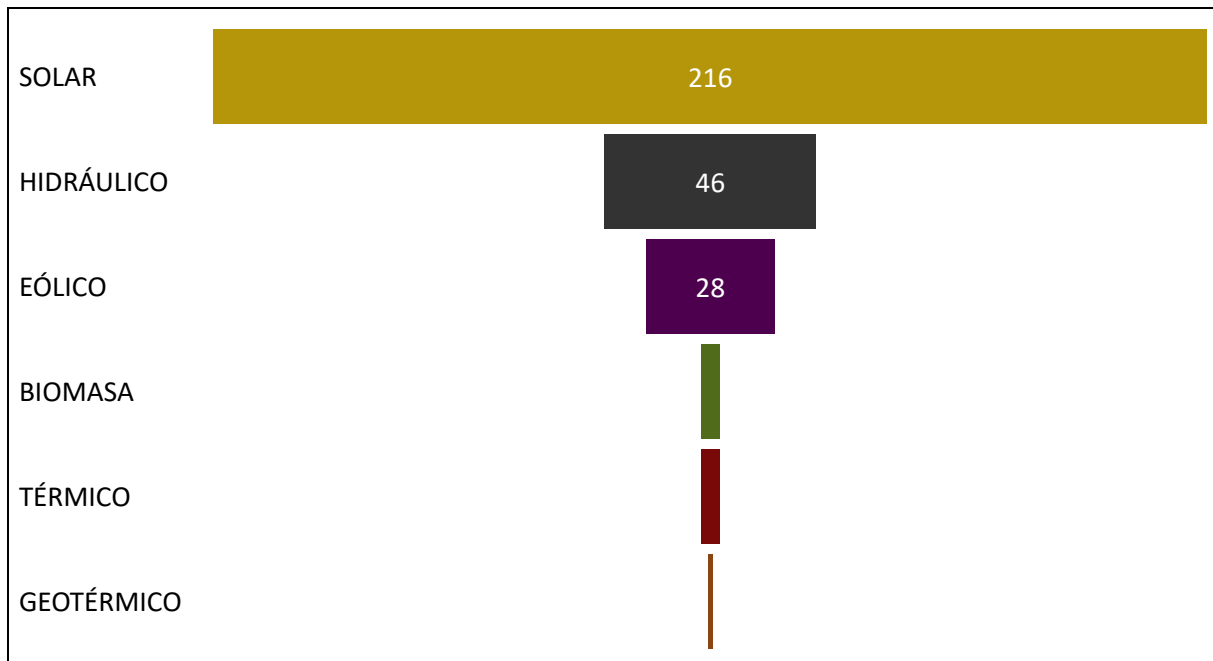




Número de proyectos vigentes por tipo y por rango de potencia

| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|----------|-----------|------------|------------|------------|----------|------------|
| 1 - 10 MW | 3 | 2 | 1 | 24 | 110 | | 140 |
| 50 - 100 MW | | 7 | | 5 | 36 | 3 | 51 |
| 10 - 20 MW | | | | 11 | 33 | | 44 |
| Mayor a 100 MW | | 15 | | 2 | 22 | 1 | 40 |
| 20 - 50 MW | 1 | 4 | | 3 | 12 | | 20 |
| 0 - 1 MW | | | | 1 | 3 | | 4 |
| Total | 4 | 28 | 1 | 46 | 216 | 4 | 299 |

| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|--------------|--------------|--------------|---------------|---------------|--------------|----------------|
| Mayor a 100 MW | | 5,02% | | 0,67% | 7,36% | 0,33% | 13,38% |
| 50 - 100 MW | | 2,34% | | 1,67% | 12,04% | 1,00% | 17,06% |
| 20 - 50 MW | 0,33% | 1,34% | | 1,00% | 4,01% | | 6,69% |
| 10 - 20 MW | | | | 3,68% | 11,04% | | 14,72% |
| 1 - 10 MW | 1,00% | 0,67% | 0,33% | 8,03% | 36,79% | | 46,82% |
| 0 - 1 MW | | | | 0,33% | 1,00% | | 1,34% |
| Total | 1,34% | 9,36% | 0,33% | 15,38% | 72,24% | 1,34% | 100,00% |

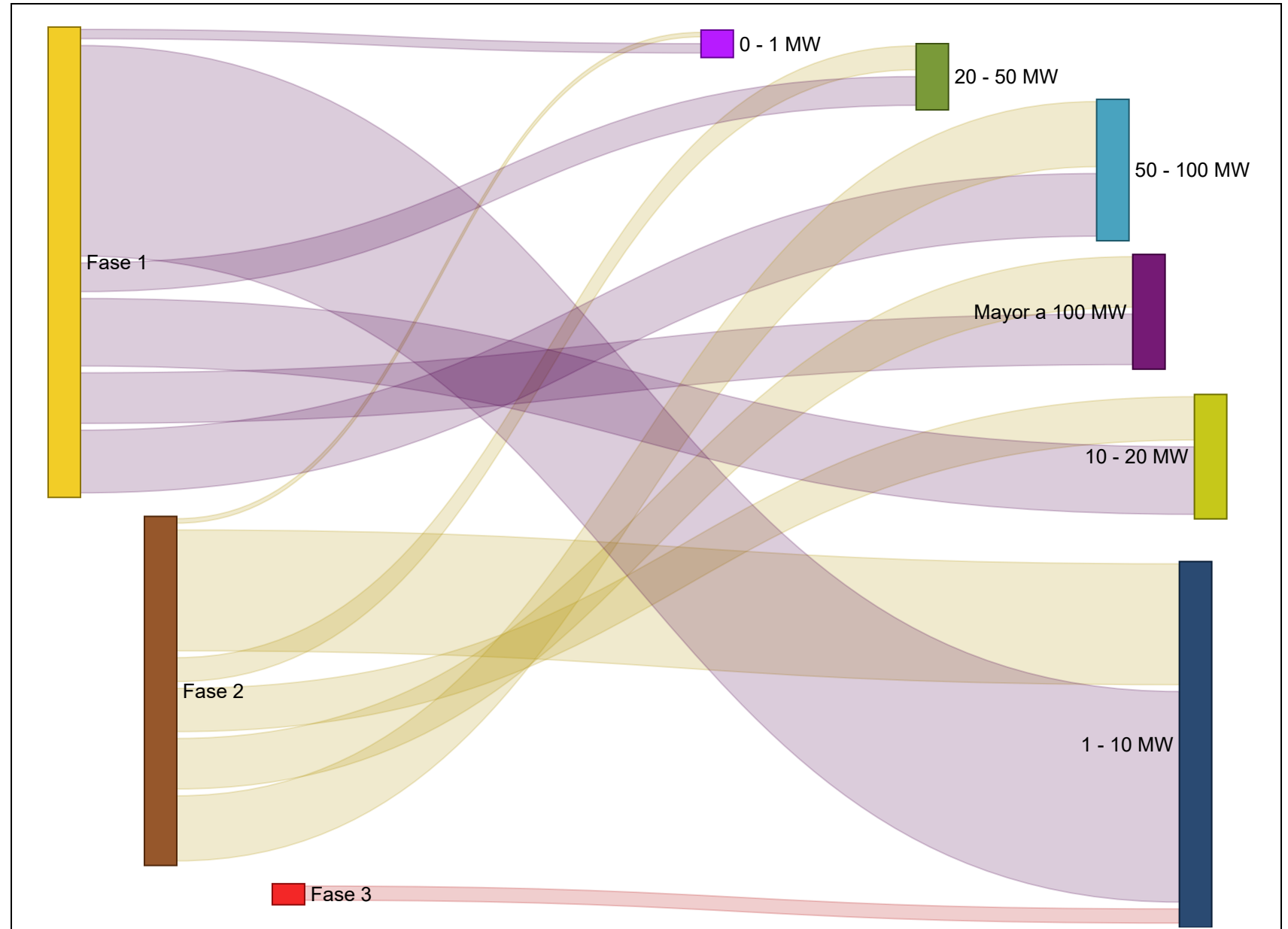




Número de proyectos vigentes según su estado y su rango de potencia

| Rango | Fase 1 | Fase 2 | Fase 3 | Total |
|----------------|------------|------------|----------|------------|
| 0 - 1 MW | 3 | 1 | | 4 |
| 1 - 10 MW | 86 | 49 | 5 | 140 |
| 10 - 20 MW | 27 | 17 | | 44 |
| 20 - 50 MW | 11 | 9 | | 20 |
| 50 - 100 MW | 25 | 26 | | 51 |
| Mayor a 100 MW | 20 | 20 | | 40 |
| Total | 172 | 122 | 5 | 299 |

| Rango | Fase 1 | Fase 2 | Fase 3 | Total |
|----------------|---------------|---------------|--------------|----------------|
| 0 - 1 MW | 1,00% | 0,33% | | 1,34% |
| 1 - 10 MW | 28,76% | 16,39% | 1,67% | 46,82% |
| 10 - 20 MW | 9,03% | 5,69% | | 14,72% |
| 20 - 50 MW | 3,68% | 3,01% | | 6,69% |
| 50 - 100 MW | 8,36% | 8,70% | | 17,06% |
| Mayor a 100 MW | 6,69% | 6,69% | | 13,38% |
| Total | 57,53% | 40,80% | 1,67% | 100,00% |





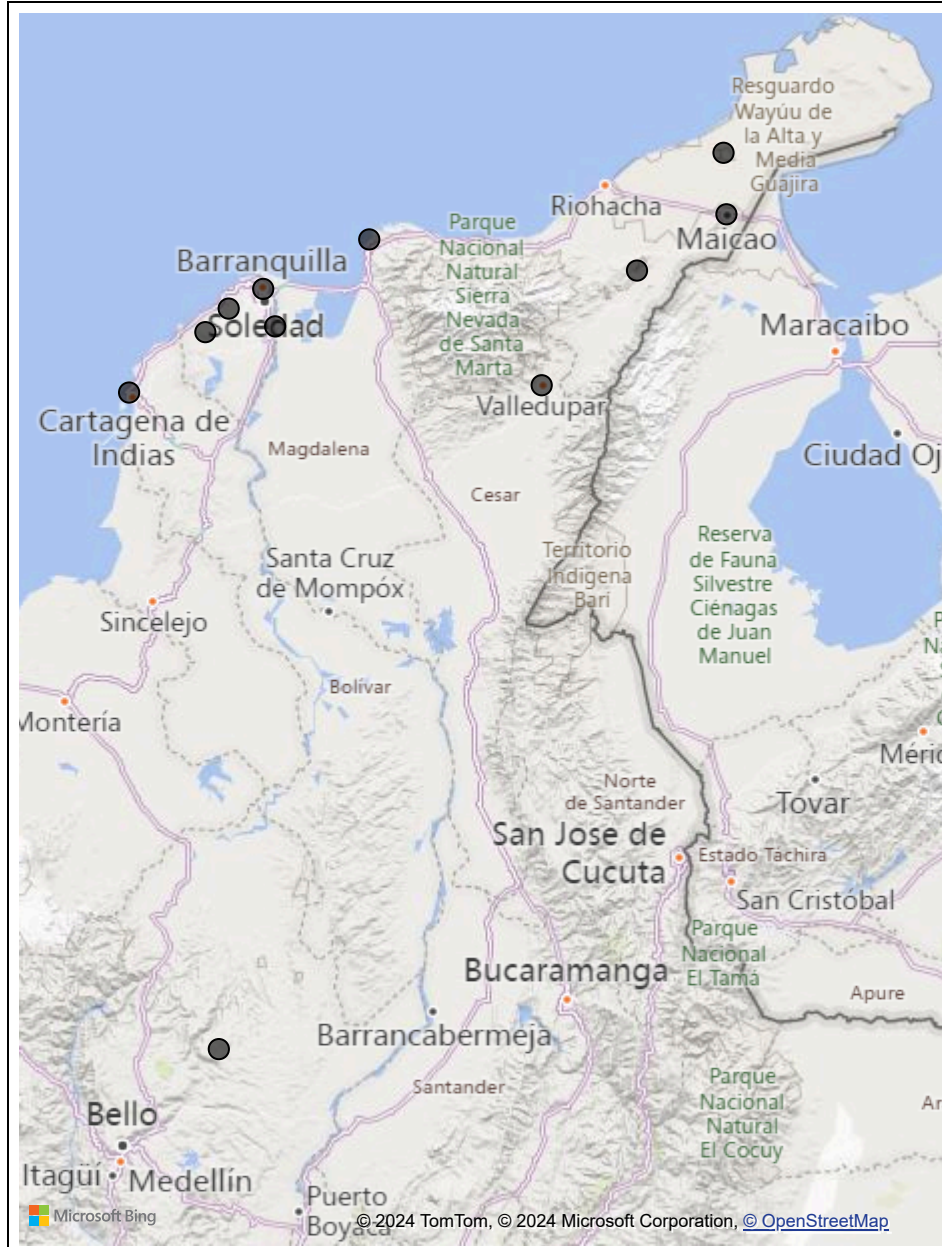
Ubicación de los principales proyectos solares vigentes (Pot > 100 MW)



| 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 |
| GUADUAS, CUNDINAMARCA | SOLAR PUERTA DE ORO | 300 | Fase 2 | 31/12/2025 |
| 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 |
| SABANALARGA, ATLANTICO | ATLÁNTICO PHOTOVOLTAIC | 200 | Fase 2 | 31/12/2025 |
| SAHAGUN, CORDOBA | SOLAR SAHAGÚN | 200 | Fase 2 | 30/12/2024 |
| SAHAGUN, CORDOBA | PARQUE SOLAR EL ESPINO | 200 | Fase 2 | 31/12/2025 |
| SAHAGUN, CORDOBA | PV SAHAGÚN 400 MW | 400 | Fase 2 | 31/12/2026 |
| SAN CARLOS, ANTIOQUIA | TAMARINO | 200 | Fase 1 | 31/12/2026 |
| VILLAVICENCIO, META | BOSQUES SOLARES DE LOS LLANOS 8 | 170 | Fase 2 | 30/12/2026 |



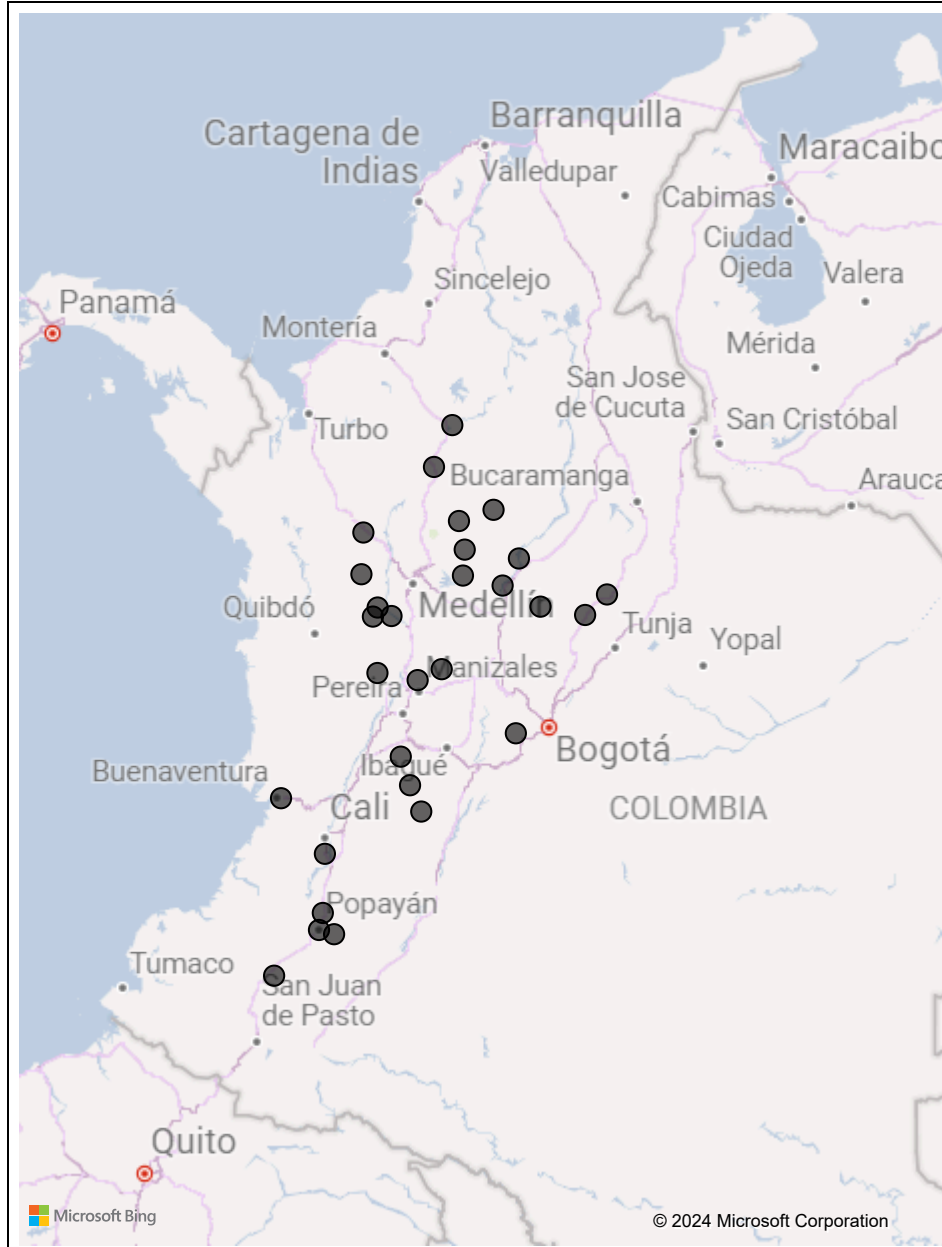
Ubicación de los principales proyectos eólicos vigentes



| 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 JK2 (ANTES PARQUE EÓLICO APOTOLORRU) | 75 | Fase 2 | 22/10/2025 |
| URIBIA, LA GUAJIRA | PARQUE EÓLICO JK4 (antes PARQUE EÓLICO CARRIZAL) | 195 | Fase 2 | 22/10/2025 |
| 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 |
| SANTA CATALINA, BOLIVAR | PARQUE EÓLICO OFFSHORE VIENTOS ALISIOS | 200 | Fase 1 | 08/12/2025 |
| BUENAVISTA, CORDOBA | PARQUE EÓLICO REFORMA MUNDIAL | 97 | Fase 1 | 30/03/2026 |
| 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 |



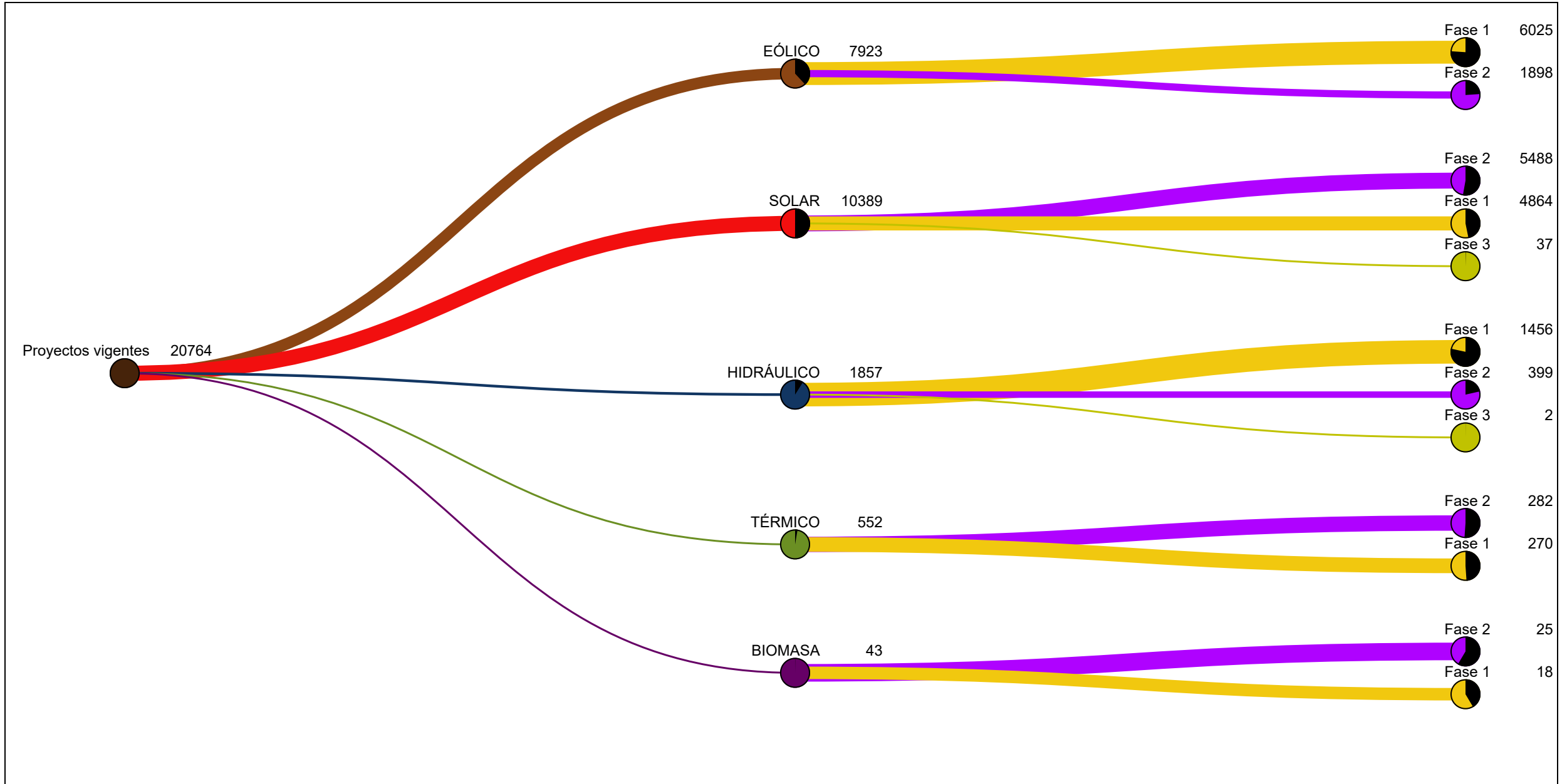
Ubicación de los principales proyectos térmicos vigentes



| Municipio-Departamento | Nombre Proyecto | Capacidad MW | Estado | Entrada Operacion |
|-------------------------------|------------------------|--------------|--------|-------------------|
| SANTA MARTA, MAGDALENA | TERMOGAIRA S.A. E.S.P. | 94 | Fase 2 | 10/01/2025 |
| SANTA MARTA, MAGDALENA | TERMOCOSTA S.A. E.S.P. | 94 | Fase 2 | 10/01/2025 |
| SANTA MARTA, MAGDALENA | TERMOBONDA S.A. E.S.P. | 94 | Fase 2 | 10/01/2025 |
| BUENAVENTURA, VALLE DEL CAUCA | TERMOANDES | 270 | Fase 1 | 02/03/2026 |

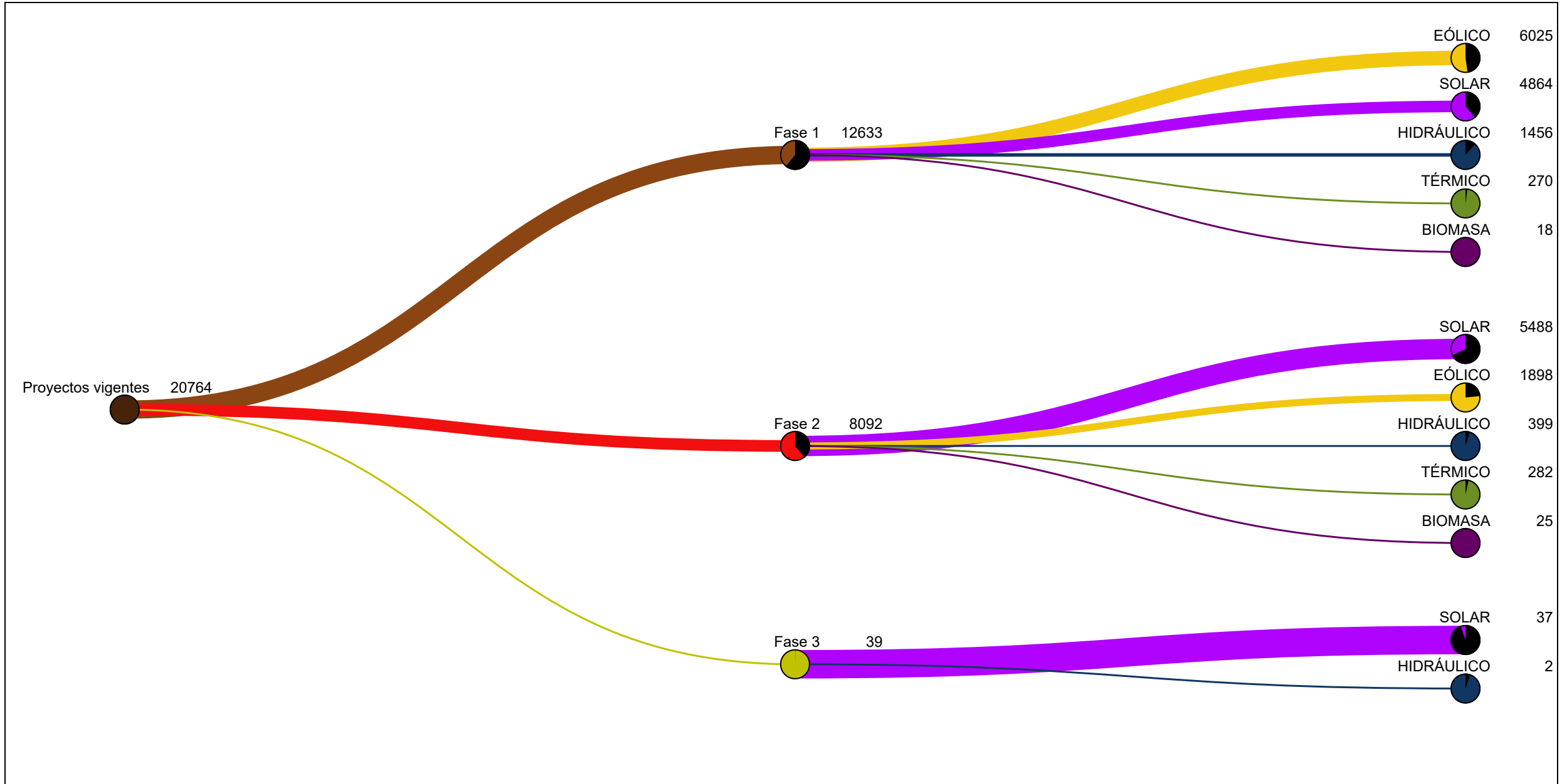


Capacidad de proyectos vigentes por tipo (MW)





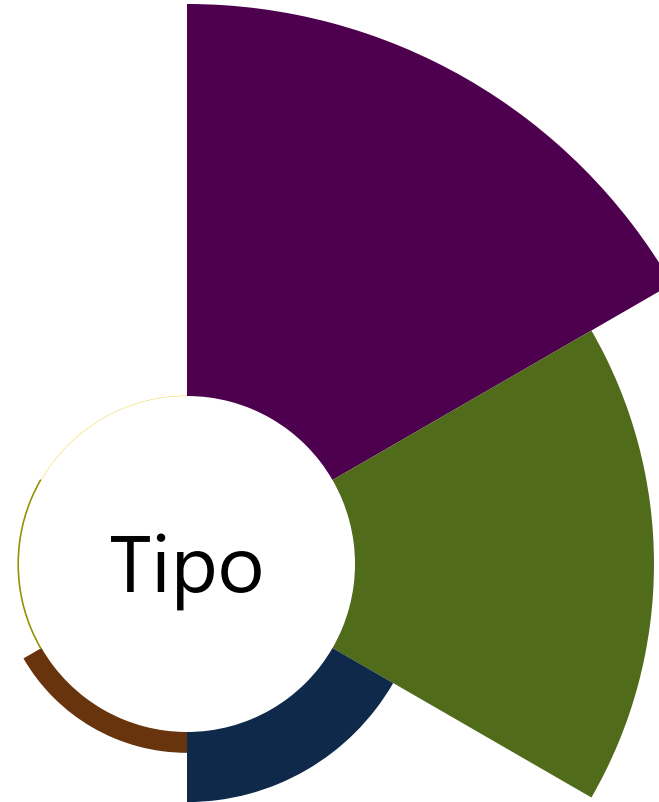
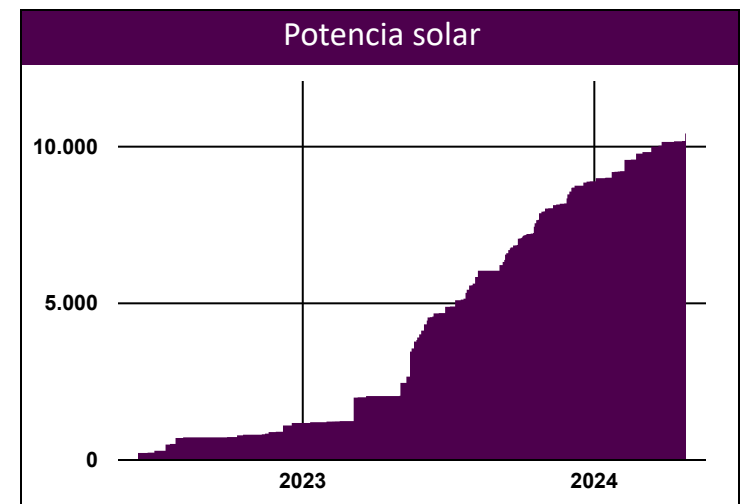
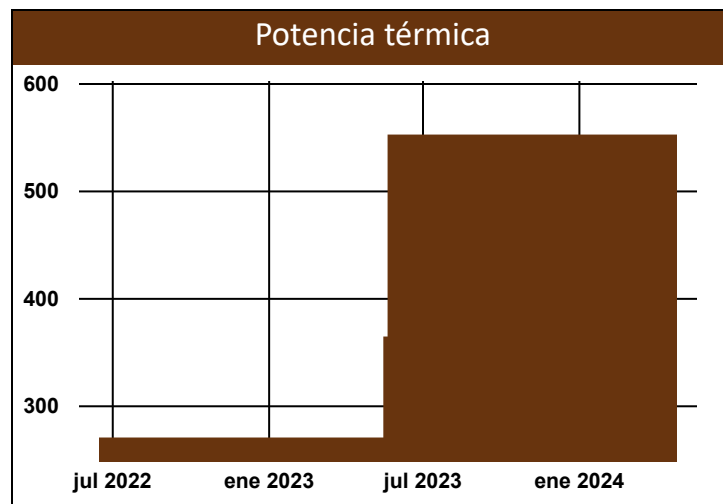
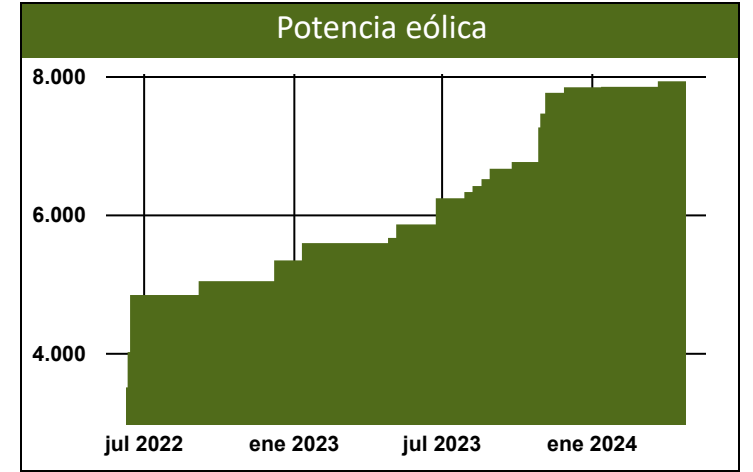
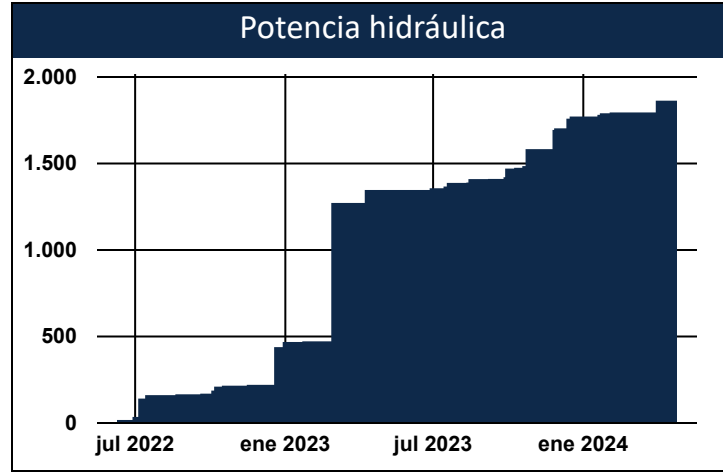
Capacidad de proyectos vigentes por estado (MW)





Capacidad de proyectos vigentes por tipo (MW)

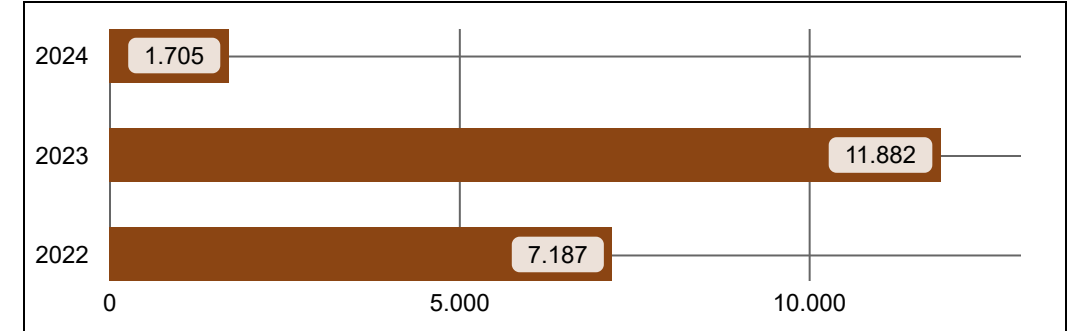
● SOLAR ● EÓLICO ● HIDRÁULICO ● TÉRMICO ● BIOMASA ● GEOTÉRMICO



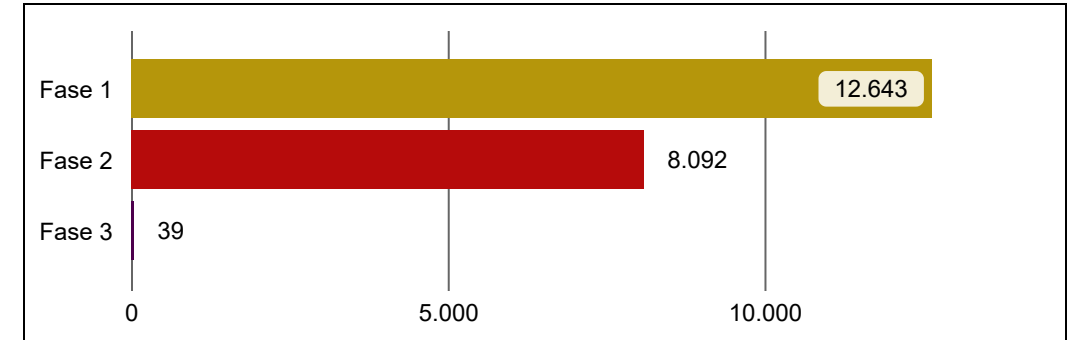


Capacidad de proyectos vigentes por tipo (MW)

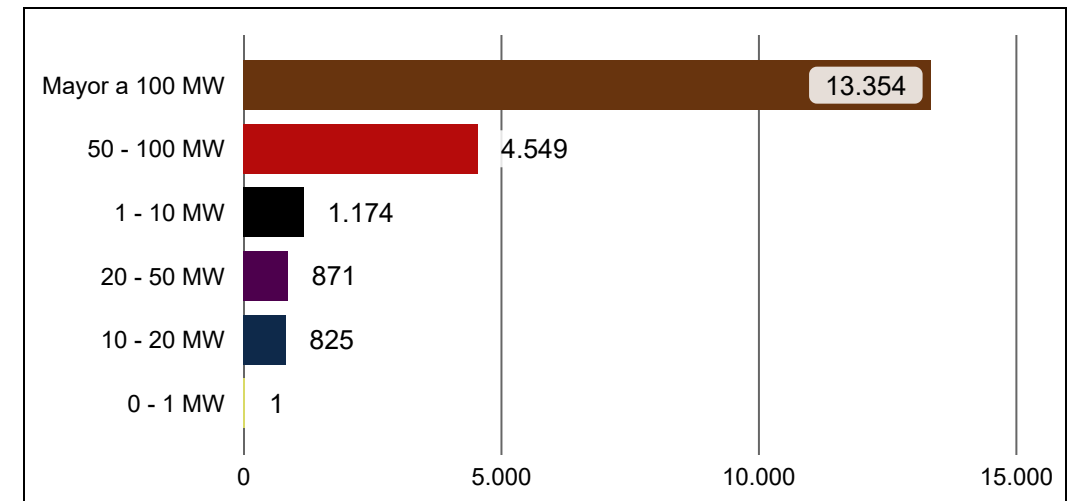
| Año | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|-----------|--------------|------------|--------------|---------------|------------|---------------|
| 2022 | | 5.335 | | 433 | 1.149 | 270 | 7.187 |
| 2023 | 43 | 2.502 | 10 | 1.333 | 7.713 | 282 | 11.882 |
| 2024 | | 87 | | 92 | 1.527 | | 1.705 |
| Total | 43 | 7.923 | 10 | 1.857 | 10.389 | 552 | 20.774 |



| Estado | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|-----------|--------------|------------|--------------|---------------|------------|---------------|
| Fase 3 | | | | 2 | 37 | | 39 |
| Fase 2 | 25 | 1.898 | | 399 | 5.488 | 282 | 8.092 |
| Fase 1 | 18 | 6.025 | 10 | 1.456 | 4.864 | 270 | 12.643 |
| Total | 43 | 7.923 | 10 | 1.857 | 10.389 | 552 | 20.774 |



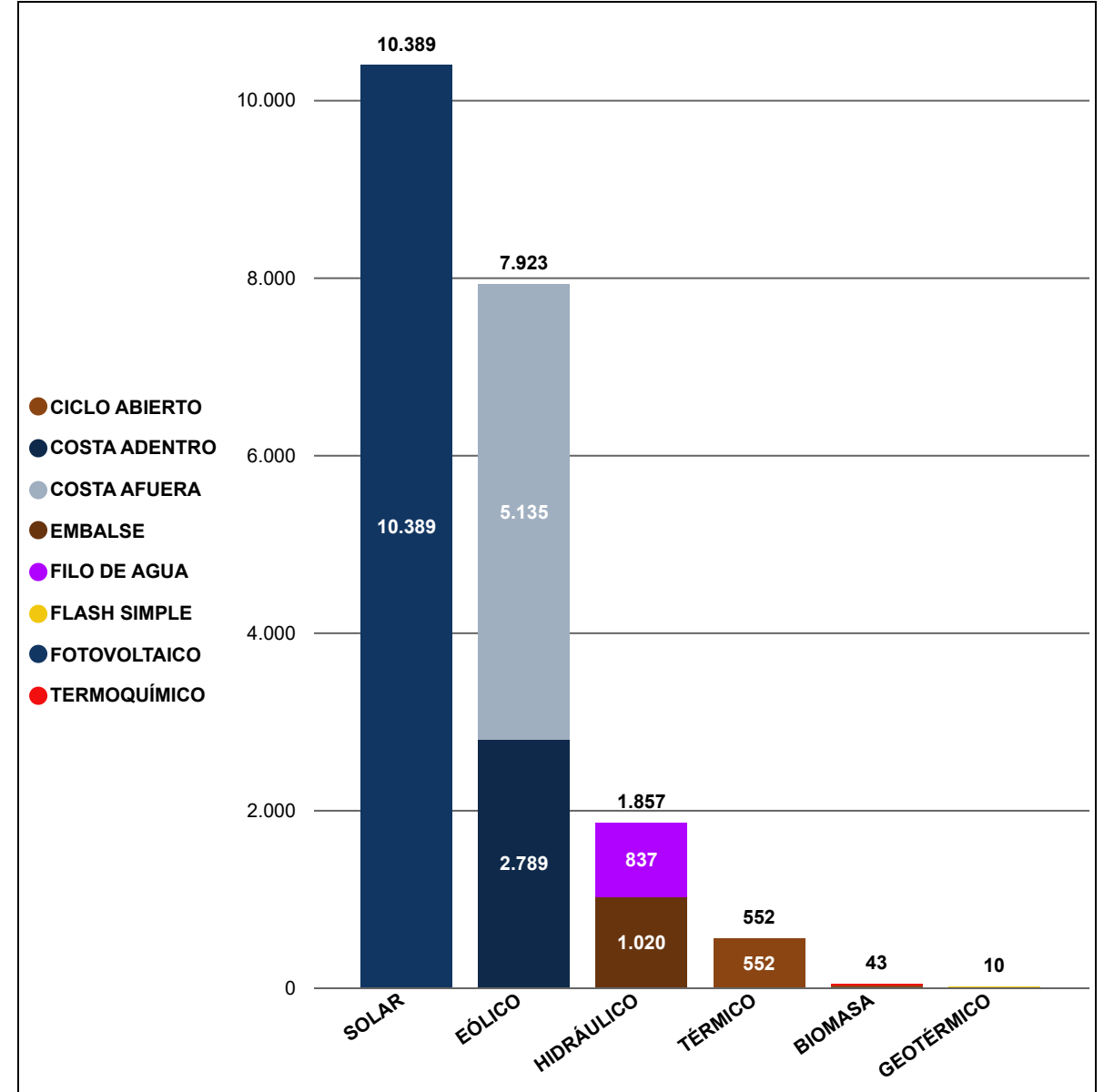
| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|-----------|--------------|------------|--------------|---------------|------------|---------------|
| 0 - 1 MW | | | | 1 | 0 | | 1 |
| 1 - 10 MW | 18 | 13 | 10 | 157 | 976 | | 1.174 |
| 10 - 20 MW | | | | 186 | 639 | | 825 |
| 20 - 50 MW | 25 | 200 | | 116 | 530 | | 871 |
| 50 - 100 MW | | 602 | | 397 | 3.268 | 282 | 4.549 |
| Mayor a 100 MW | | 7.108 | | 1.000 | 4.976 | 270 | 13.354 |
| Total | 43 | 7.923 | 10 | 1.857 | 10.389 | 552 | 20.774 |





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 | | | | | | 552 | 552 |
| CICLO ABIERTO | | | | | | 552 | 552 |
| RESIDUOS SÓLIDOS URBANOS | 18 | | | | | | 18 |
| TERMOQUÍMICO | 18 | | | | | | 18 |
| SOL | | | | | 10.389 | | 10.389 |
| FOTOVOLTAICO | | | | | 10.389 | | 10.389 |
| VAPOR | | | 10 | | | | 10 |
| FLASH SIMPLE | | | 10 | | | | 10 |
| VIENTO | | 7.923 | | | | | 7.923 |
| COSTA ADENTRO | | 2.789 | | | | | 2.789 |
| COSTA AFUERA | | 5.135 | | | | | 5.135 |
| Total | 43 | 7.923 | 10 | 1.857 | 10.389 | 552 | 20.774 |





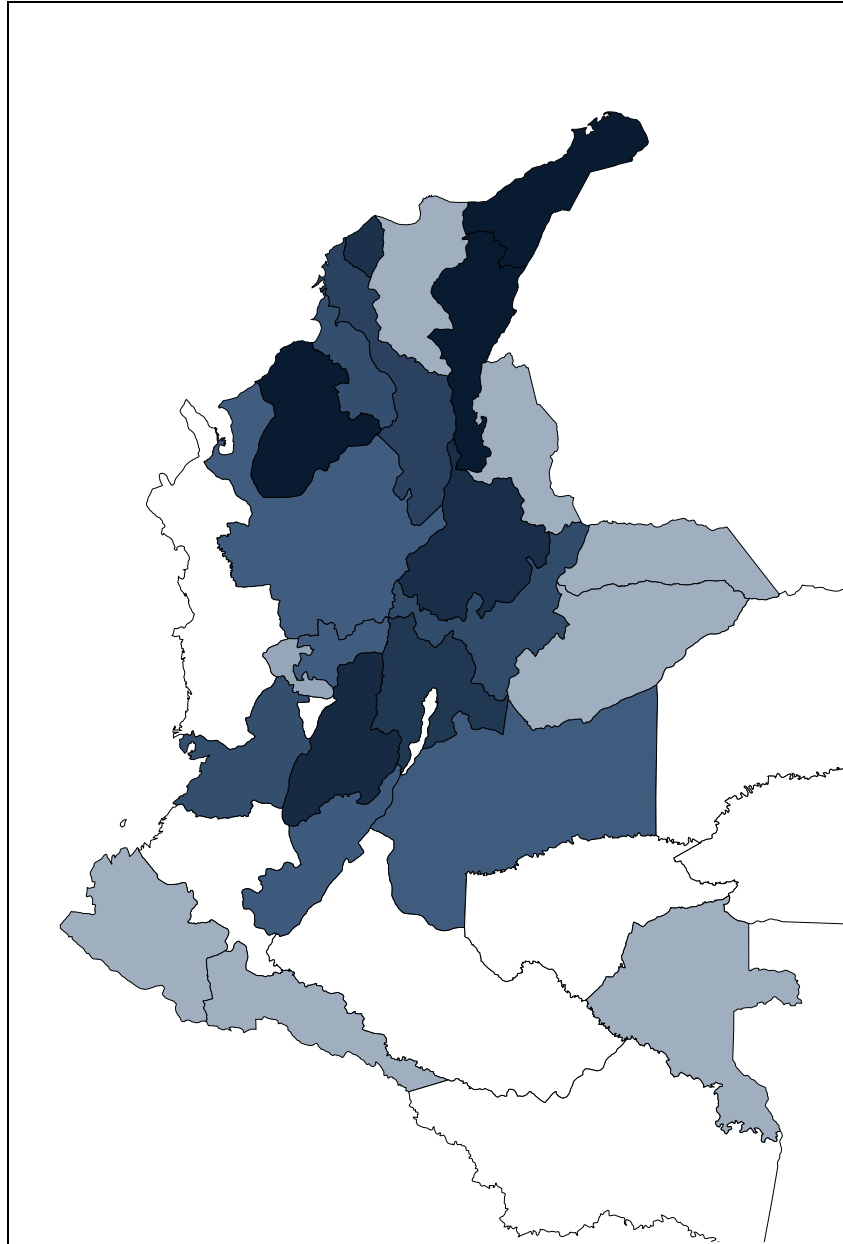
Capacidad de proyectos vigentes por departamento (MW)

| Departamento | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|---------|--------|------------|------------|-------|---------|-------|
| LA GUAJIRA | | 4.278 | | | 1.207 | | 5.485 |
| MAGDALENA | | 1.763 | | | 50 | 282 | 2.095 |
| CORDOBA | | 97 | | | 1.877 | | 1.975 |
| ATLANTICO | 5 | 995 | | | 619 | | 1.619 |
| CESAR | | 80 | | | 1.499 | | 1.579 |
| BOLIVAR | | 710 | | | 484 | | 1.194 |
| TOLIMA | | | | 311 | 677 | | 988 |
| CAUCA | | | | 839 | | | 839 |
| SANTANDER | | | | 102 | 644 | | 746 |
| VALLE | 5 | | | 79 | 389 | 270 | 743 |
| ANTIOQUIA | 8 | | | 415 | 270 | | 693 |
| CUNDINAMARCA | | | | 18 | 569 | | 586 |
| BOYACA | | | 10 | | 416 | | 426 |
| SUCRE | | | | | 391 | | 391 |
| CALDAS | | | | 88 | 273 | | 361 |

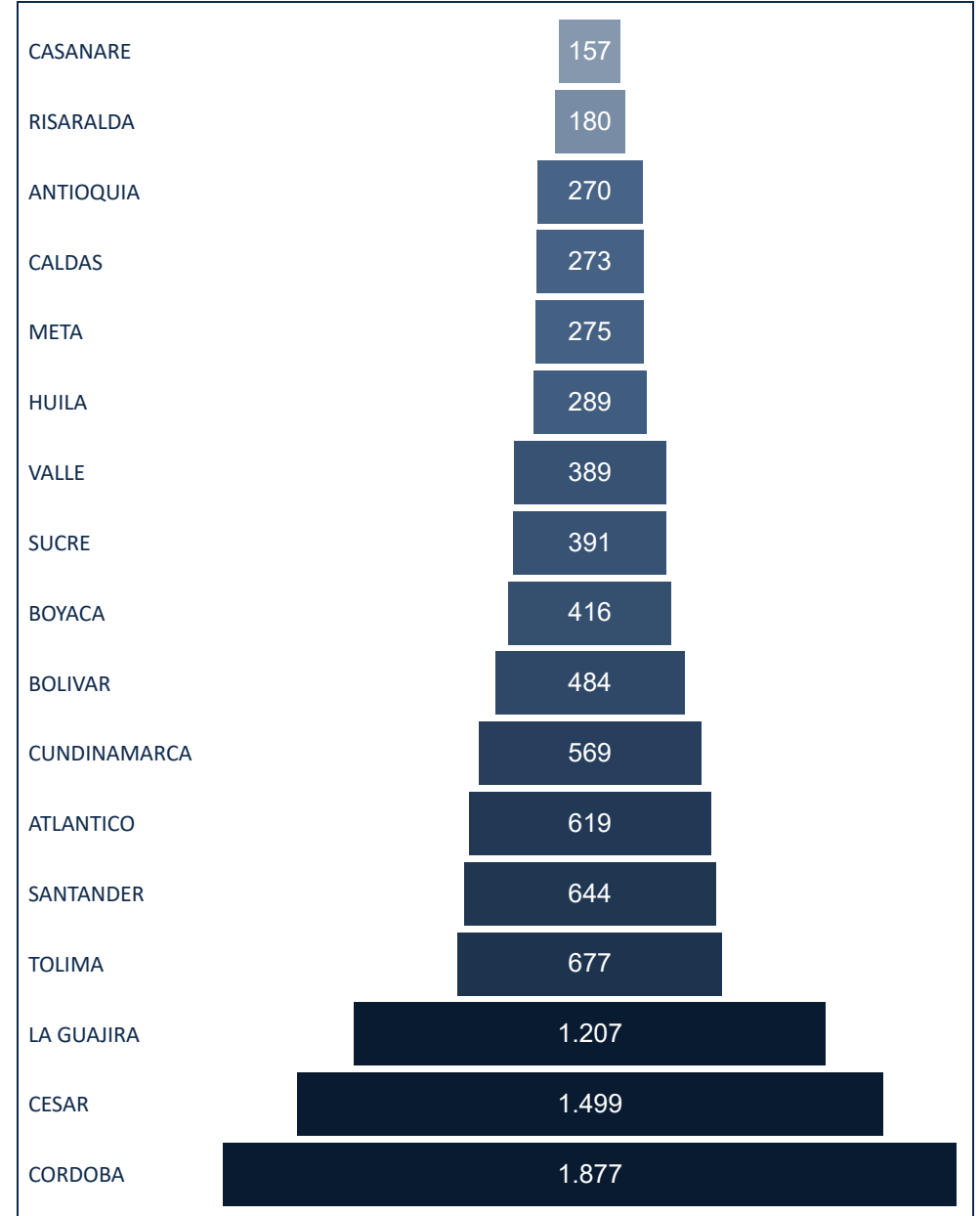
| Departamento | BIOMASA | HIDRÁULICO | SOLAR | Total |
|-----------------|---------|------------|-------|-------|
| HUILA | | | 289 | 289 |
| META | | | 275 | 275 |
| CASANARE | 25 | | 157 | 182 |
| RISARALDA | | | 180 | 180 |
| ARAUCA | | | 60 | 60 |
| NORTE SANTANDER | | | 40 | 40 |
| PUTUMAYO | | | 10 | 10 |
| VAUPES | | | 8 | 8 |
| QUINDIO | | 6 | | 6 |
| NARIÑO | | | 5 | 5 |



Capacidad de proyectos solares vigentes (MW)

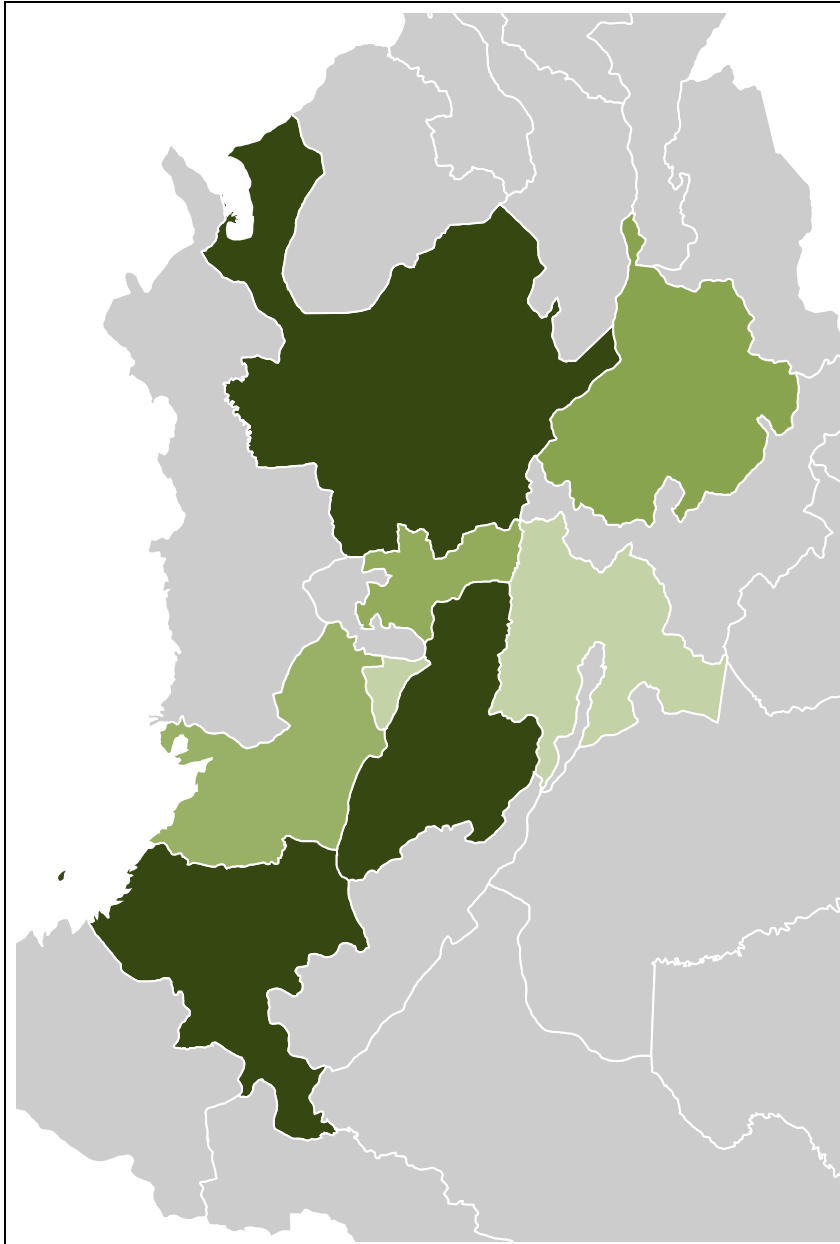


| Departamento | Número de Proyectos | Capacidad MW |
|-----------------|---------------------|---------------|
| CORDOBA | 24 | 1.877 |
| CESAR | 18 | 1.499 |
| LA GUAJIRA | 6 | 1.207 |
| TOLIMA | 22 | 677 |
| SANTANDER | 11 | 644 |
| ATLANTICO | 9 | 619 |
| CUNDINAMARCA | 11 | 569 |
| BOLIVAR | 24 | 484 |
| BOYACA | 10 | 416 |
| SUCRE | 15 | 391 |
| VALLE | 16 | 389 |
| HUILA | 12 | 289 |
| META | 5 | 275 |
| CALDAS | 6 | 273 |
| ANTIOQUIA | 9 | 270 |
| RISARALDA | 2 | 180 |
| CASANARE | 4 | 157 |
| ARAUCA | 3 | 60 |
| MAGDALENA | 5 | 50 |
| NORTE SANTANDER | 1 | 40 |
| PUTUMAYO | 1 | 10 |
| VAUPES | 1 | 8 |
| NARIÑO | 1 | 5 |
| Total | 216 | 10.389 |

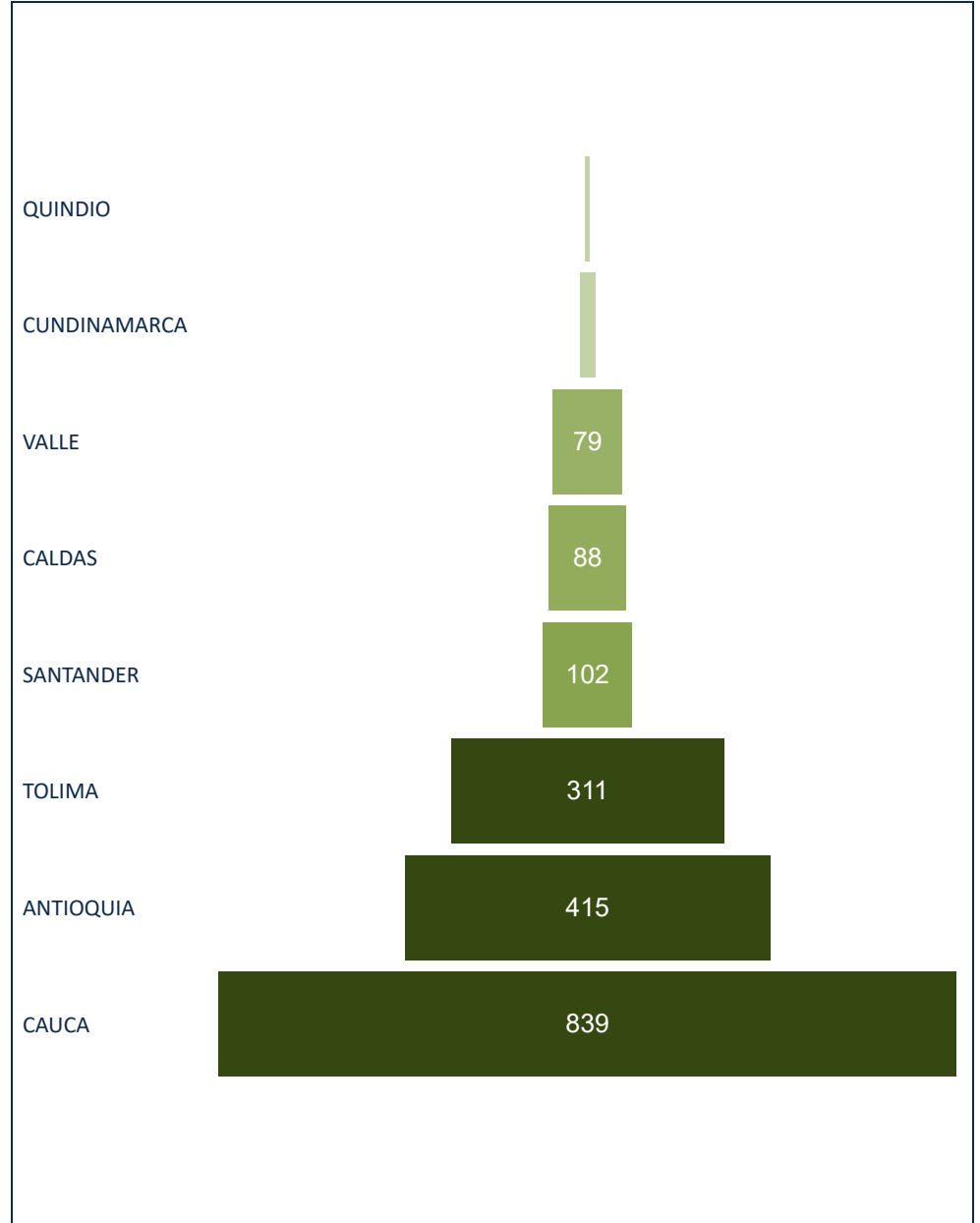




Capacidad de proyectos hidráulicos vigentes (MW)

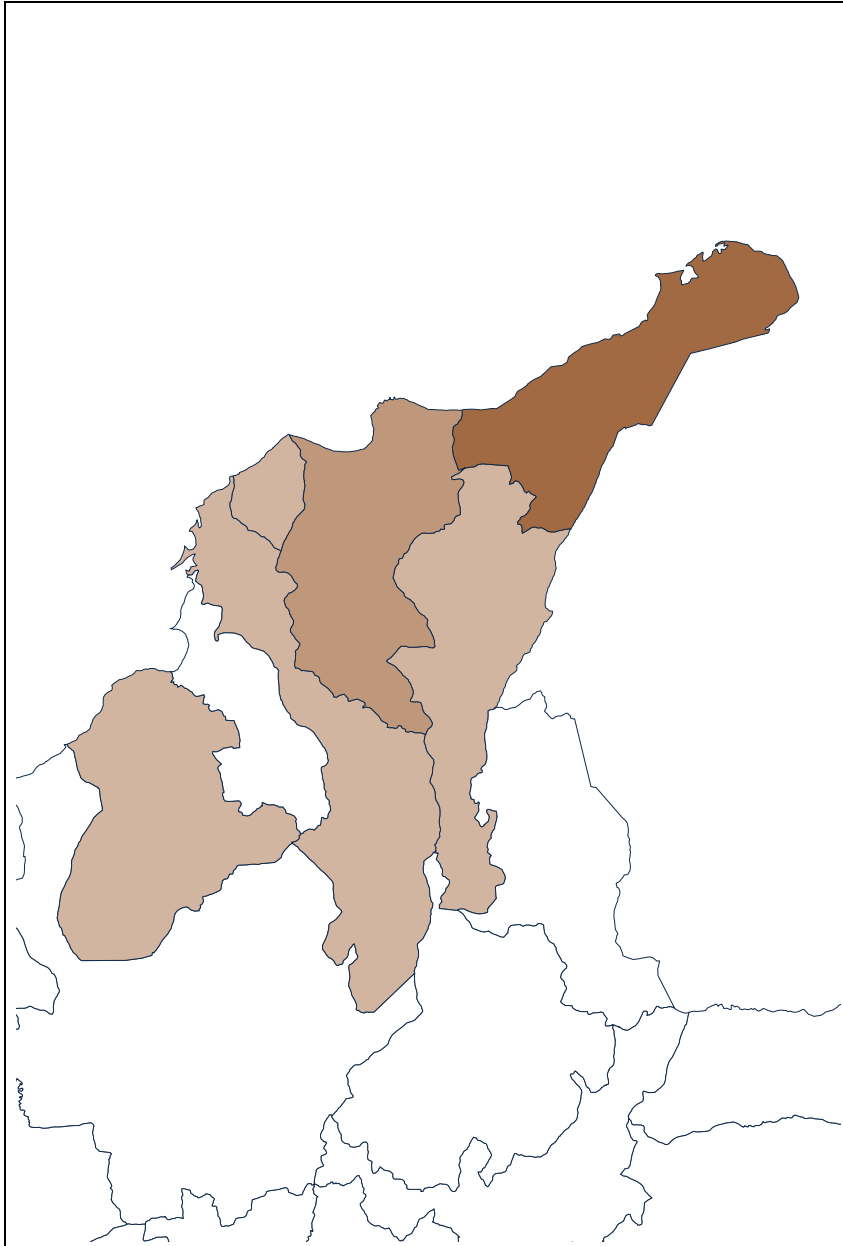


| Departamento | Número de Proyectos | Capacidad MW |
|--------------|---------------------|--------------|
| CAUCA | 6 | 839 |
| ANTIOQUIA | 18 | 415 |
| TOLIMA | 3 | 311 |
| SANTANDER | 6 | 102 |
| CALDAS | 9 | 88 |
| VALLE | 2 | 79 |
| CUNDINAMARCA | 1 | 18 |
| QUINDIO | 1 | 6 |
| Total | 46 | 1.857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

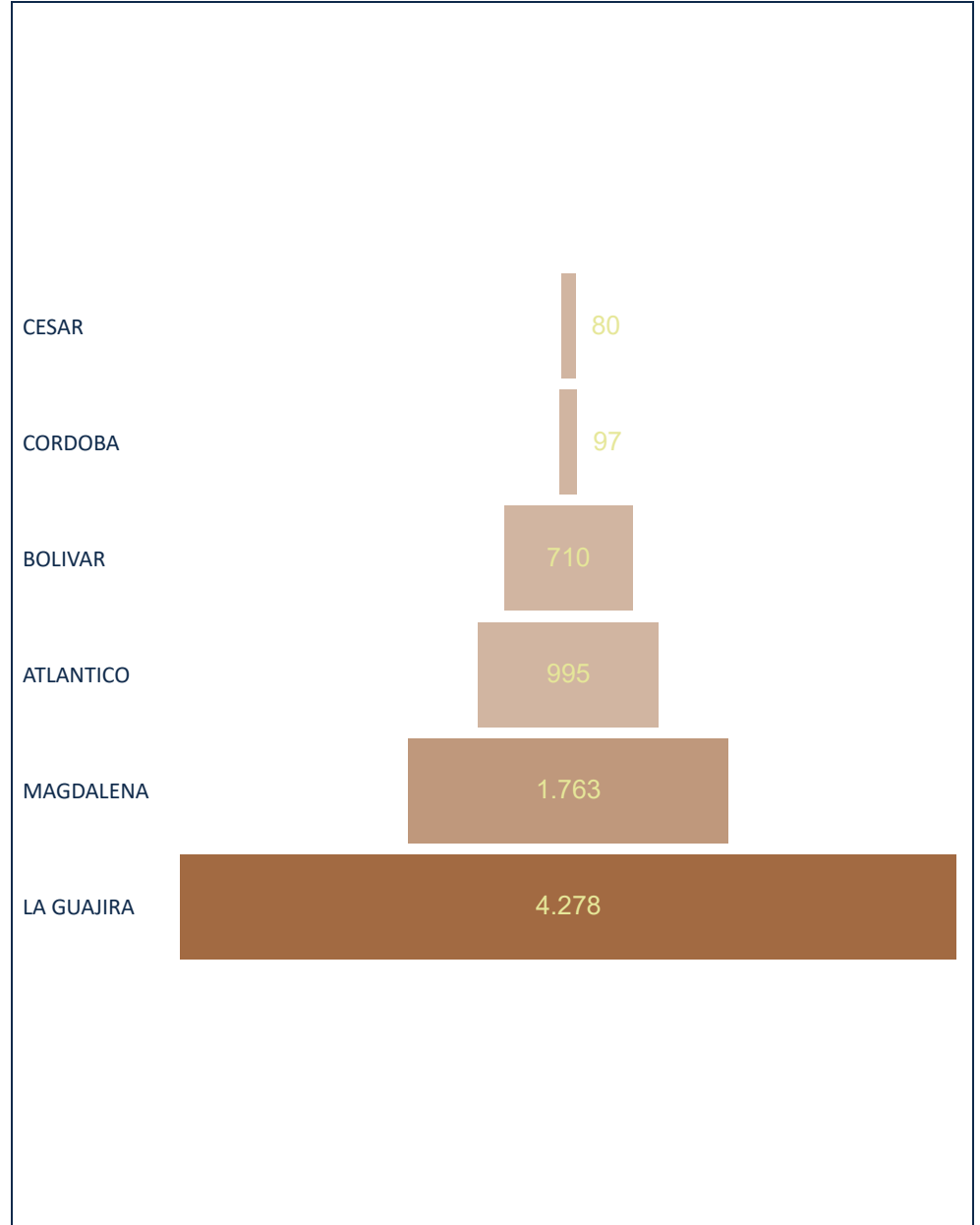




Capacidad de proyectos eólicos vigentes (MW)

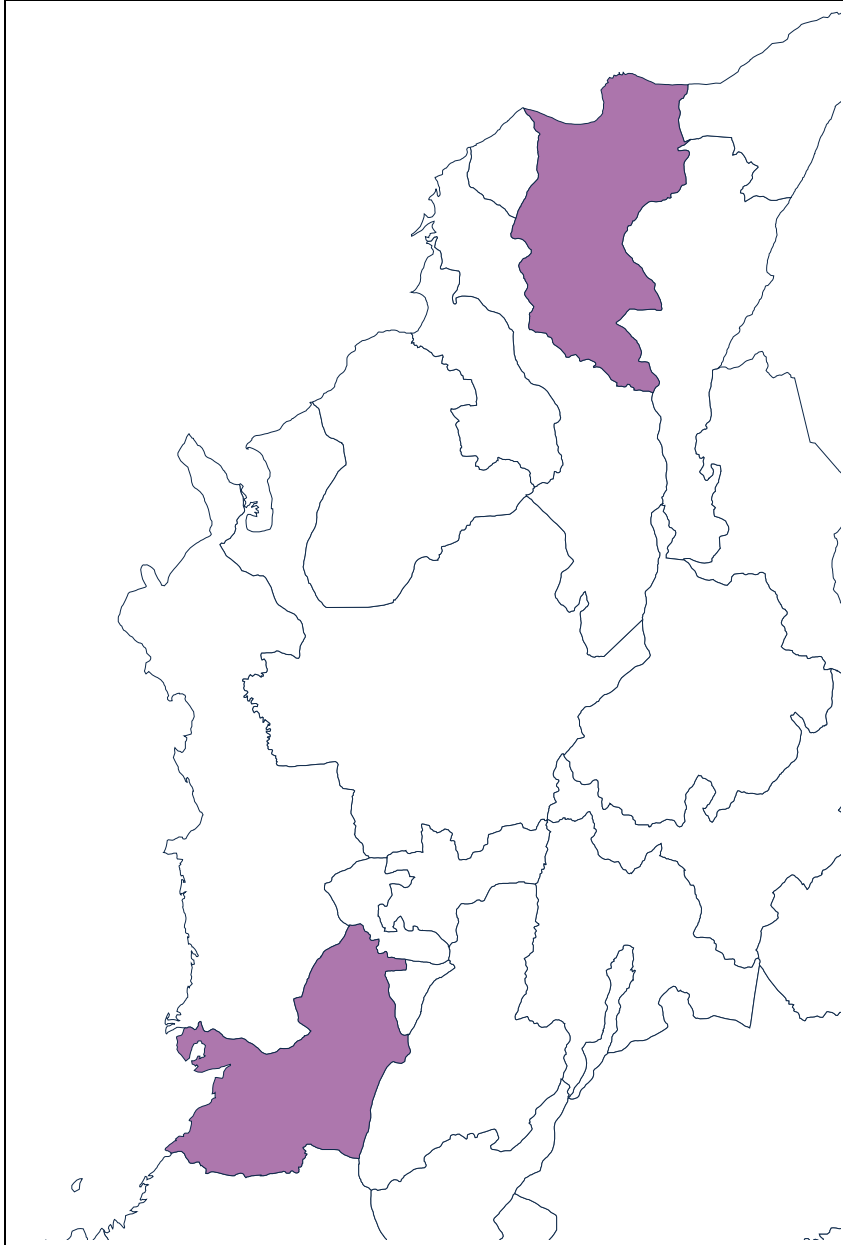


| Departamento | Número de Proyectos | Capacidad MW |
|--------------|---------------------|--------------|
| LA GUAJIRA | 16 | 4.278 |
| MAGDALENA | 5 | 1.763 |
| ATLANTICO | 3 | 995 |
| BOLIVAR | 2 | 710 |
| CESAR | 1 | 80 |
| CORDOBA | 1 | 97 |
| Total | 28 | 7.923 |

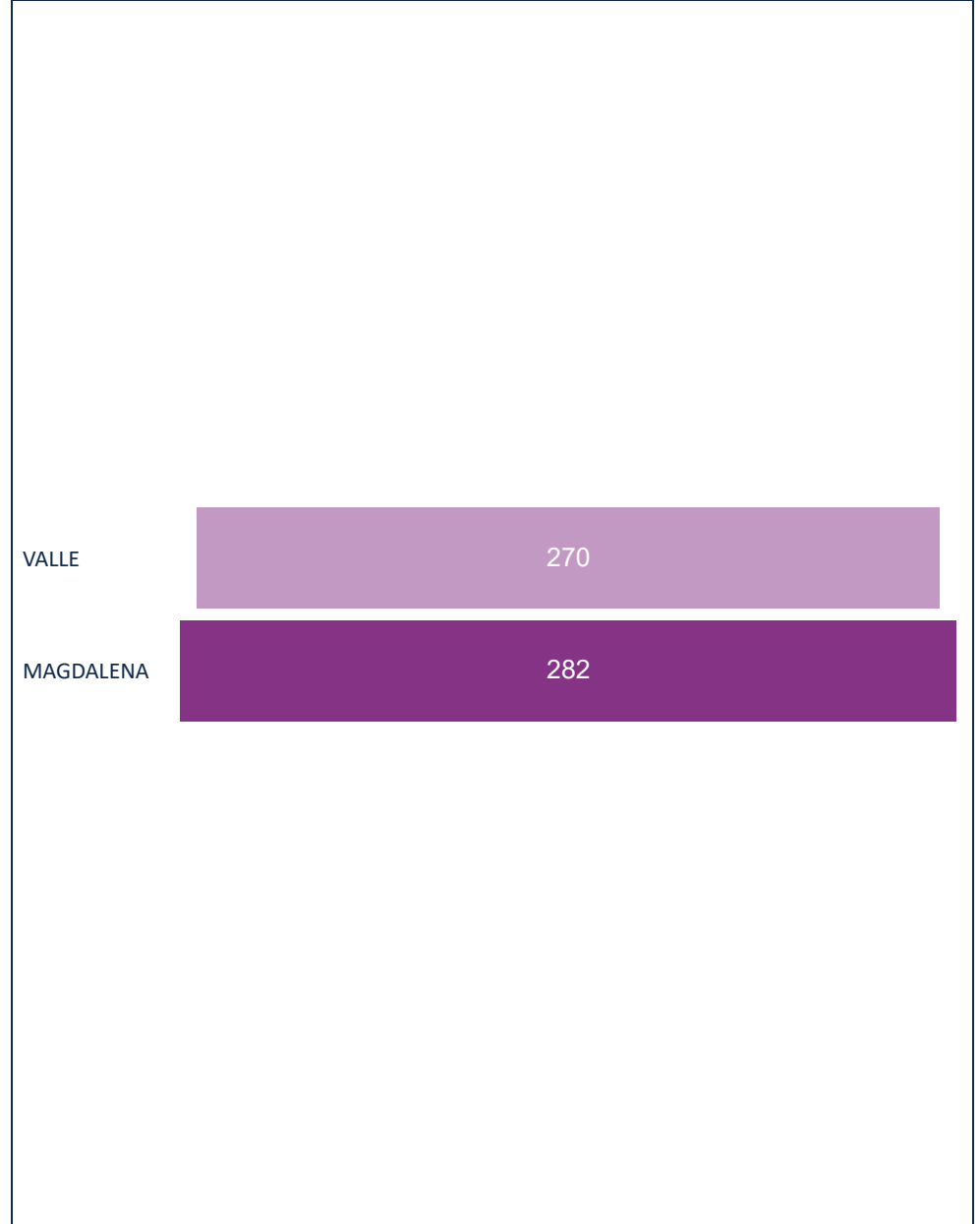




Capacidad de proyectos térmicos vigentes (MW)

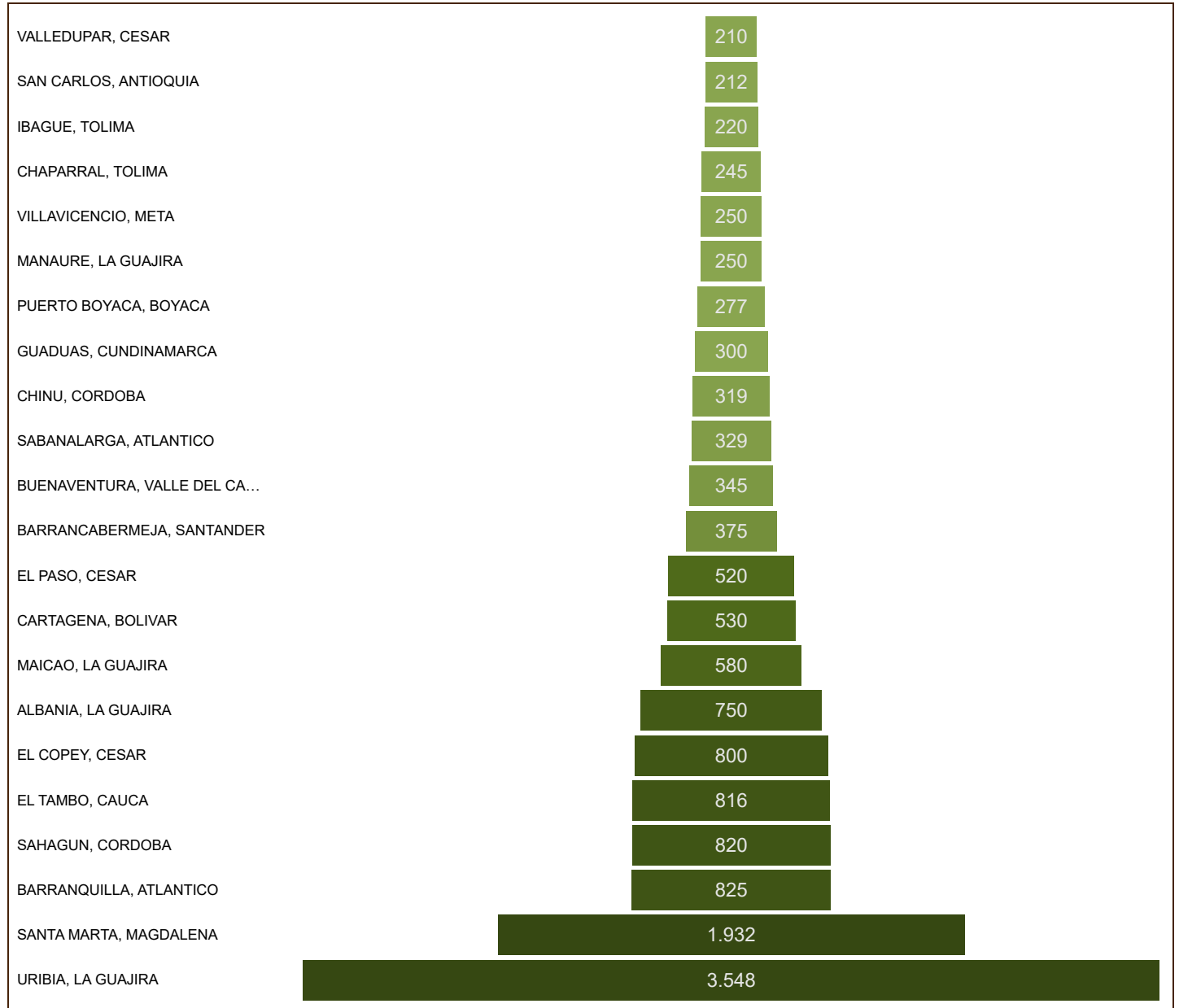
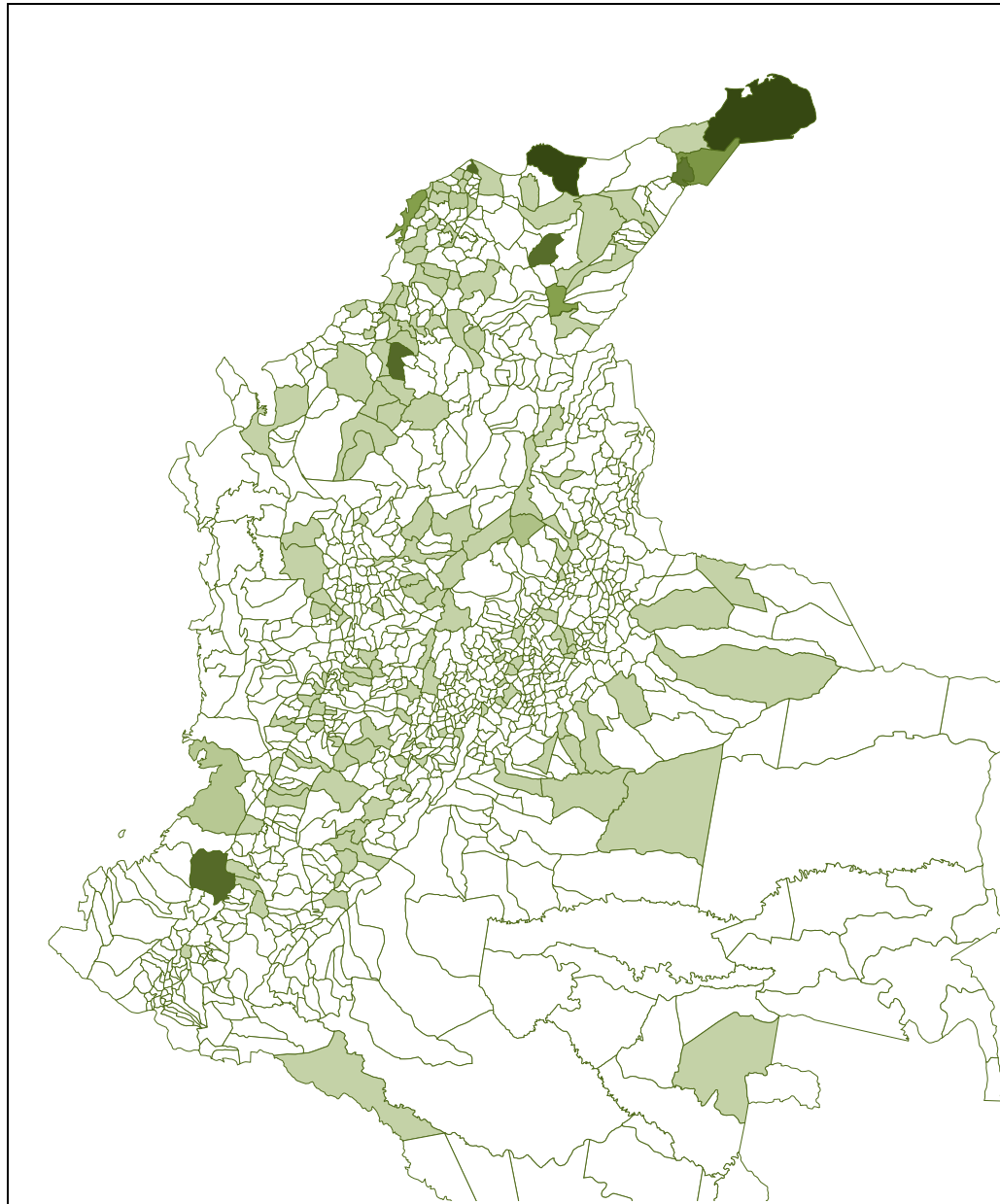


| NC Departamento | Número de Proyectos | Capacidad MW |
|-----------------|---------------------|--------------|
| MAGDALENA | 3 | 282 |
| VALLE | 1 | 270 |
| Total | 4 | 552 |





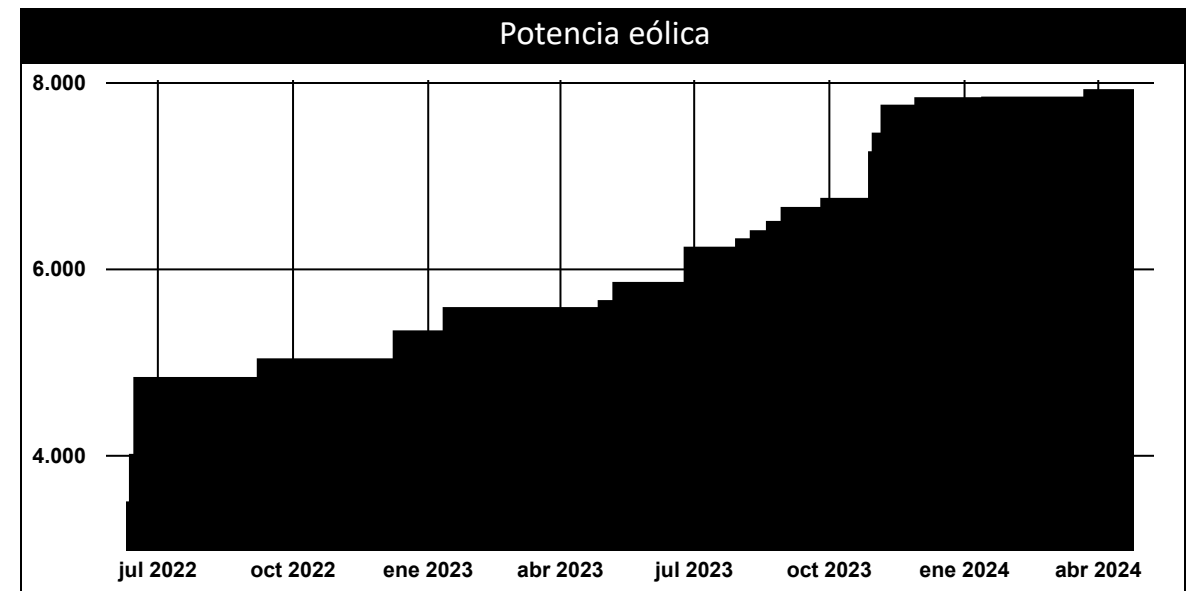
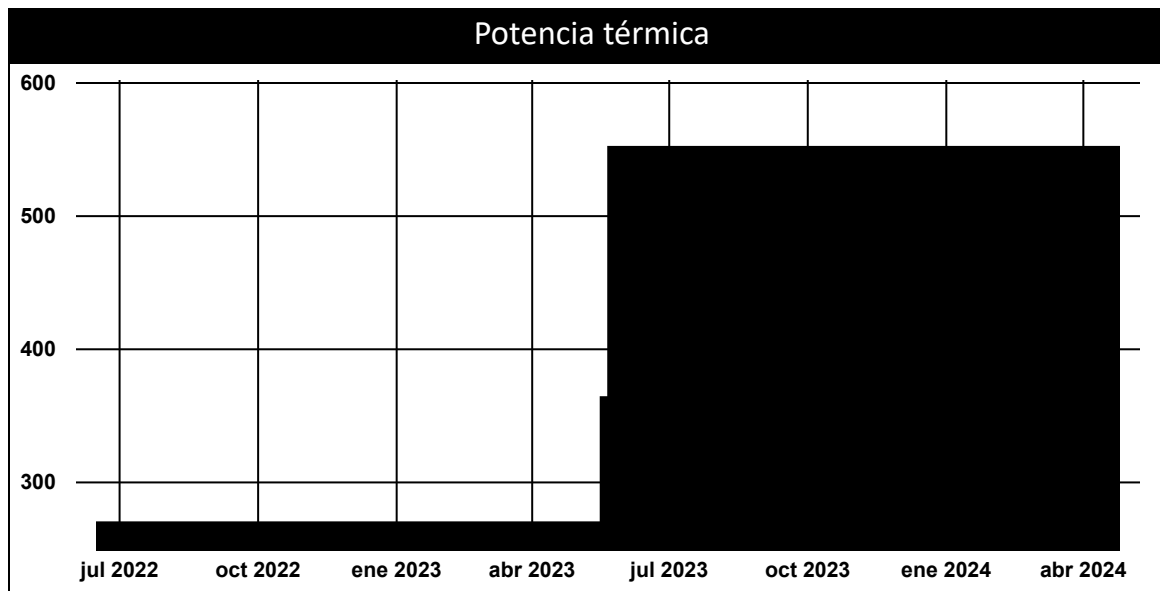
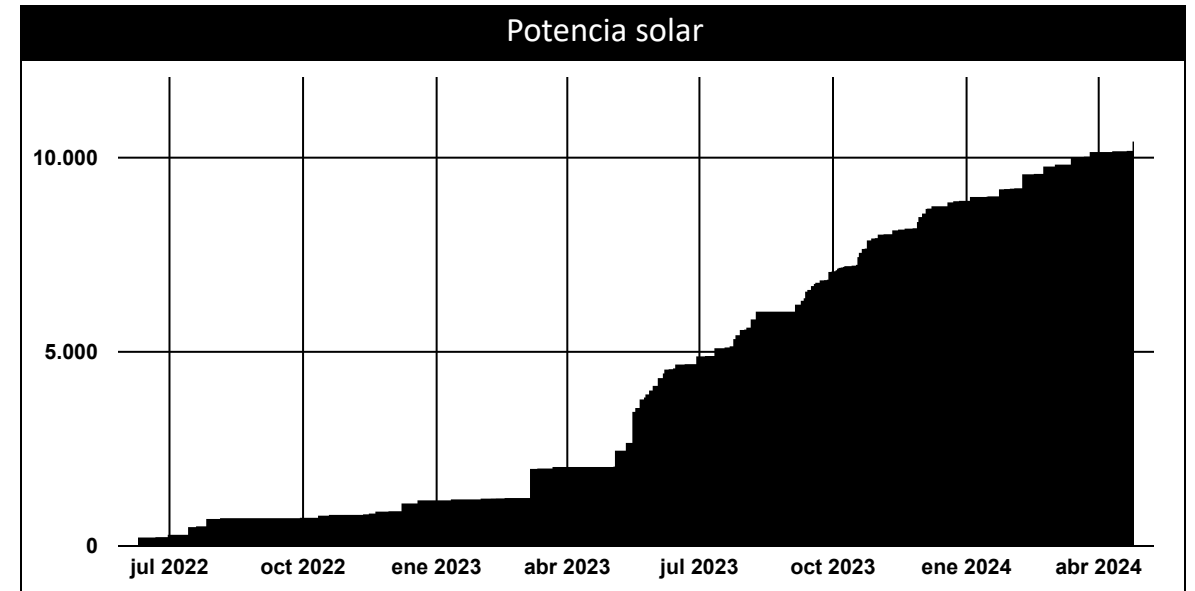
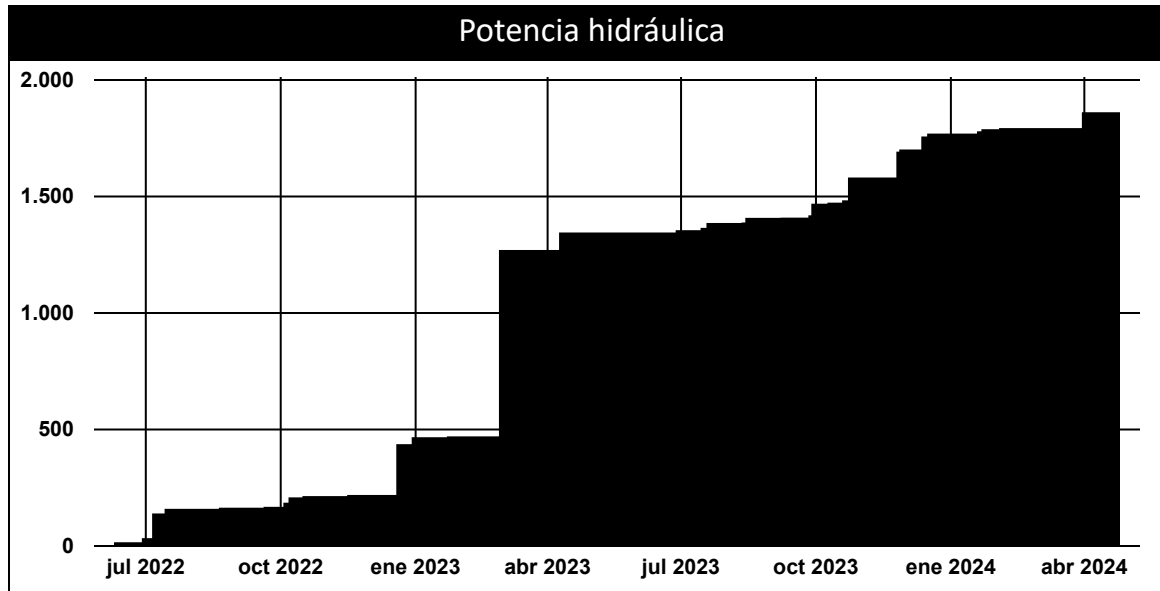
Capacidad de proyectos vigentes por municipio (MW)





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

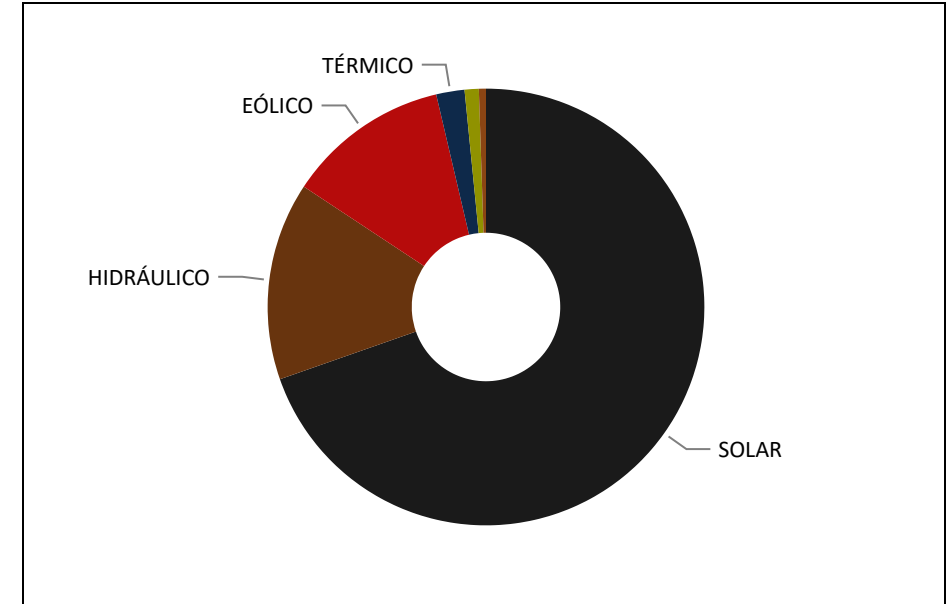
Corte a abril 30 de 2024



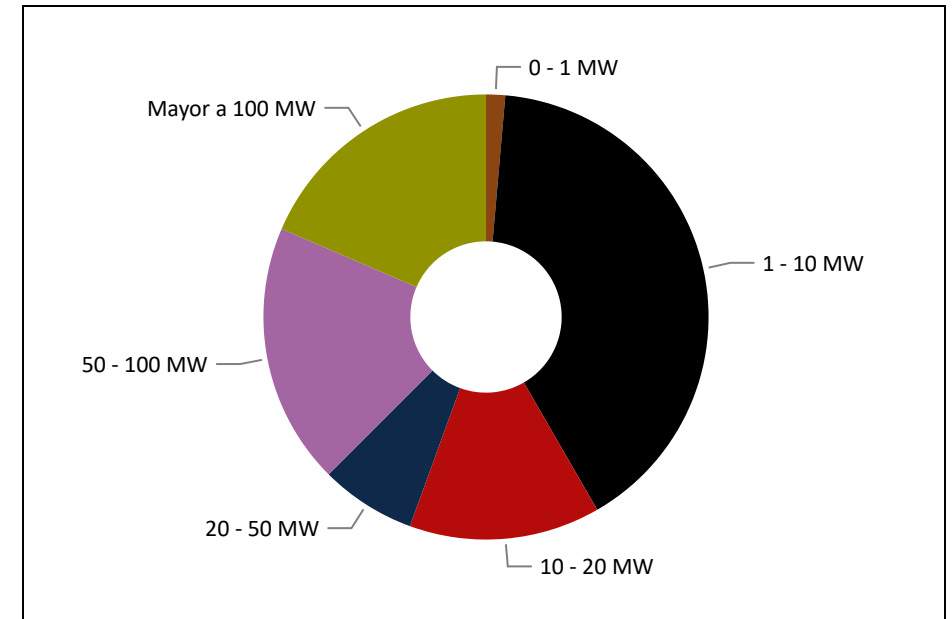


Número de promotores

| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|----------|-----------|------------|------------|------------|----------|------------|
| Mayor a 100 MW | | 15 | | 2 | 22 | 1 | 40 |
| 50 - 100 MW | | 7 | | 5 | 26 | 3 | 41 |
| 20 - 50 MW | 1 | 1 | | 3 | 10 | | 15 |
| 10 - 20 MW | | | | 7 | 23 | | 30 |
| 1 - 10 MW | 1 | 2 | 1 | 15 | 70 | | 87 |
| 0 - 1 MW | | | | 1 | 2 | | 3 |
| Total | 2 | 23 | 1 | 28 | 133 | 4 | 187 |

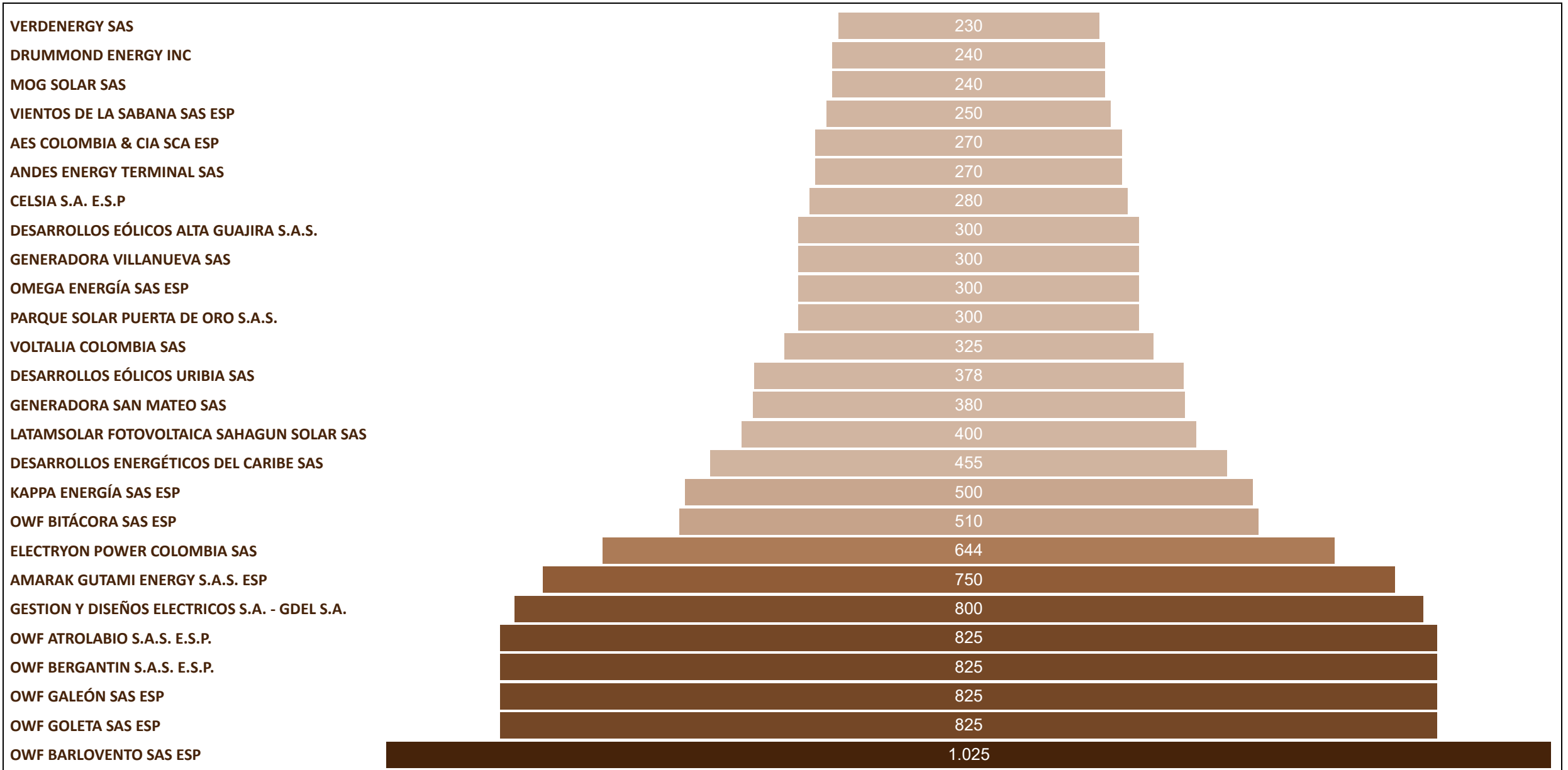


| Rango | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|--------------|---------------|--------------|---------------|---------------|--------------|----------------|
| Mayor a 100 MW | | 8,02% | | 1,07% | 11,76% | 0,53% | 21,39% |
| 50 - 100 MW | | 3,74% | | 2,67% | 13,90% | 1,60% | 21,93% |
| 20 - 50 MW | 0,53% | 0,53% | | 1,60% | 5,35% | | 8,02% |
| 10 - 20 MW | | | | 3,74% | 12,30% | | 16,04% |
| 1 - 10 MW | 0,53% | 1,07% | 0,53% | 8,02% | 37,43% | | 46,52% |
| 0 - 1 MW | | | | 0,53% | 1,07% | | 1,60% |
| Total | 1,07% | 12,30% | 0,53% | 14,97% | 71,12% | 2,14% | 100,00% |





Potencia por promotor MW





Contáctenos en :
correspondencia@upme.gov.co

www.upme.gov.co