

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 noviembre 30 de 2020)

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



**El futuro
es de todos**

Minenergía

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

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Apoyo Editorial

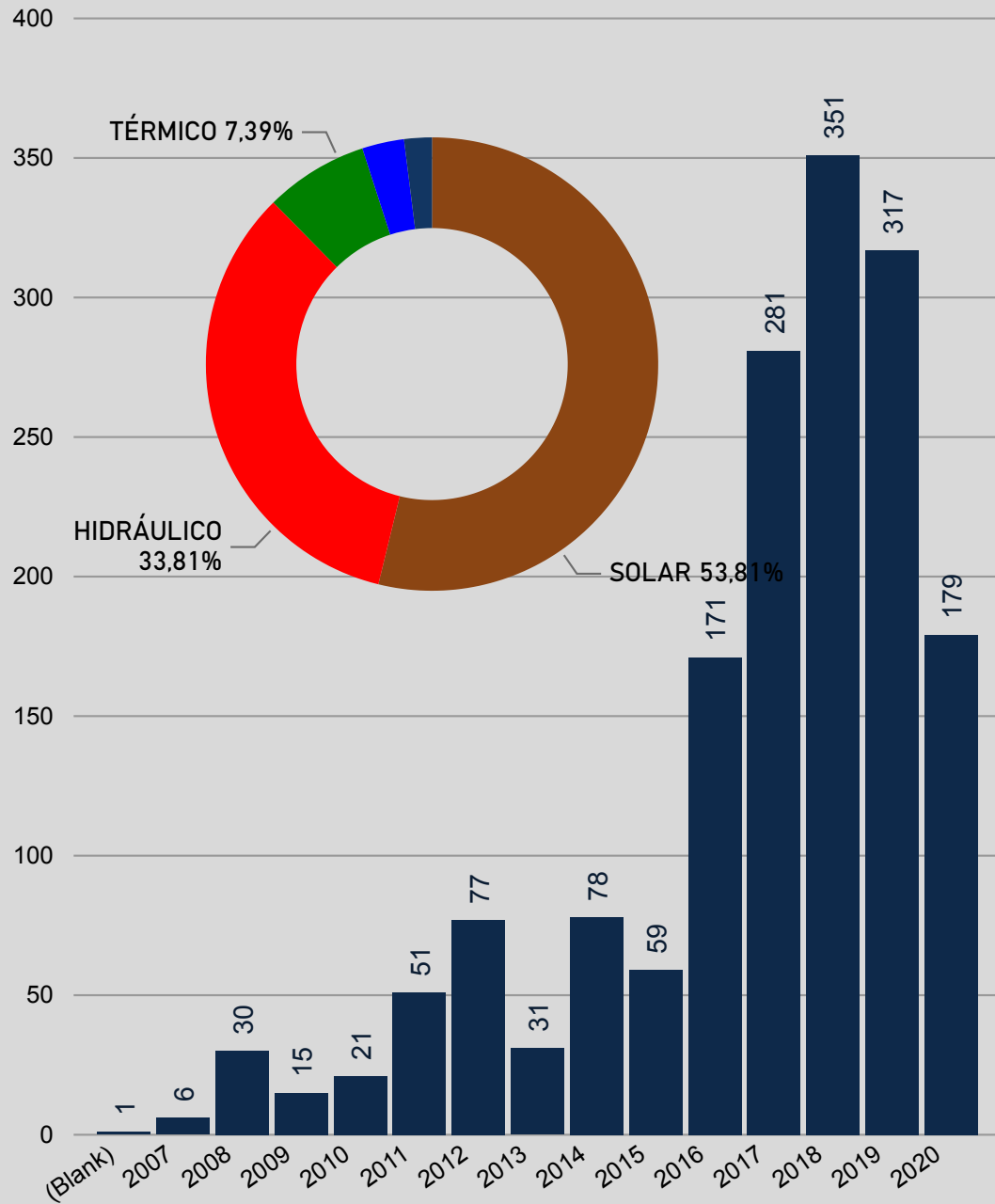
Angie Katherine Torres
Oliver Díaz Iglesias

Diseño y Diagramación

Carlos Fernando Valles Franco

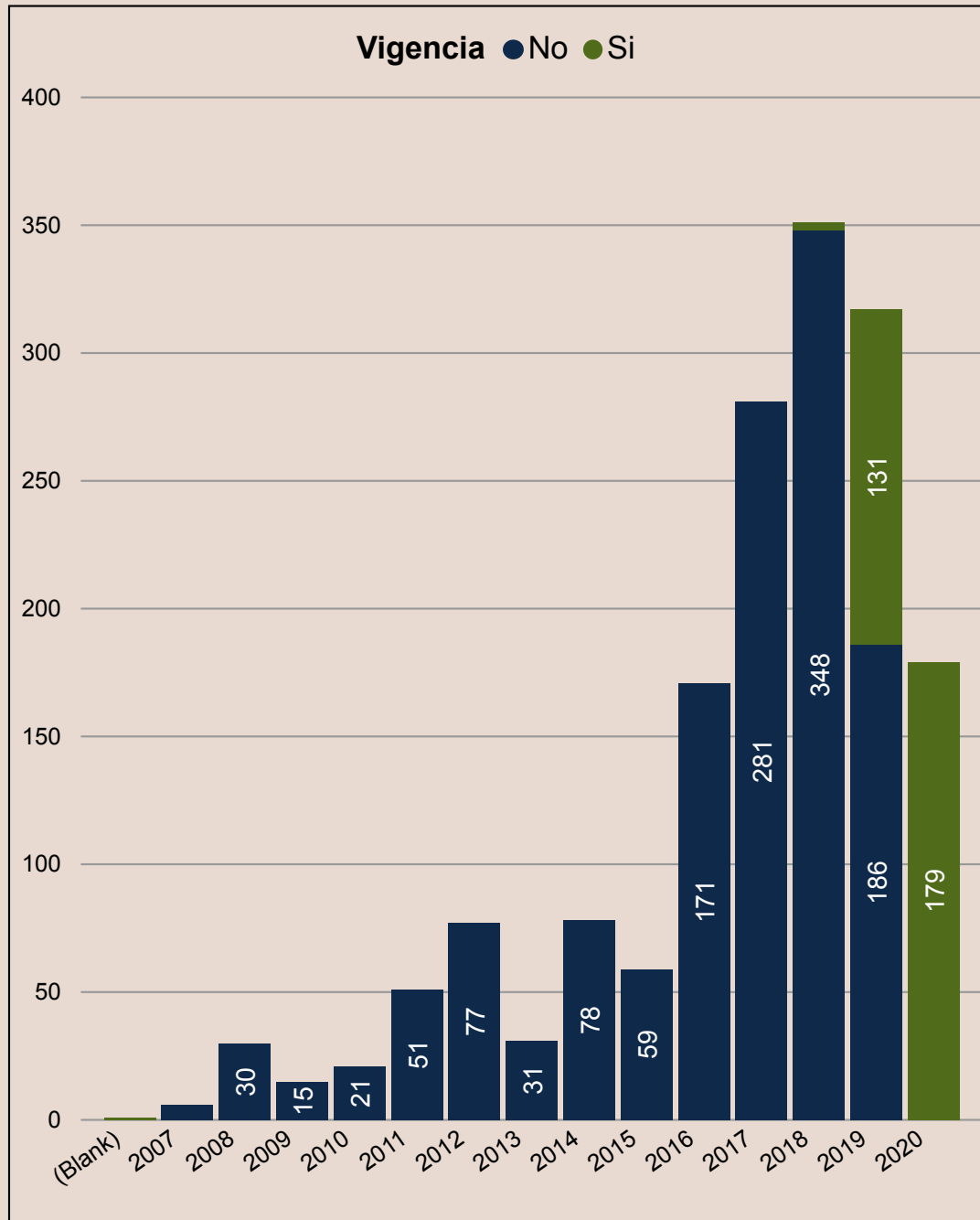
Hecho en Colombia
Año 2020

Número de proyectos presentados

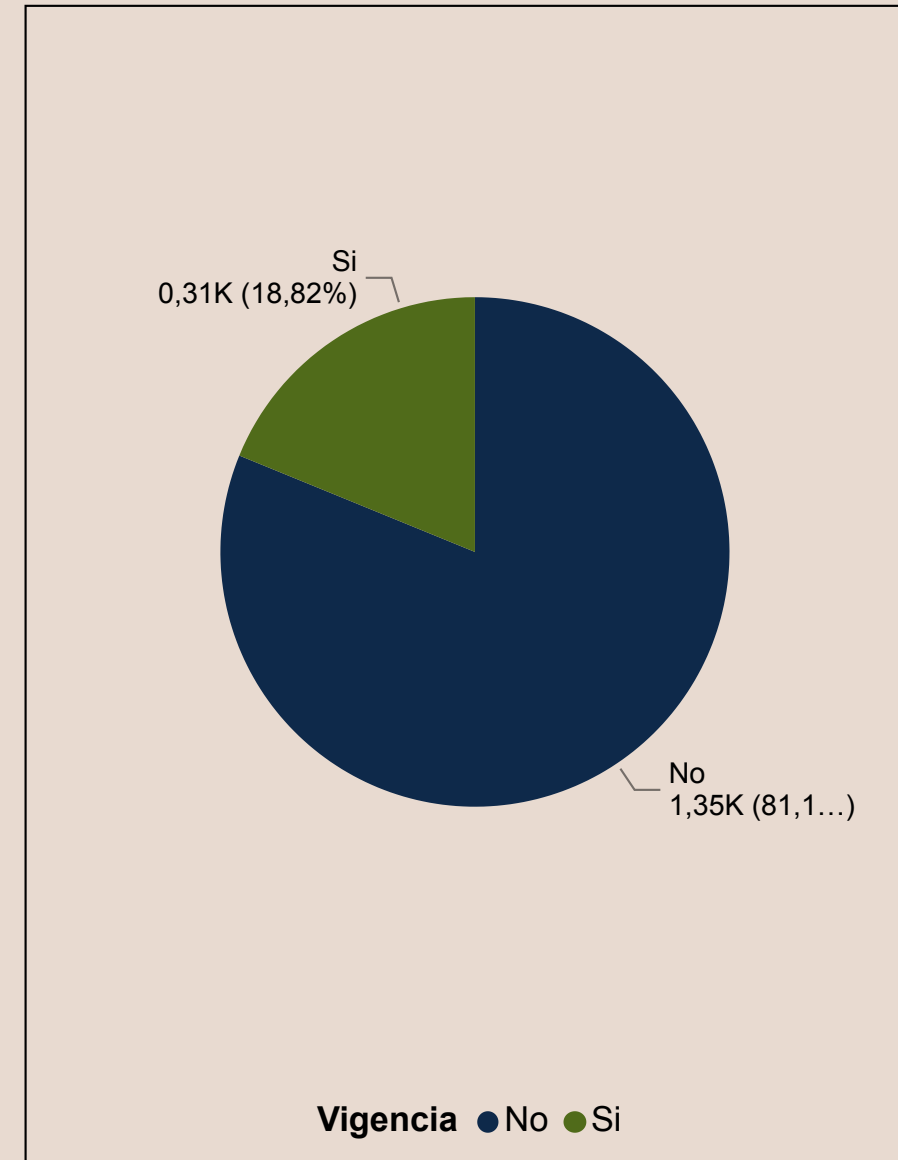


| Year | BIOMASA | EÓLICO | GEOTÉRMICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|-----------|-----------|------------|------------|------------|------------|-------------|
| 2007 | | | | 4 | | 2 | 6 |
| 2008 | | | | 9 | | 21 | 30 |
| 2009 | 1 | | | 14 | | | 15 |
| 2010 | | | | 20 | | 1 | 21 |
| 2011 | 1 | | | 32 | | 18 | 51 |
| 2012 | | 1 | | 76 | | | 77 |
| 2013 | 1 | | | 27 | | 3 | 31 |
| 2014 | 2 | | | 73 | 1 | 2 | 78 |
| 2015 | | 4 | 1 | 46 | | 8 | 59 |
| 2016 | 8 | 1 | | 47 | 110 | 5 | 171 |
| 2017 | 6 | 3 | | 47 | 222 | 2 | 280 |
| 2018 | 9 | 8 | | 69 | 235 | 30 | 351 |
| 2019 | 4 | 19 | | 51 | 216 | 27 | 317 |
| 2020 | 1 | 14 | | 48 | 112 | 4 | 179 |
| Total | 33 | 50 | 1 | 563 | 896 | 123 | 1666 |

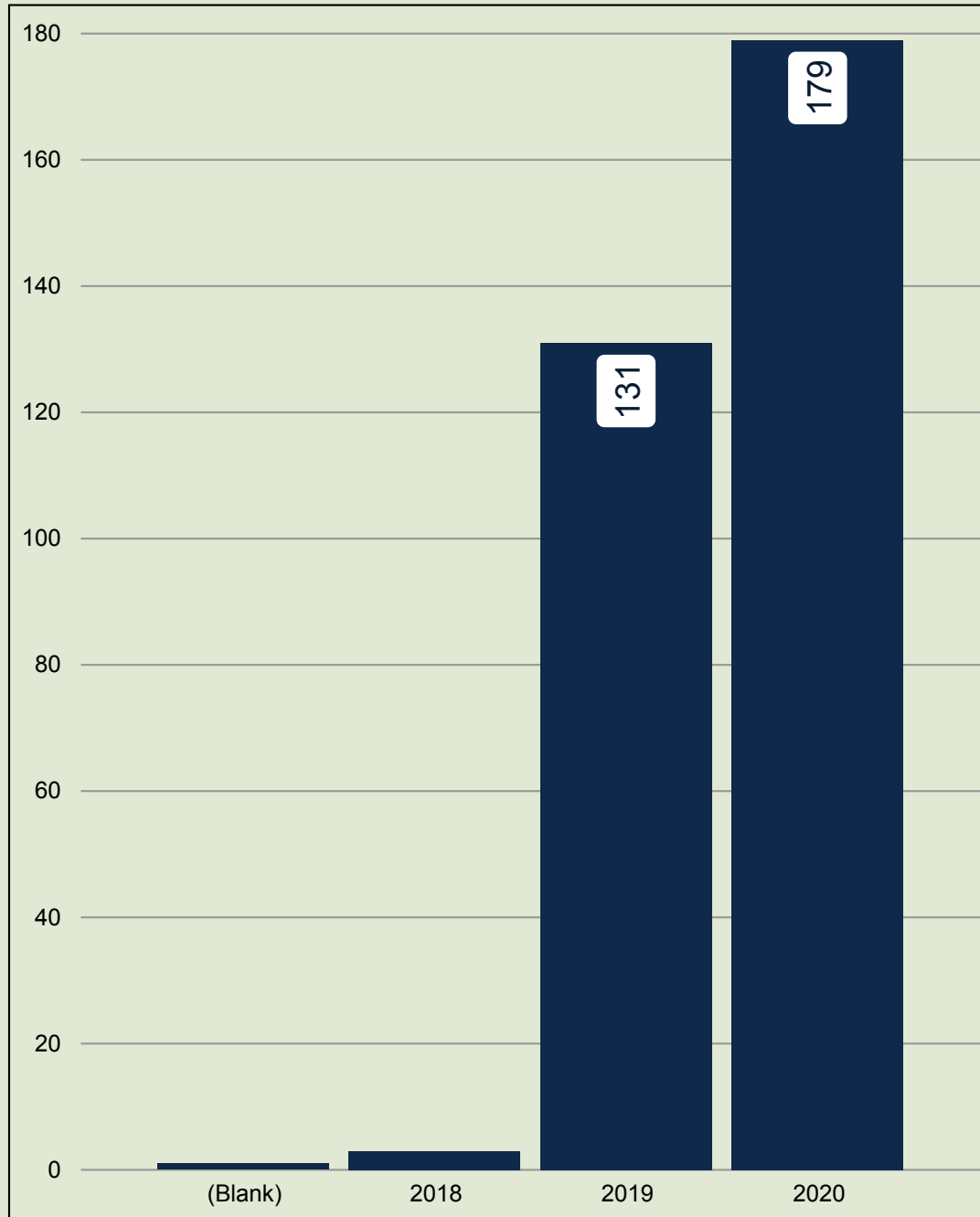
Número de proyectos presentados según su vigencia



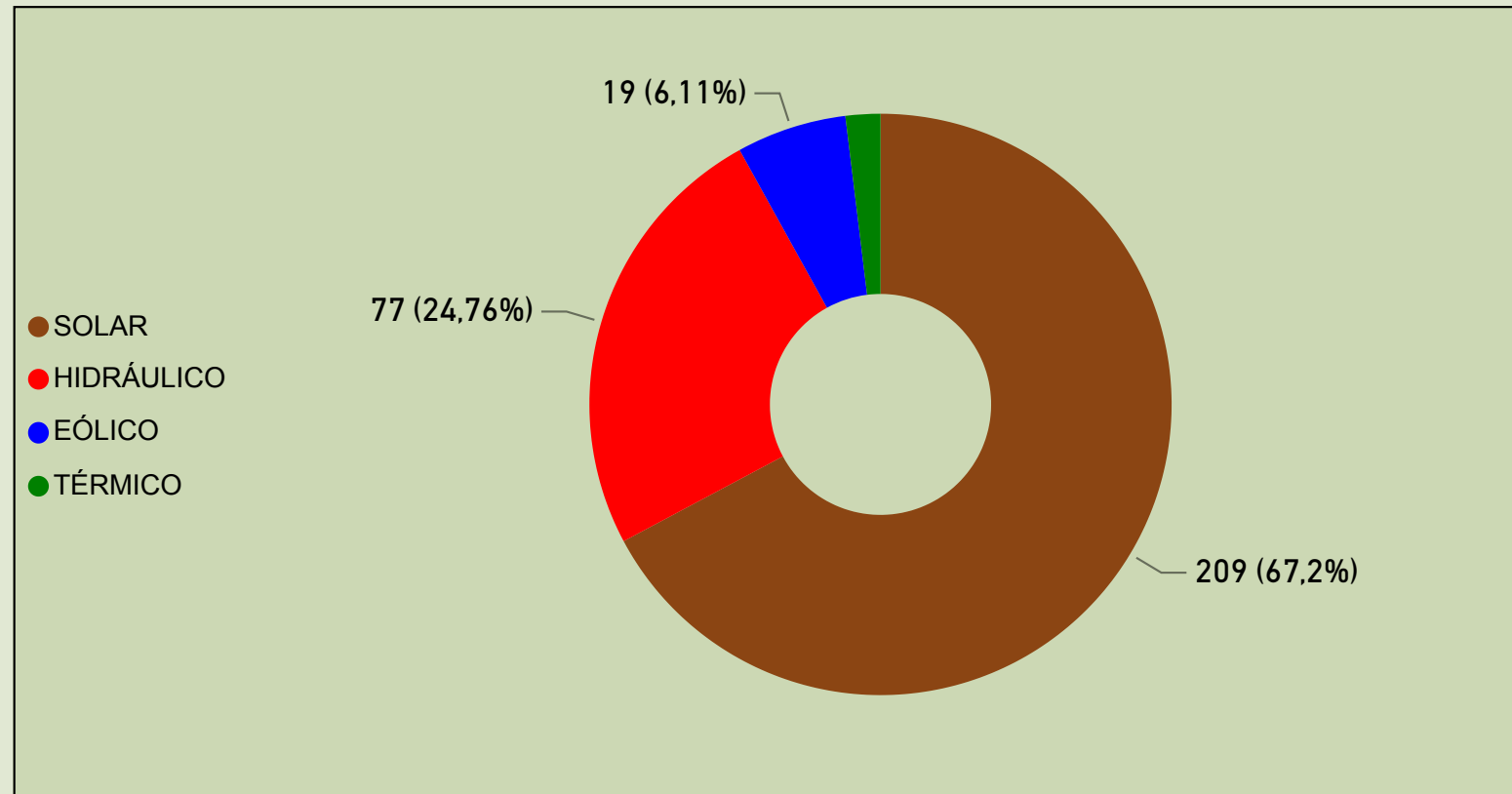
| Year | No | Si | Total |
|--------------|-------------|------------|-------------|
| 2007 | 6 | 0 | 6 |
| 2008 | 30 | 0 | 30 |
| 2009 | 15 | 0 | 15 |
| 2010 | 21 | 0 | 21 |
| 2011 | 51 | 0 | 51 |
| 2012 | 77 | 0 | 77 |
| 2013 | 31 | 0 | 31 |
| 2014 | 78 | 0 | 78 |
| 2015 | 59 | 0 | 59 |
| 2016 | 171 | 0 | 171 |
| 2017 | 281 | 0 | 281 |
| 2018 | 348 | 3 | 351 |
| 2019 | 186 | 131 | 317 |
| 2020 | 179 | 0 | 179 |
| Total | 1354 | 313 | 1667 |



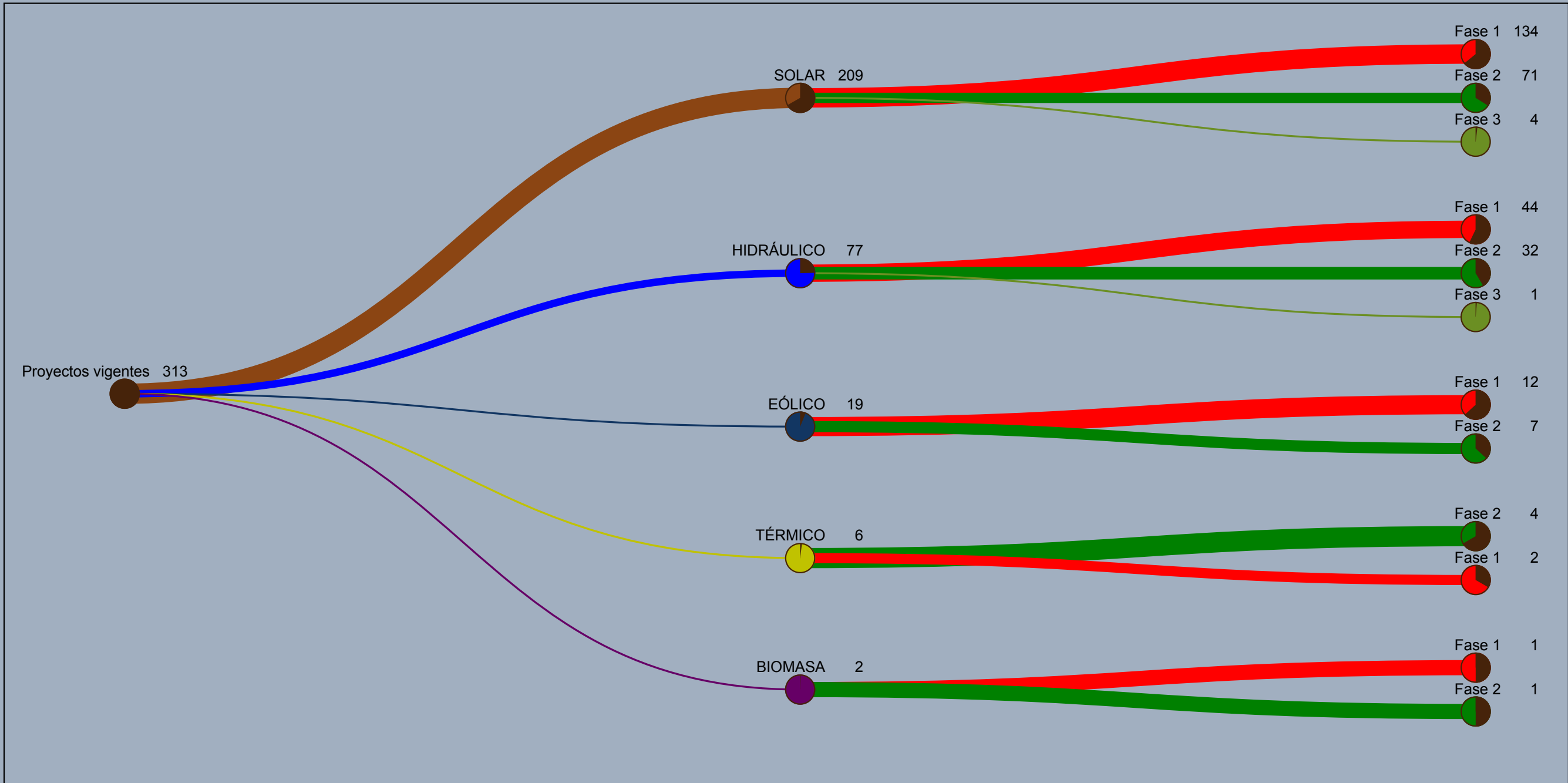
Número de proyectos vigentes



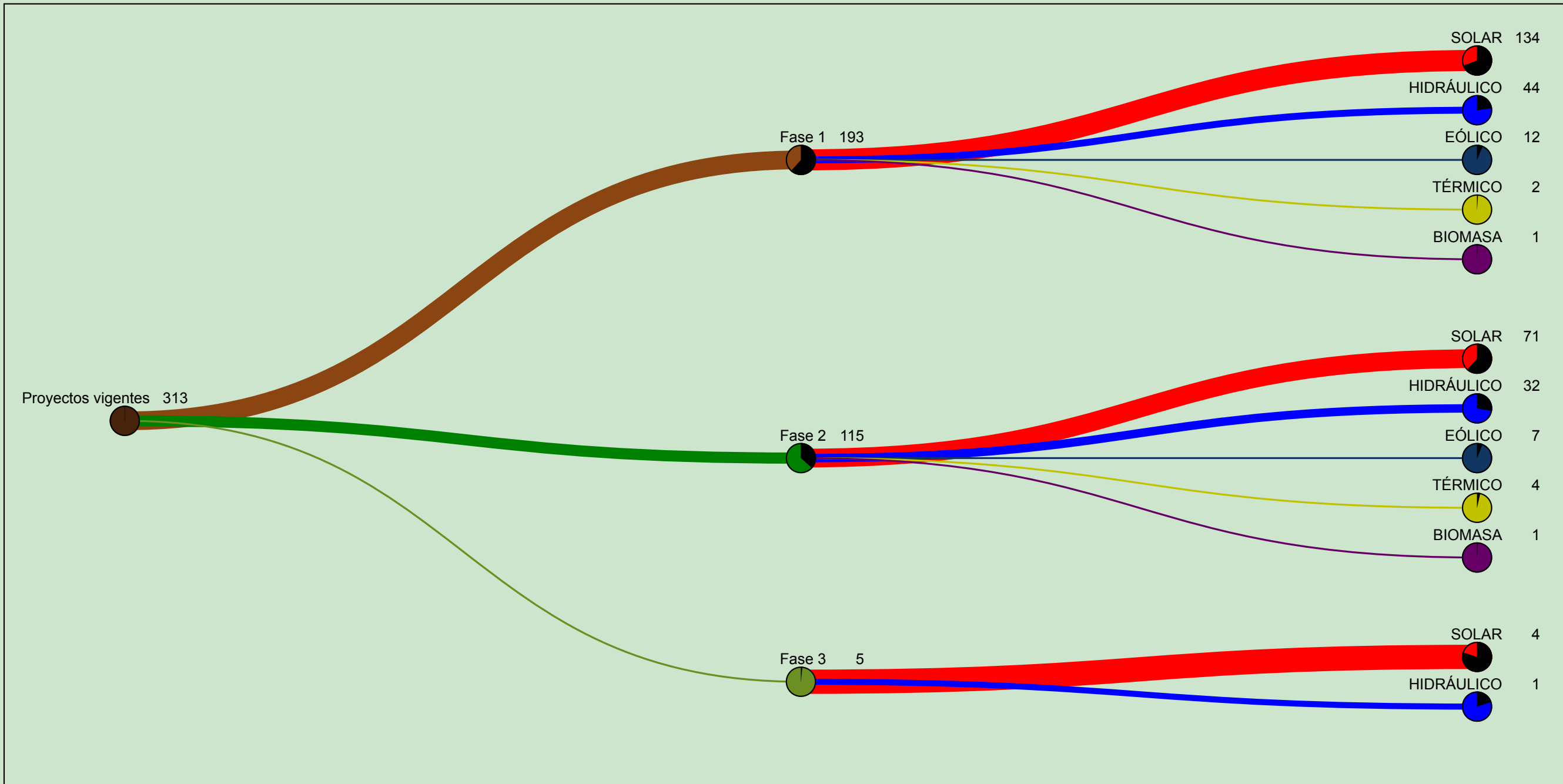
| Year | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|----------|-----------|------------|------------|----------|------------|
| 2018 | | | 2 | 1 | | 3 |
| 2019 | 1 | 5 | 27 | 96 | 2 | 131 |
| 2020 | 1 | 14 | 48 | 112 | 4 | 179 |
| Total | 2 | 19 | 77 | 209 | 6 | 313 |



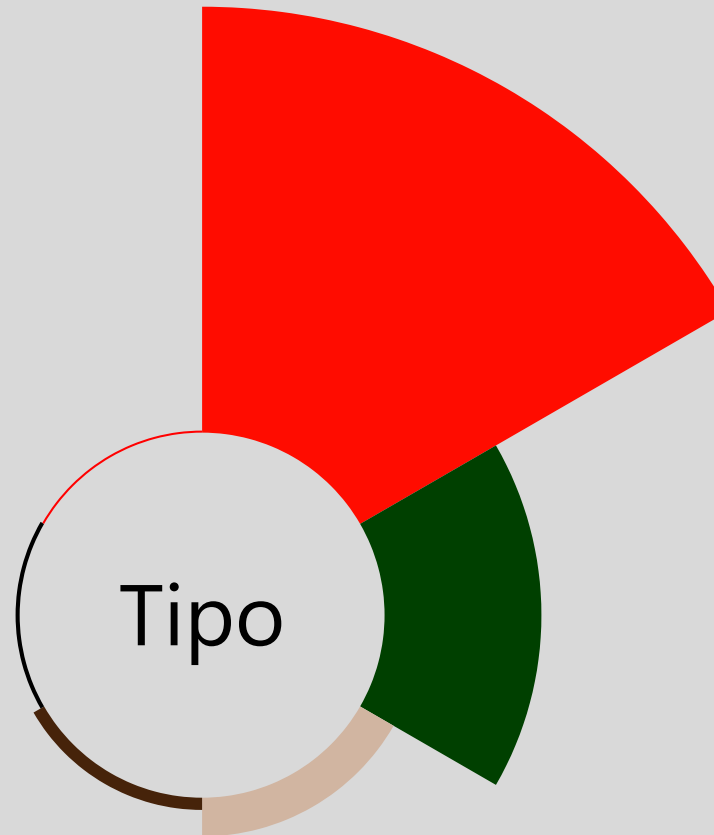
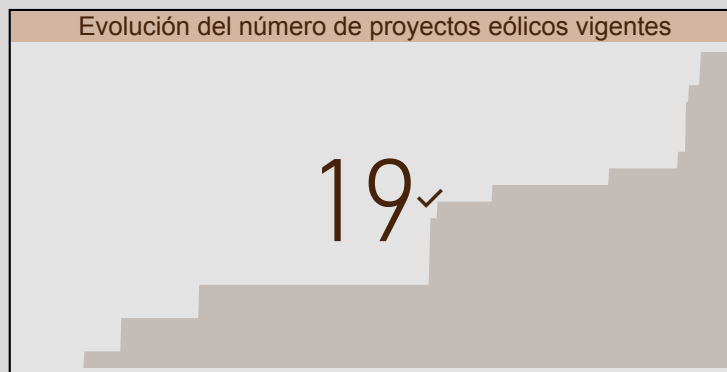
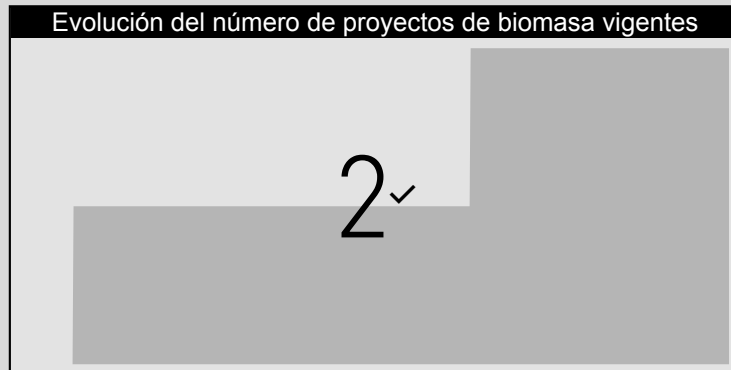
Número de proyectos vigentes



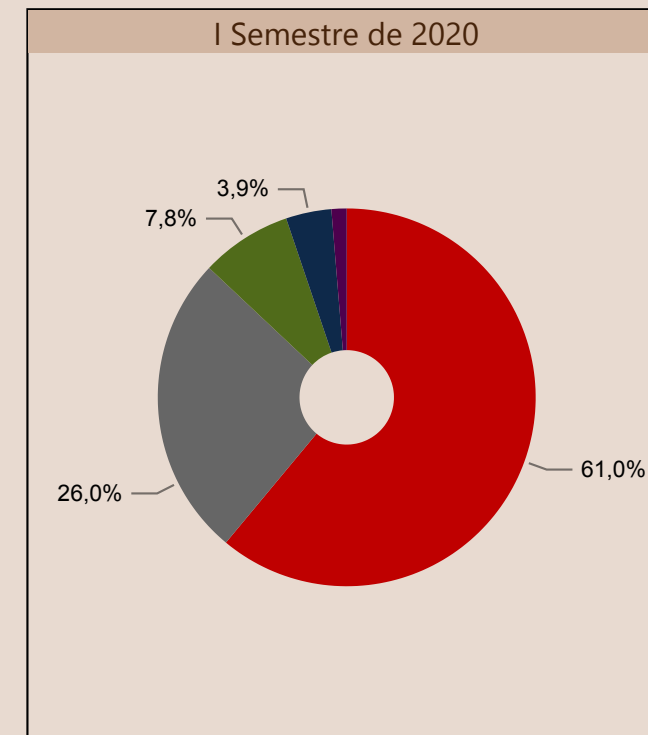
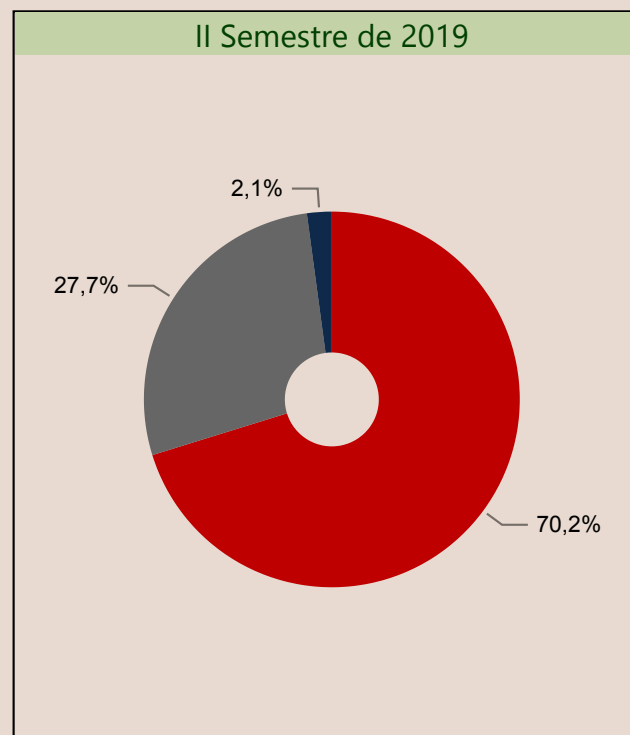
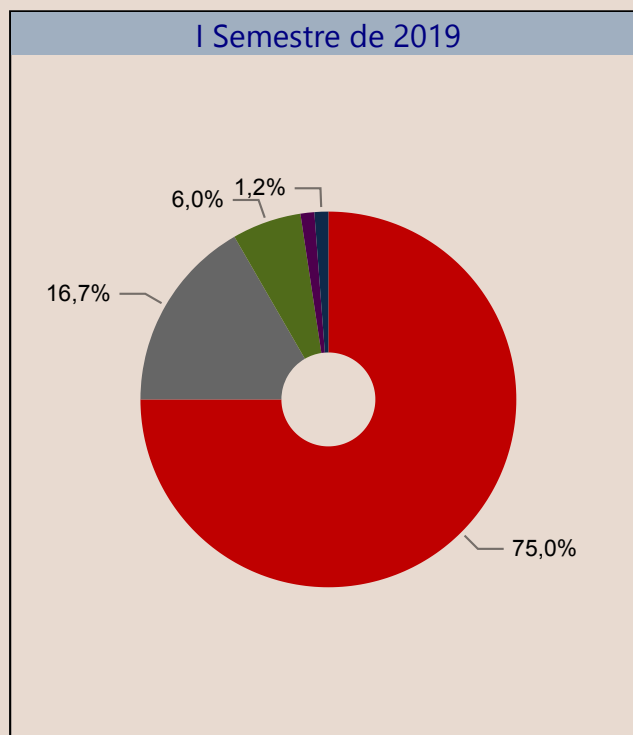
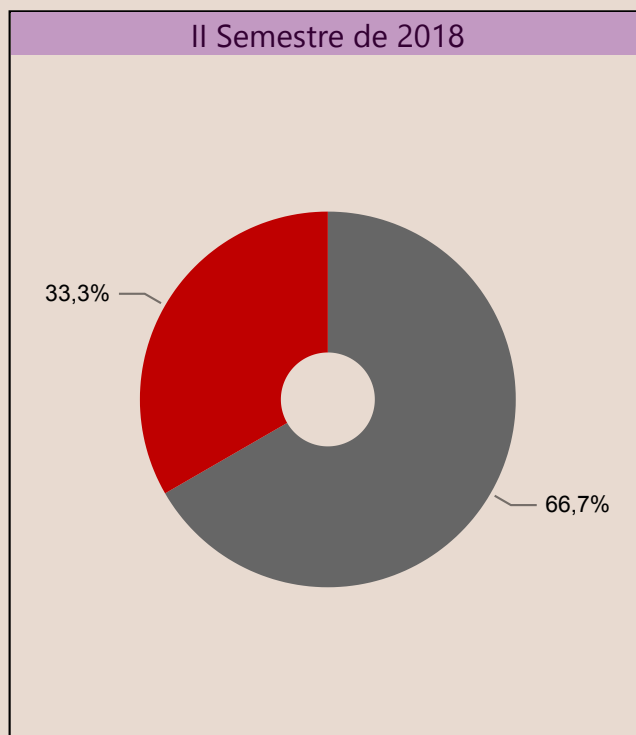
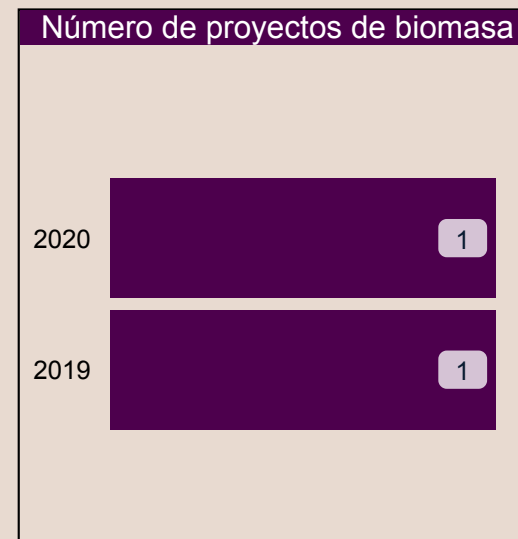
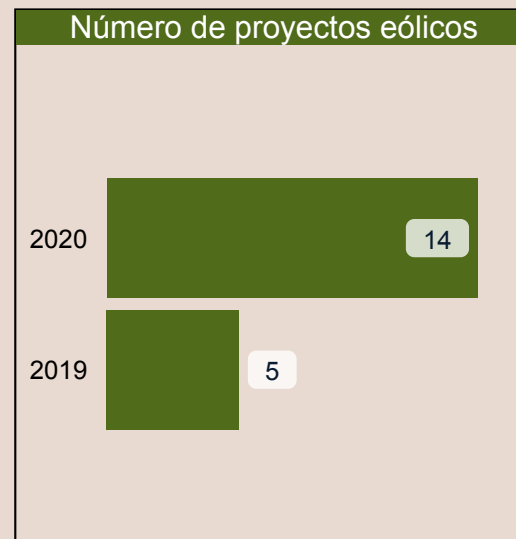
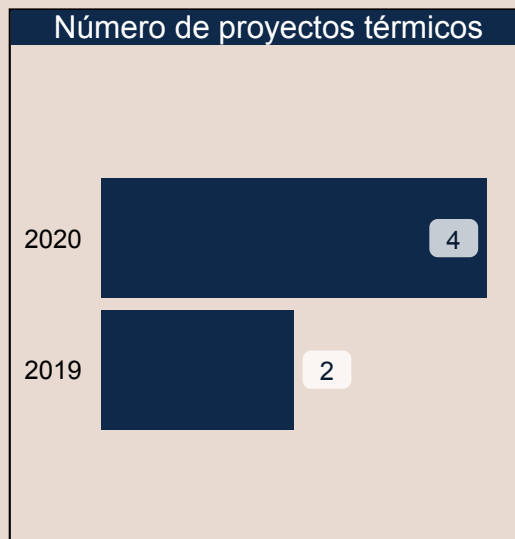
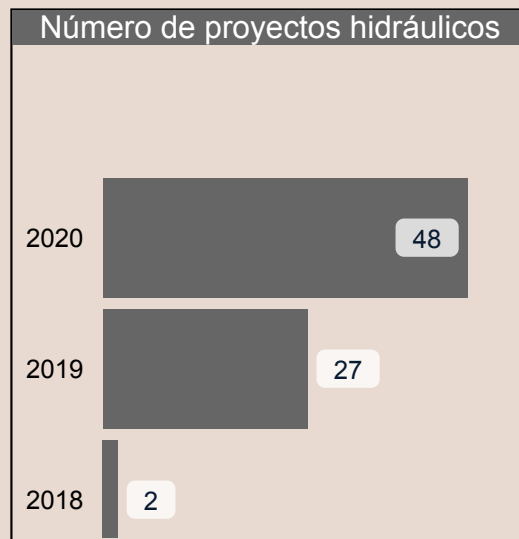
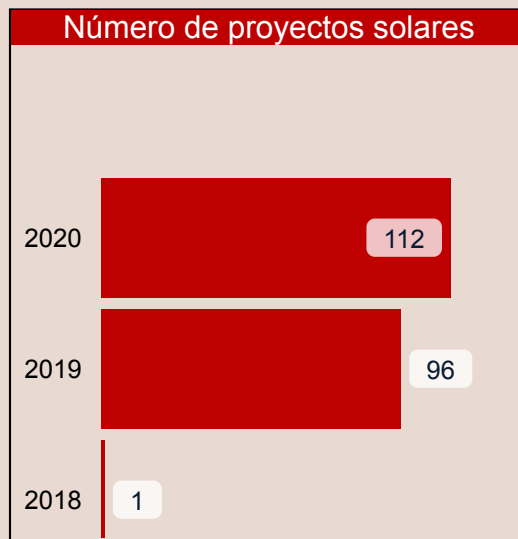
Número de proyectos vigentes



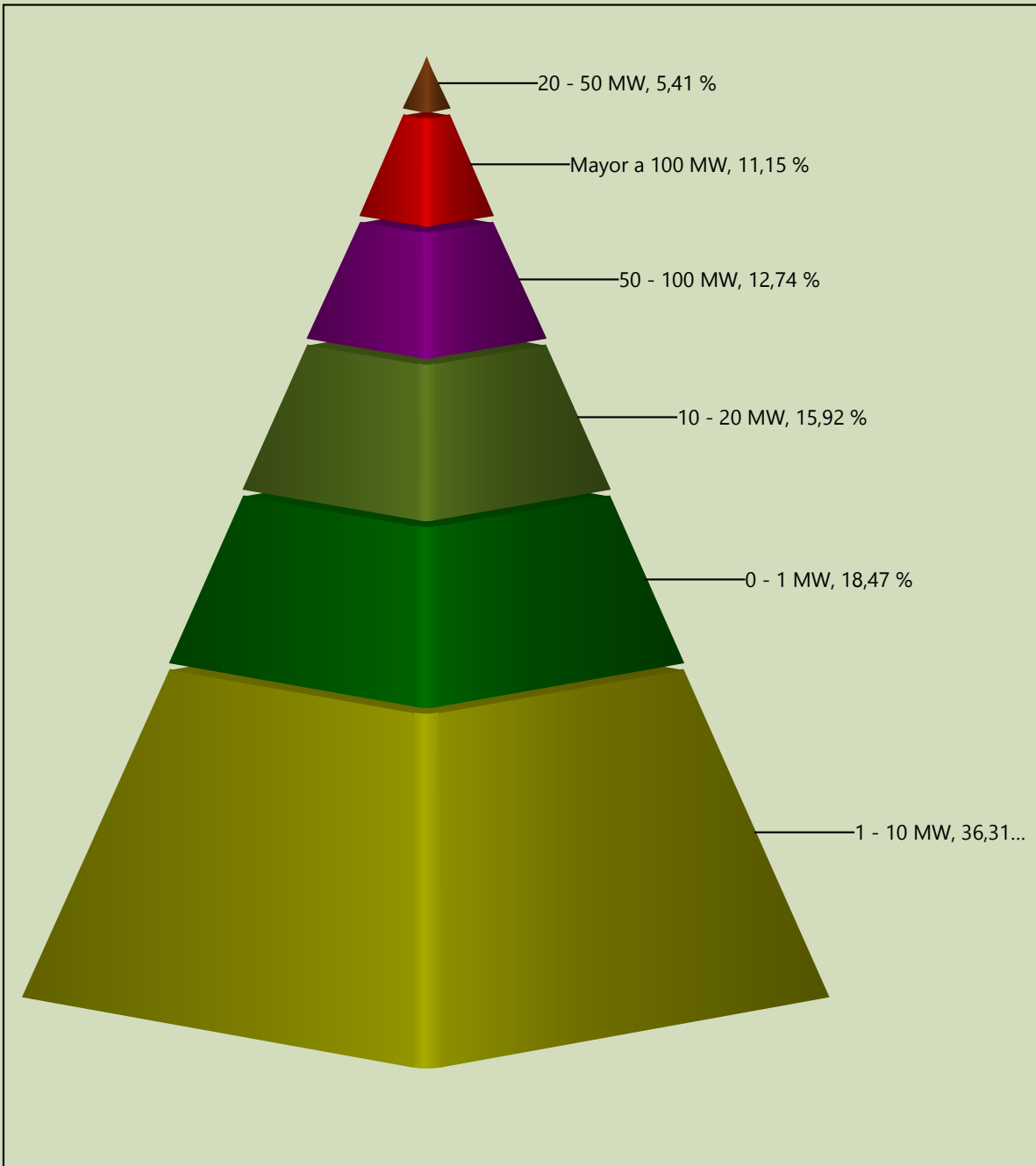
Número de proyectos vigentes por tipo 2017 - 2020



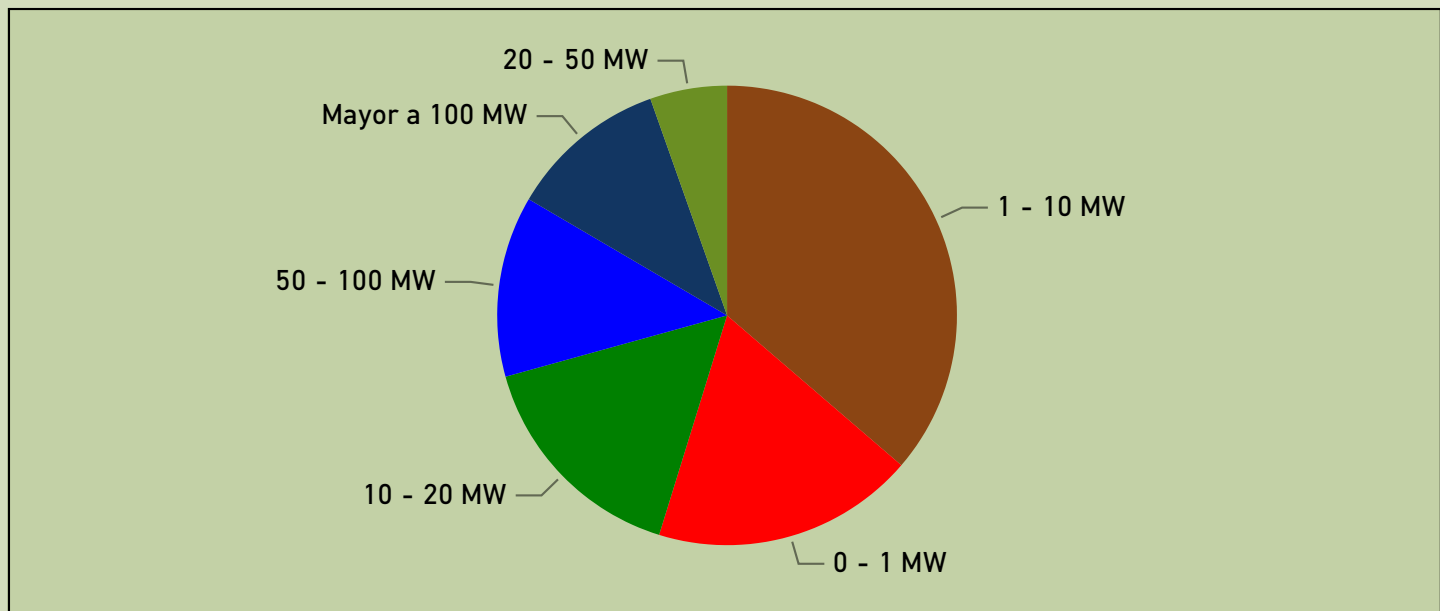
Número de proyectos vigentes



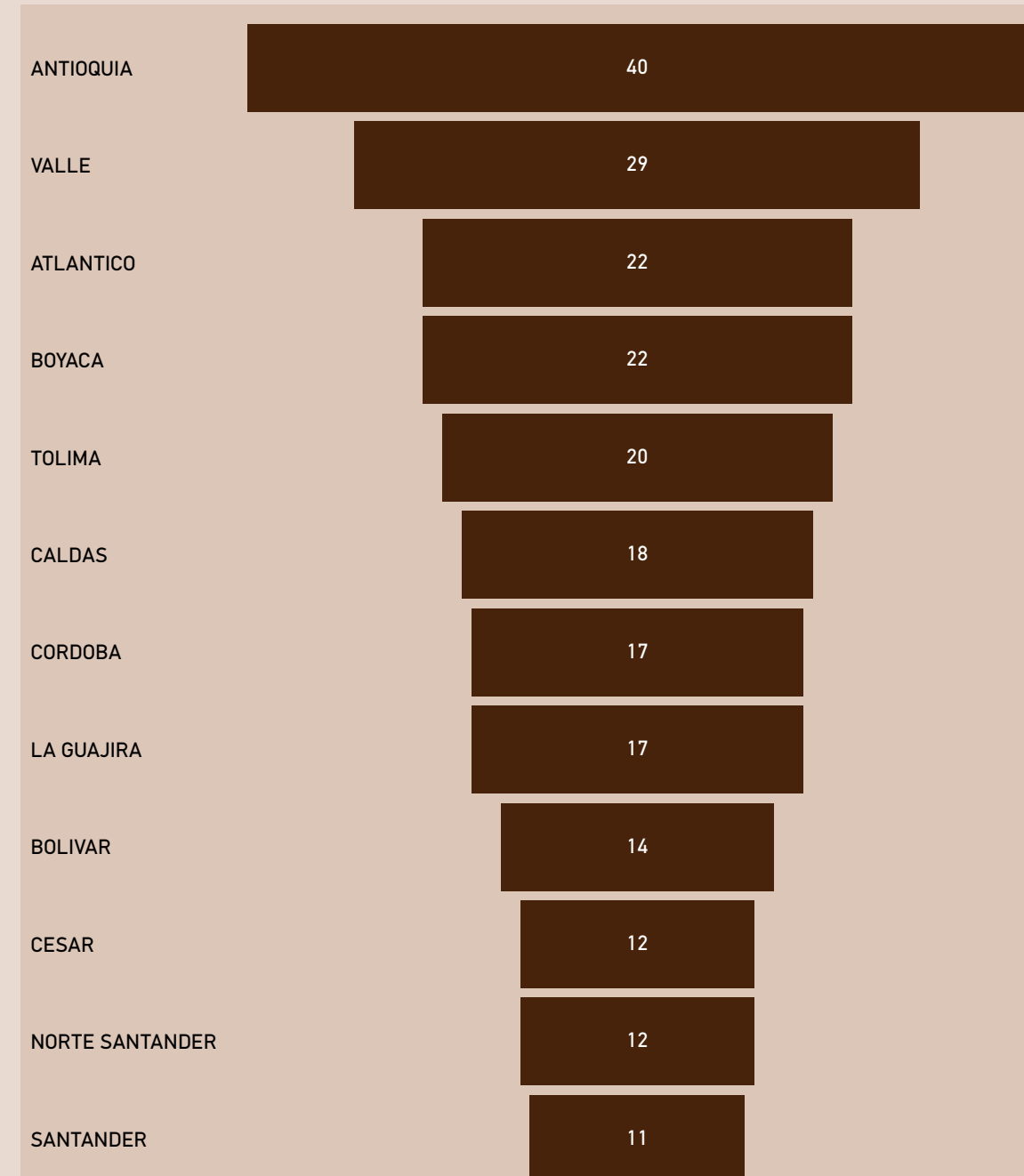
Número de proyectos vigentes por rango de potencia



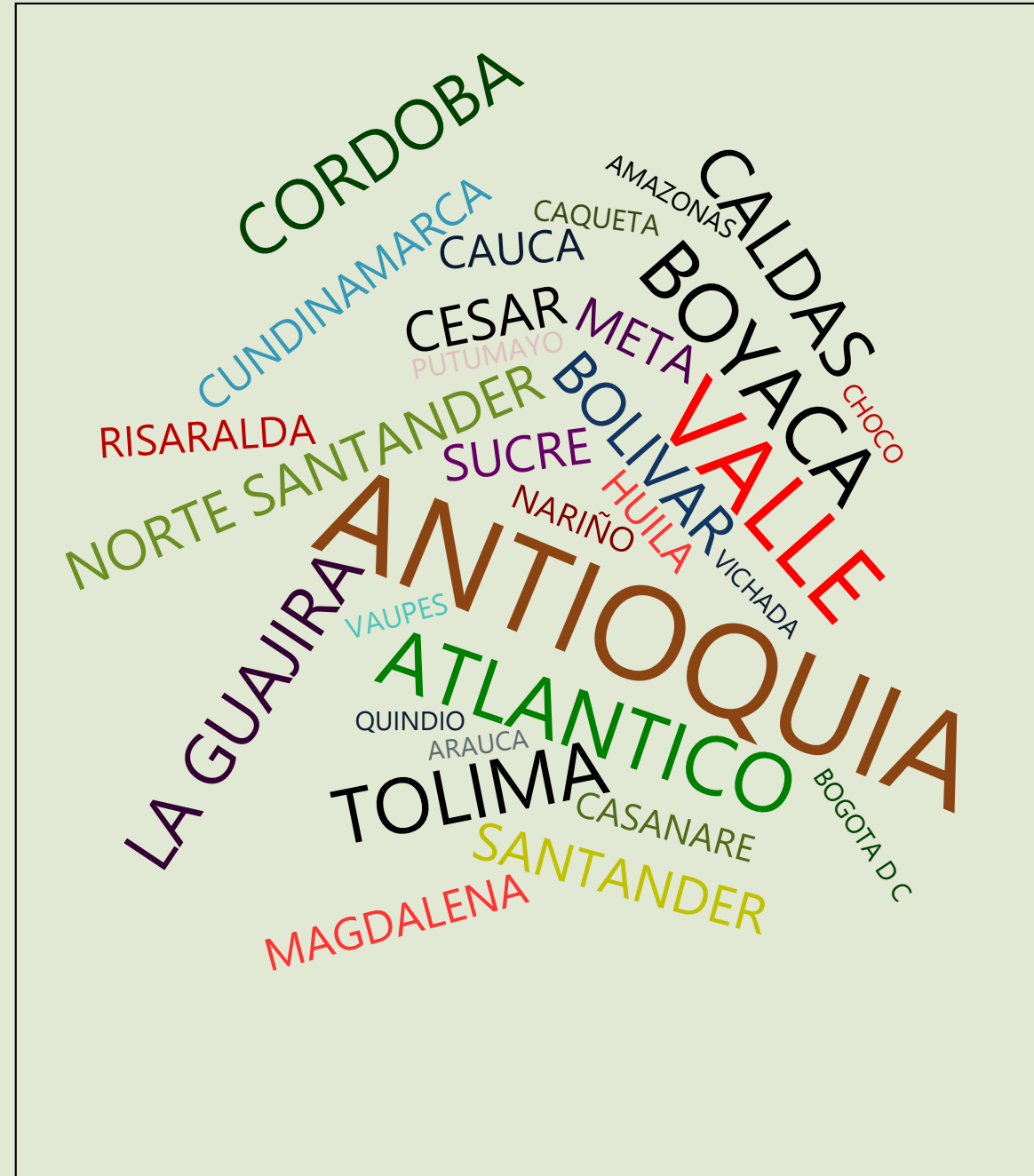
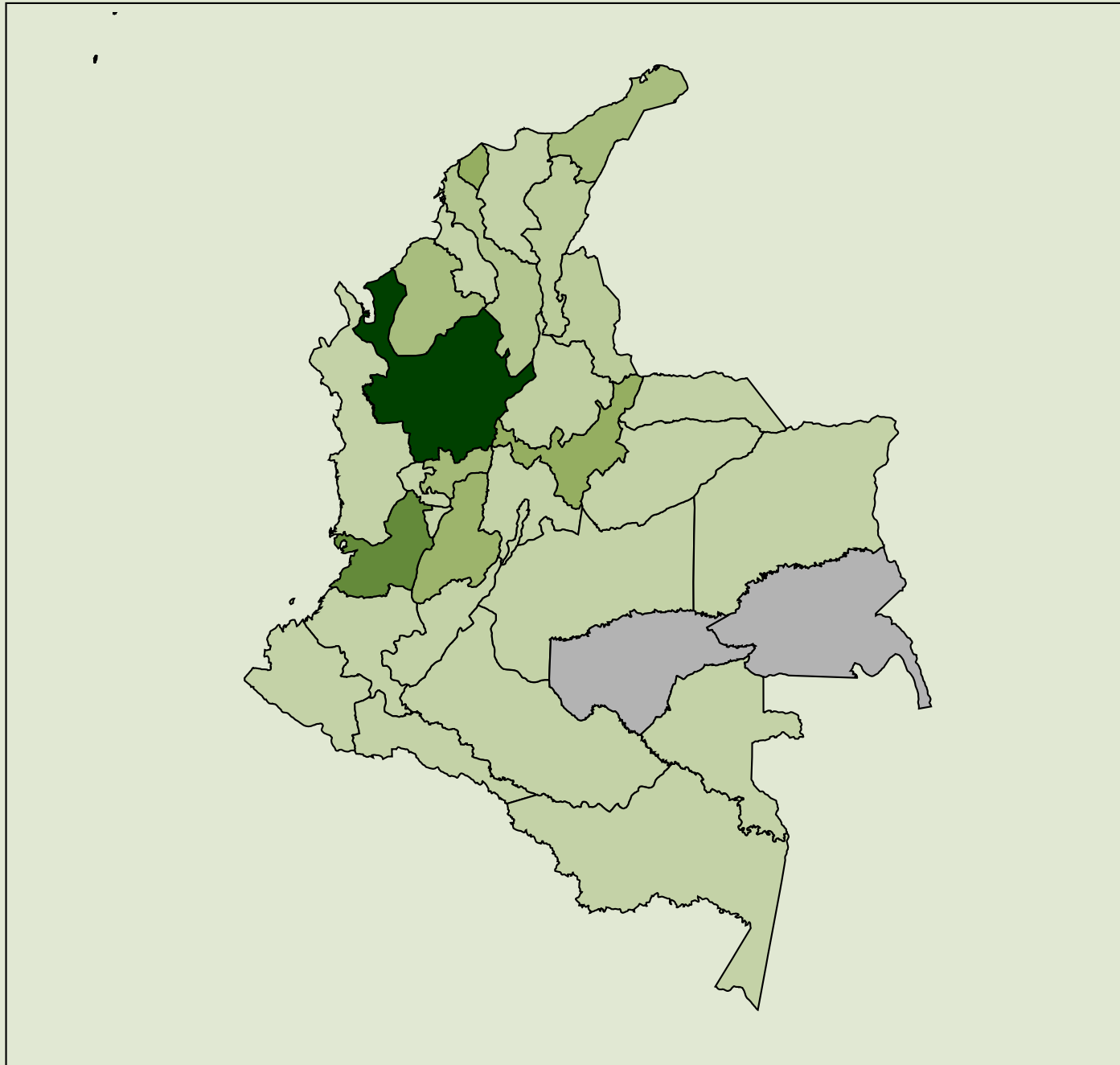
| Rango | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMI... | Total |
|----------------|----------|-----------|------------|------------|----------|------------|
| 0 - 1 MW | 1 | | | 55 | 1 | 57 |
| 1 - 10 MW | | 3 | 42 | 69 | | 114 |
| 10 - 20 MW | | | 19 | 31 | | 50 |
| 20 - 50 MW | 1 | | 6 | 10 | | 17 |
| 50 - 100 MW | | 7 | 4 | 26 | 3 | 40 |
| Mayor a 100 MW | | 9 | 6 | 18 | 2 | 35 |
| Total | 2 | 19 | 77 | 209 | 6 | 313 |



| NC Departamento | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-----------------|----------|-----------|------------|------------|----------|------------|
| ANTIOQUIA | | | 34 | 6 | | 40 |
| VALLE | | | 3 | 25 | 1 | 29 |
| ATLANTICO | | 1 | | 21 | | 22 |
| BOYACA | | 3 | 5 | 14 | | 22 |
| TOLIMA | 1 | | 5 | 14 | | 20 |
| CALDAS | | | 11 | 7 | | 18 |
| CORDOBA | | | | 17 | | 17 |
| LA GUAJIRA | | 13 | | 4 | | 17 |
| BOLIVAR | | 2 | | 12 | | 14 |
| CESAR | | | | 12 | | 12 |
| NORTE SANTANDER | | | 3 | 8 | 1 | 12 |
| SANTANDER | | | | 11 | | 11 |
| META | | | | 10 | | 10 |
| SUCRE | | | | 10 | | 10 |
| CAUCA | | | 5 | 3 | | 8 |
| CUNDINAMARCA | | | 1 | 7 | | 8 |
| MAGDALENA | | | | 4 | 4 | 8 |
| HUILA | | | | 7 | | 7 |
| RISARALDA | | | 4 | 3 | | 7 |
| CASANARE | 1 | | | 4 | | 5 |
| NARIÑO | | | 2 | 2 | | 4 |
| CAQUETA | | | 1 | 1 | | 2 |
| PUTUMAYO | | | | 2 | | 2 |
| VAUPES | | | | 2 | | 2 |
| AMAZONAS | | | | 1 | | 1 |
| ARAUCA | | | 1 | | | 1 |
| BOGOTA D.C. | | | | 1 | | 1 |
| CHOCO | | | 1 | | | 1 |
| QUINDIO | | | 1 | | | 1 |
| VICHADA | | | | 1 | | 1 |
| Total | 2 | 19 | 77 | 209 | 6 | 313 |

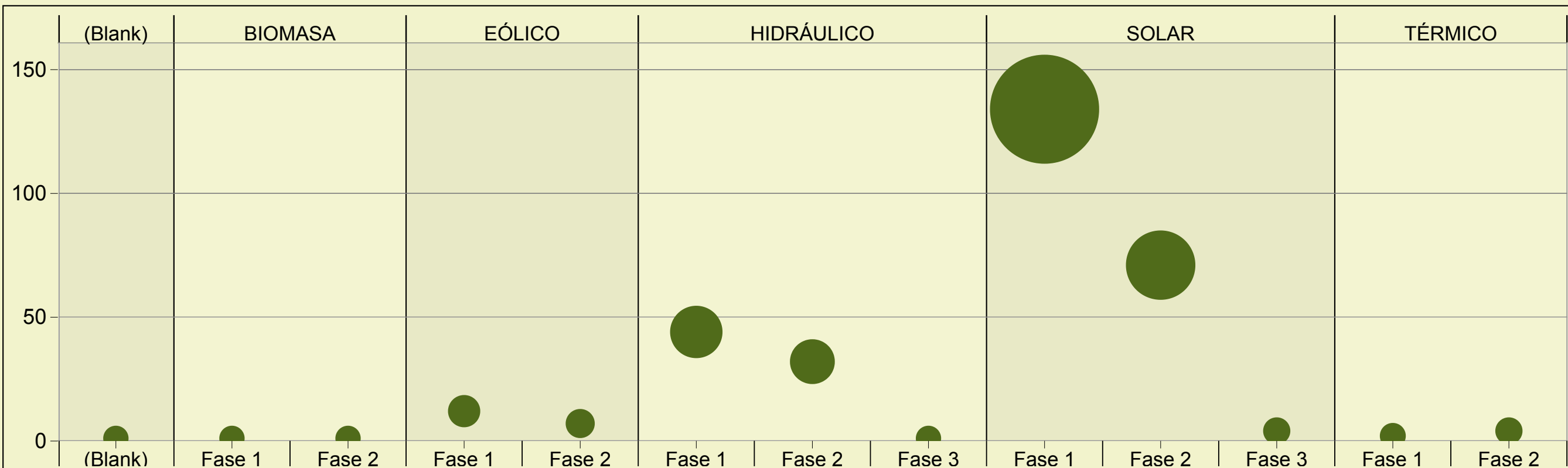
Número de proyectos vigentes por departamento


Proyectos vigentes por departamento



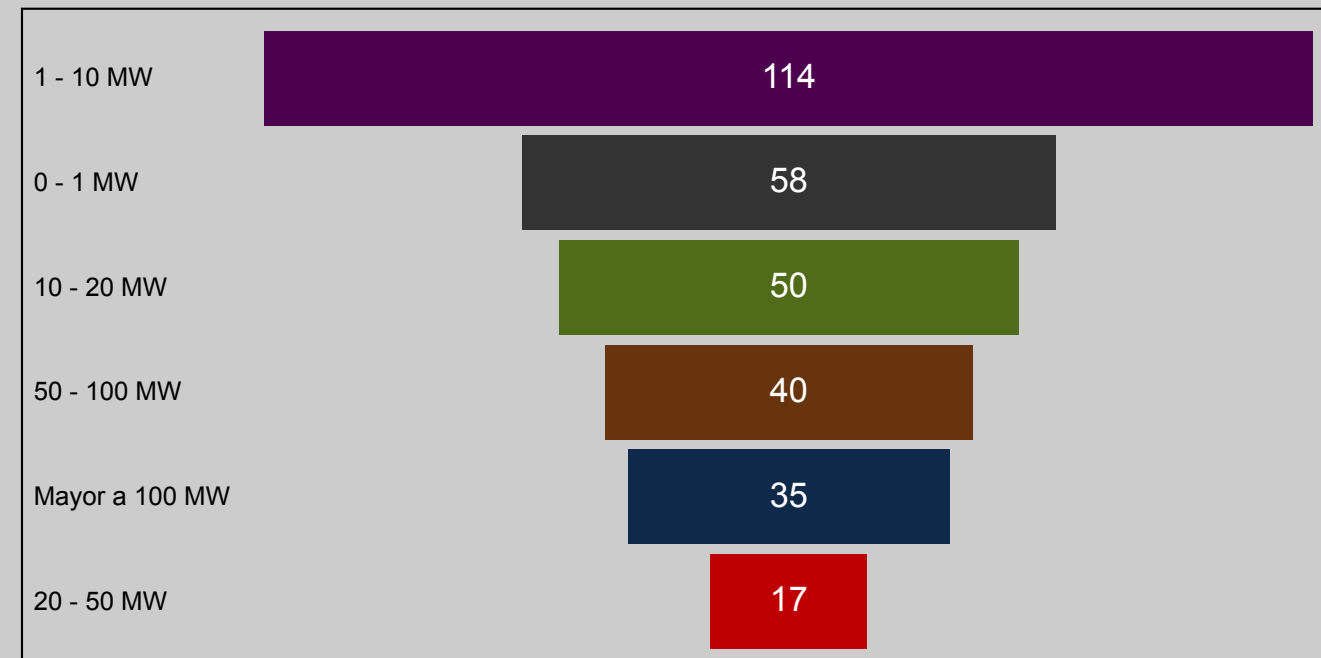
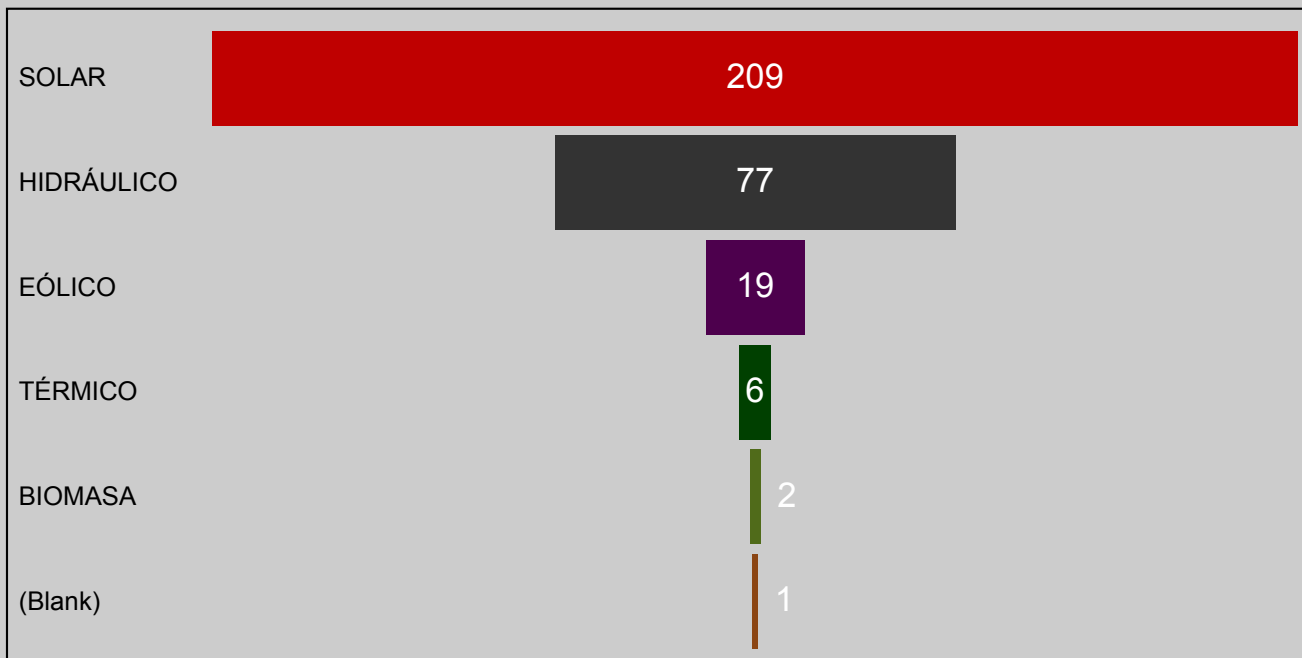
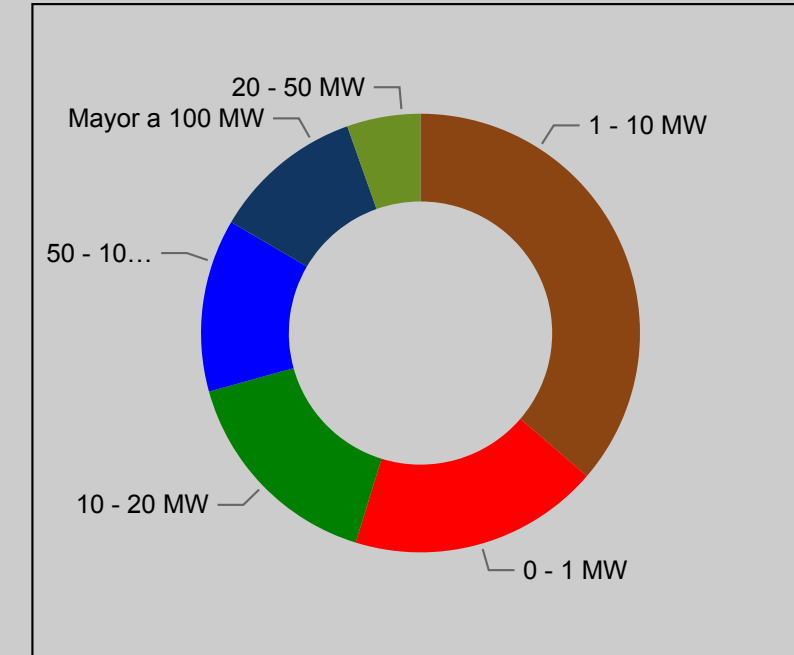
Número de proyectos vigentes según el tipo y el rango de potencia

| Estado | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|----------|-----------|------------|------------|----------|------------|
| Fase 3 | | | 1 | 4 | | 5 |
| Fase 2 | 1 | 7 | 32 | 71 | 4 | 115 |
| Fase 1 | 1 | 12 | 44 | 134 | 2 | 193 |
| Total | 2 | 19 | 77 | 209 | 6 | 313 |



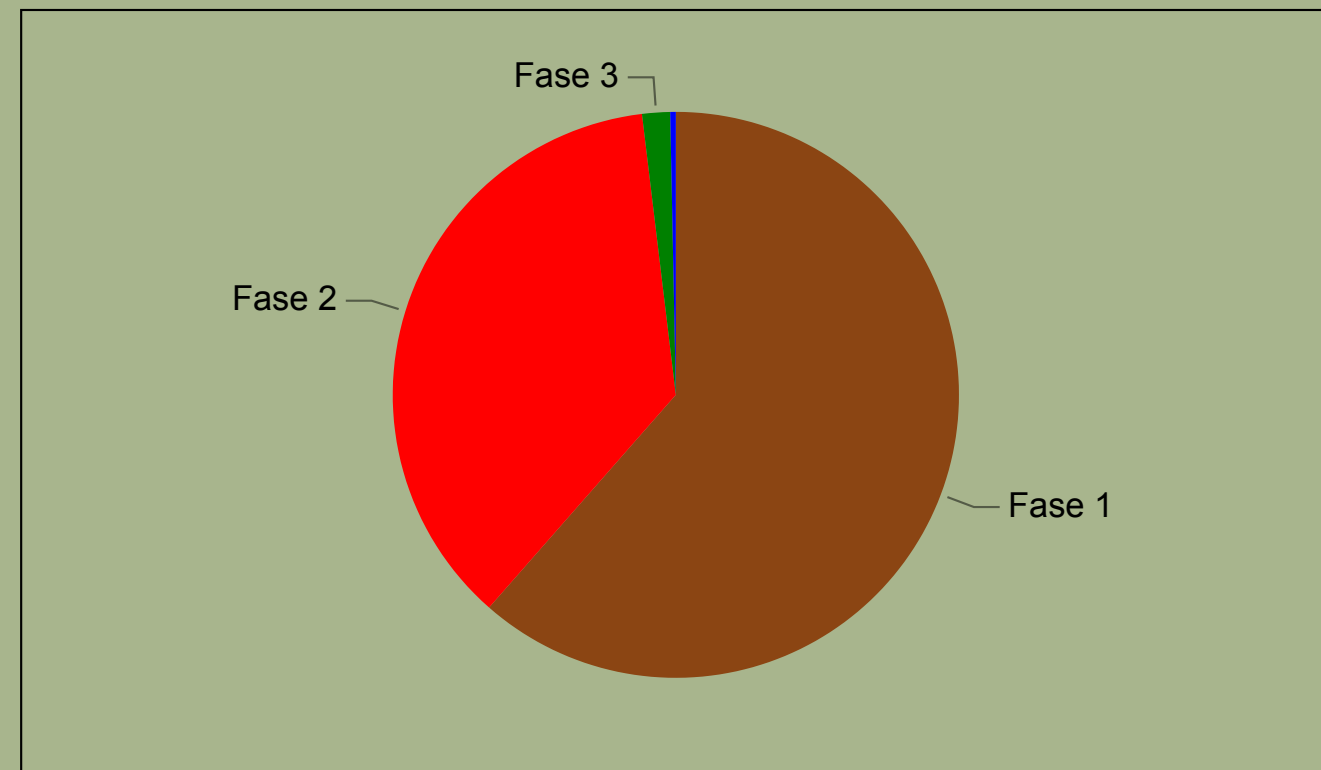
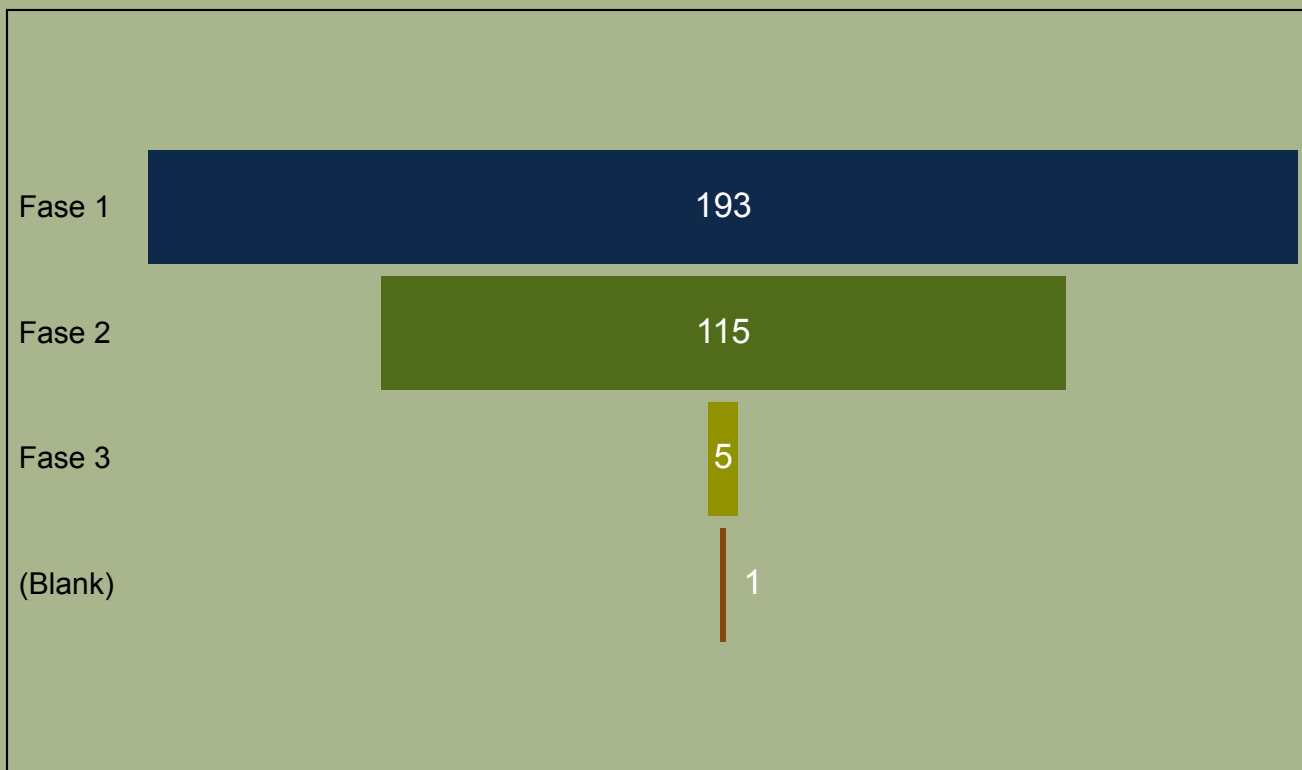
Número de proyectos vigentes según el tipo y el rango de potencia

| Rango | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|----------|-----------|------------|------------|----------|------------|
| 1 - 10 MW | | 3 | 42 | 69 | | 114 |
| 0 - 1 MW | 1 | | | 55 | 1 | 57 |
| 10 - 20 MW | | | 19 | 31 | | 50 |
| 50 - 100 MW | | 7 | 4 | 26 | 3 | 40 |
| Mayor a 100 MW | | 9 | 6 | 18 | 2 | 35 |
| 20 - 50 MW | 1 | | 6 | 10 | | 17 |
| Total | 2 | 19 | 77 | 209 | 6 | 313 |

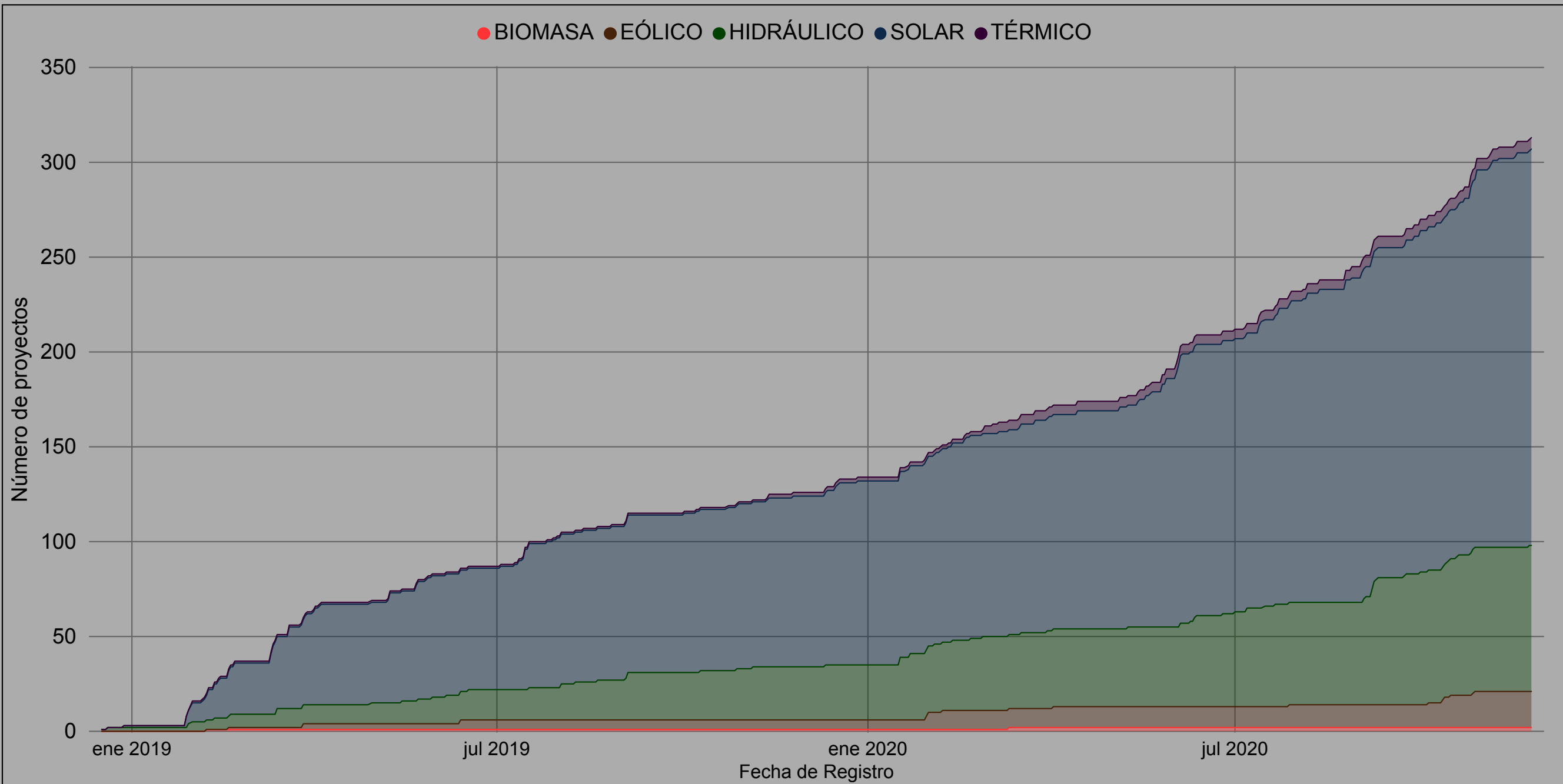


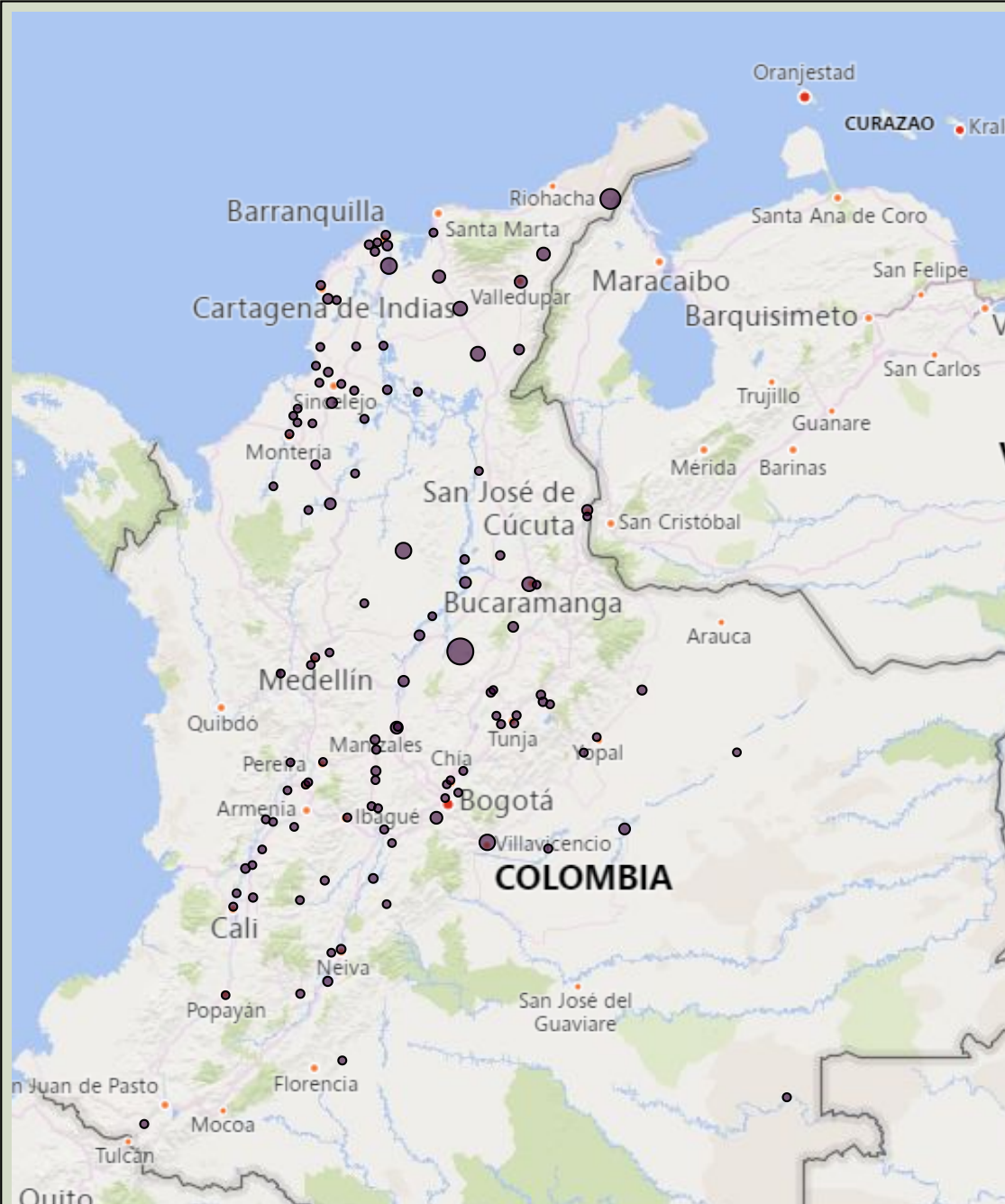
Número de proyectos vigentes según el tipo y el rango de potencia

| Estado | 0 - 1 MW | 1 - 10 MW | 10 - 20 MW | 20 - 50 MW | 50 - 100 MW | Mayor a 100 MW | Total |
|--------------|-----------|------------|------------|------------|-------------|----------------|------------|
| Fase 1 | 56 | 61 | 23 | 12 | 22 | 19 | 193 |
| Fase 2 | 1 | 50 | 26 | 4 | 18 | 16 | 115 |
| Fase 3 | | 3 | 1 | 1 | | | 5 |
| Total | 57 | 114 | 50 | 17 | 40 | 35 | 313 |

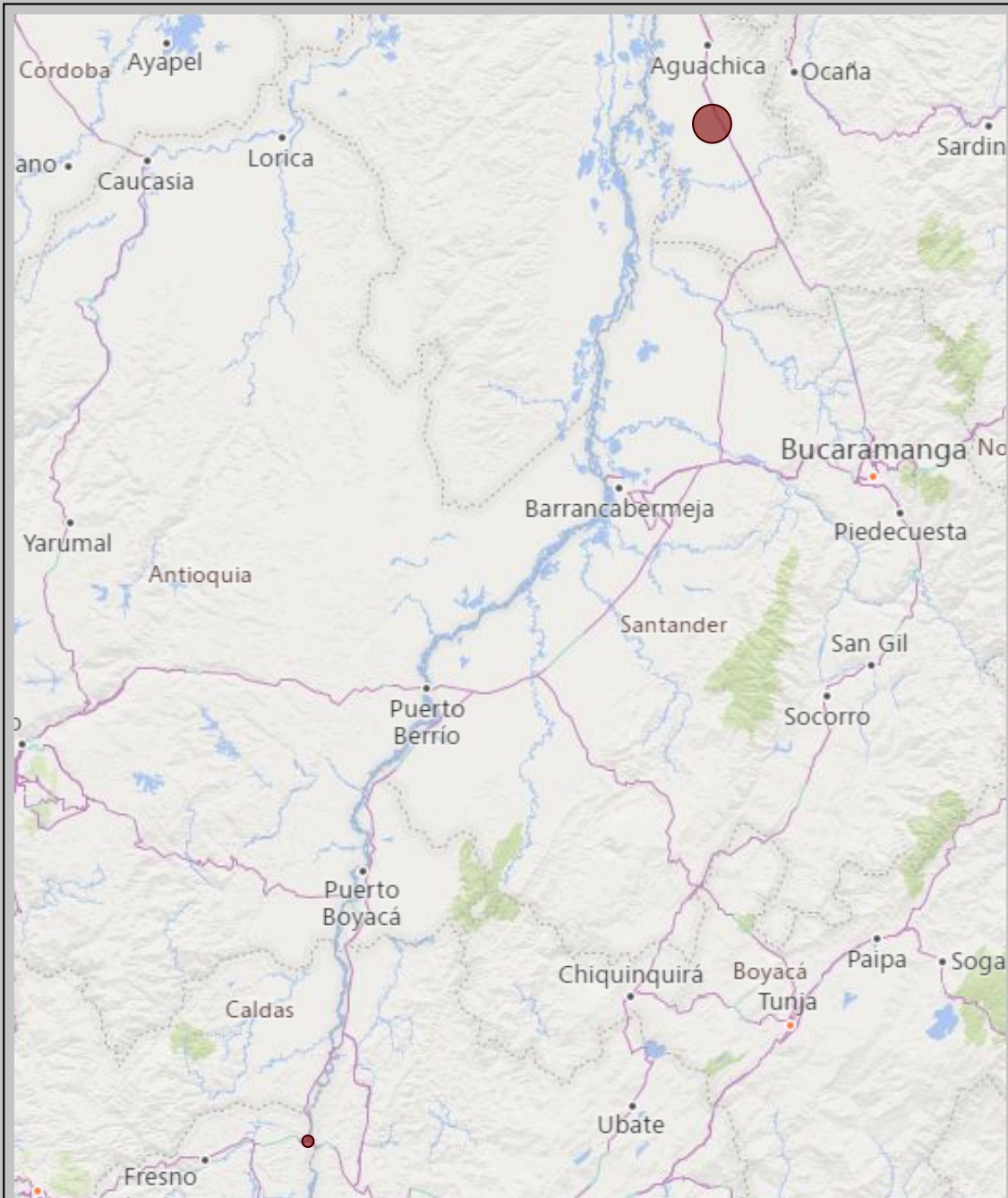


Número acumulado de proyectos vigentes según el tipo



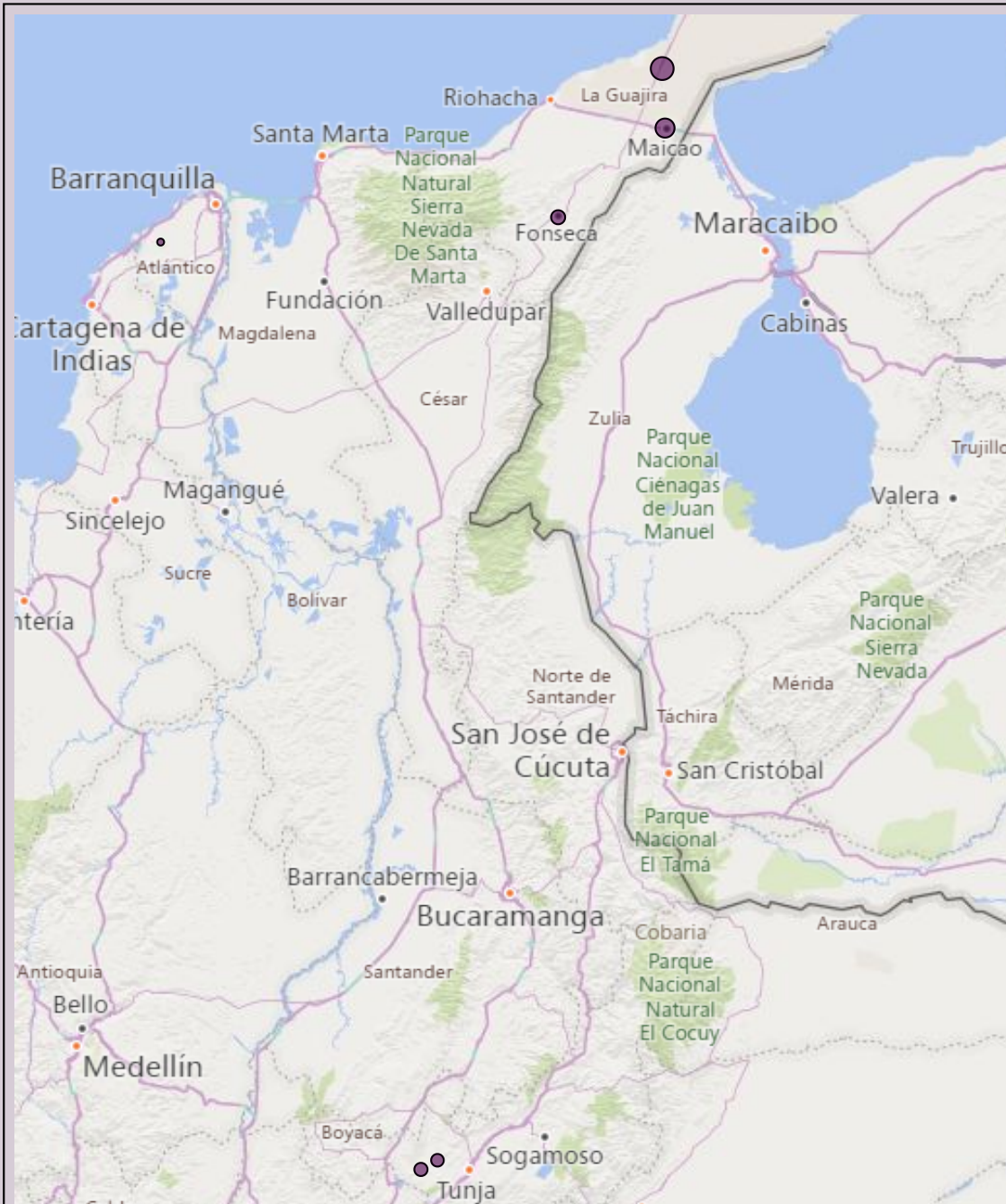

Ubicación de los principales proyectos solares vigentes

| Municipio-Departamento | Capacidad MW | Estado | Entrada Operacion |
|----------------------------------|----------------|--------|-------------------|
| CIMITARRA, SANTANDER | 700,0 | Fase 2 | 01/12/2022 |
| MAICAO, LA GUAJIRA | 600,0 | Fase 2 | 01/10/2024 |
| PONEDERA, ATLANTICO | 400,0 | Fase 2 | 30/05/2023 |
| VILLAVICENCIO, META | 379,3 | Fase 2 | 31/12/2022 |
| GIRON, SANTANDER | 299,7 | Fase 1 | 30/07/2023 |
| EL PASO, CESAR | 240,0 | Fase 2 | 01/01/2022 |
| CIMITARRA, SANTANDER | 200,0 | Fase 1 | 31/12/2024 |
| EL COPEY, CESAR | 200,0 | Fase 2 | 31/12/2024 |
| SOACHA, CUNDINAMARCA | 200,0 | Fase 1 | 01/09/2020 |
| SABANALARGA, ATLANTICO | 199,5 | Fase 2 | 01/01/2022 |
| PUERTO GAITAN, META | 150,0 | Fase 1 | 13/07/2021 |
| MONTELIBANO, CORDOBA | 139,3 | Fase 2 | 15/05/2021 |
| BARRANCABERMEJA, SANTANDER | 125,0 | Fase 2 | 31/12/2021 |
| LA DORADA, CALDAS | 102,0 | Fase 2 | 01/08/2021 |
| EL COPEY, CESAR | 100,0 | Fase 1 | 17/12/2021 |
| FUNDACION, MAGDALENA | 100,0 | Fase 1 | 17/12/2021 |
| FUNDACION, MAGDALENA | 100,0 | Fase 2 | 15/12/2020 |
| PUERTO BERRIO, ANTIOQUIA | 100,0 | Fase 1 | 14/12/2022 |
| SAN CAYETANO, NORTE DE SANTANDER | 100,0 | Fase 1 | 01/03/2023 |
| SAN JUAN DEL CESAR, LA GUAJIRA | 100,0 | Fase 2 | 31/12/2021 |
| CHINU, CORDOBA | 99,9 | Fase 2 | 30/01/2022 |
| CUCUTA, NORTE DE SANTANDER | 99,9 | Fase 1 | 30/07/2024 |
| TURBANA, BOLIVAR | 99,9 | Fase 1 | 01/01/2024 |
| VALLEDUPAR, CESAR | 99,9 | Fase 1 | 30/06/2022 |
| VALLEDUPAR, CESAR | 99,9 | Fase 1 | 01/01/2020 |
| BECERRIL, CESAR | 99,0 | Fase 1 | 01/12/2023 |
| LA DORADA, CALDAS | 99,0 | Fase 1 | 01/12/2023 |
| Total | 7.493,0 | | |



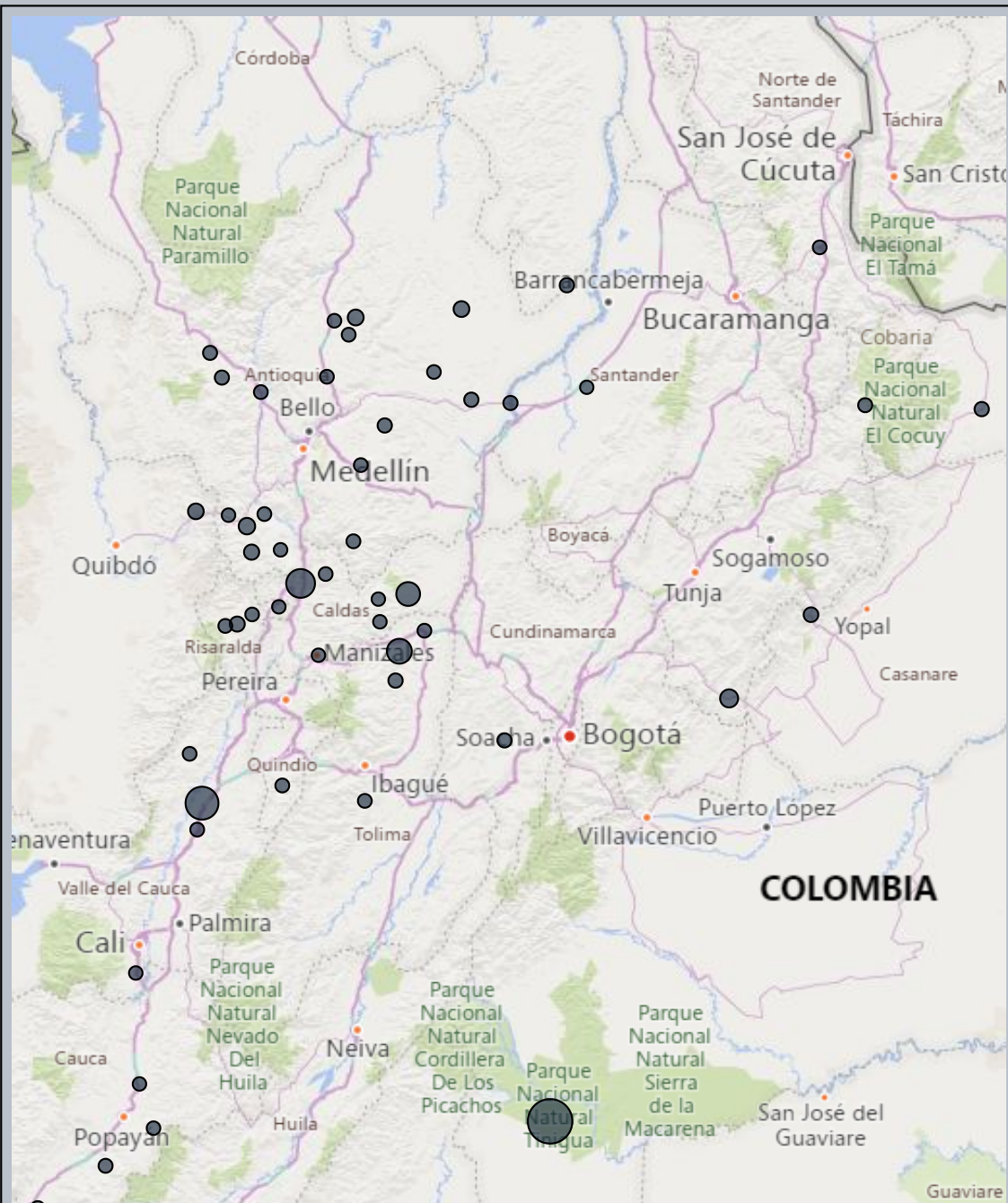
Ubicación de los principales proyectos de biomasa vigentes

| Municipio-Departamento | Capacidad MW | Estado | Entrada Operacion |
|------------------------|--------------|--------|-------------------|
| VILLANUEVA, CASANARE | 25,0 | Fase 2 | 01/12/2021 |
| HONDA, TOLIMA | 0,0 | Fase 1 | 01/10/2019 |
| Total | 25,0 | | |

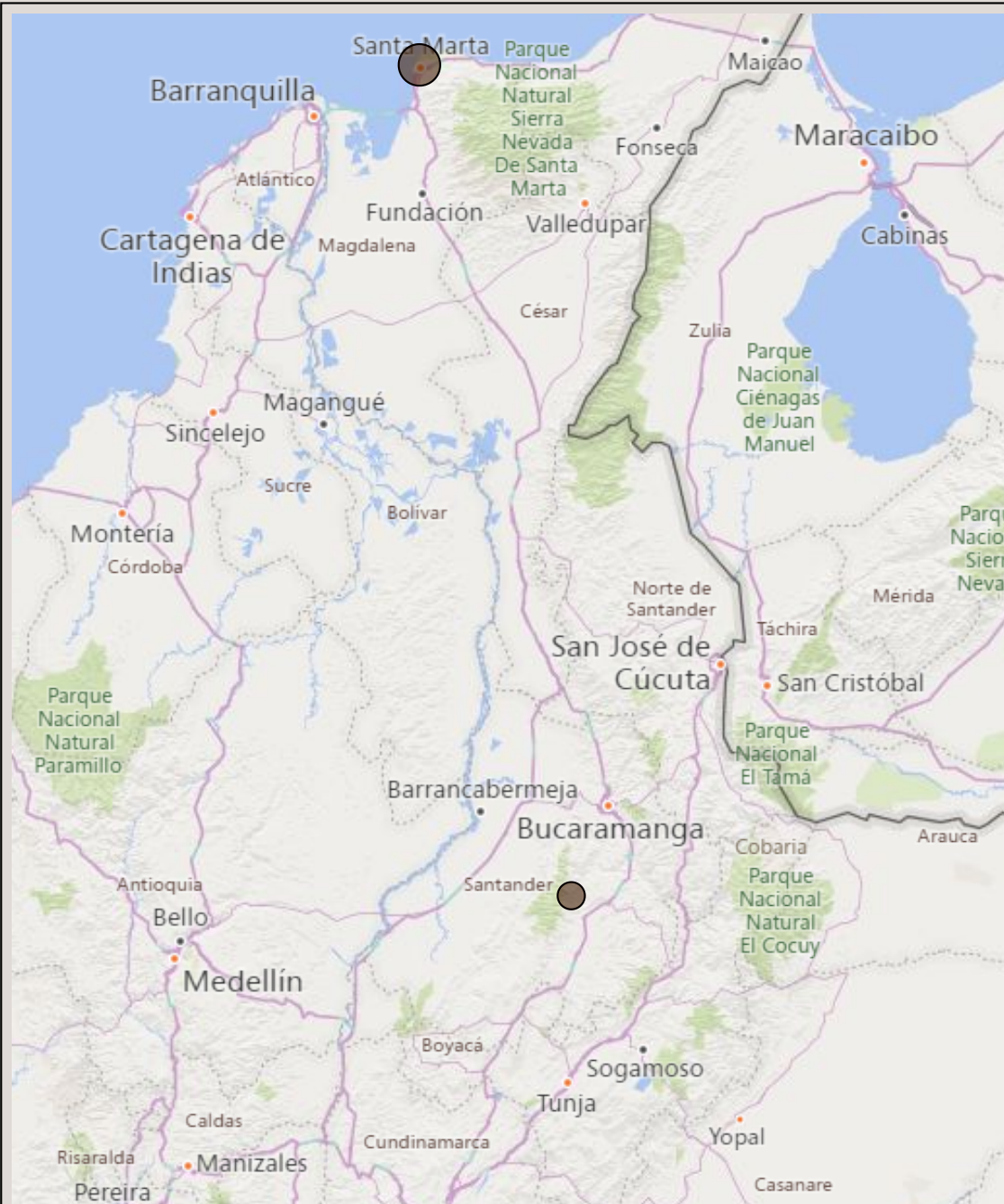


| Municipio-Departamento | Capacidad MW | Estado | Entrada Operacion |
|-------------------------|----------------|--------|-------------------|
| URIBIA, LA GUAJIRA | 648,0 | Fase 2 | 28/02/2023 |
| MAICAO, LA GUAJIRA | 500,0 | Fase 1 | 31/12/2023 |
| URIBIA, LA GUAJIRA | 500,0 | Fase 1 | 31/12/2024 |
| URIBIA, LA GUAJIRA | 378,0 | Fase 2 | 01/12/2023 |
| MAICAO, LA GUAJIRA | 325,0 | Fase 1 | 31/12/2022 |
| SANTA CATALINA, BOLIVAR | 200,0 | Fase 1 | 31/12/2025 |
| SACHICA, BOYACA | 169,0 | Fase 1 | 01/06/2024 |
| FONSECA, LA GUAJIRA | 103,2 | Fase 2 | 31/07/2022 |
| RAQUIRA, BOYACA | 92,0 | Fase 1 | 01/06/2024 |
| SANTA CATALINA, BOLIVAR | 60,0 | Fase 1 | 01/12/2021 |
| MAICAO, LA GUAJIRA | 19,8 | Fase 1 | 01/01/2024 |
| PIOJO, ATLANTICO | 9,9 | Fase 1 | 01/12/2021 |
| Total | 3.004,9 | | |

Ubicación de los principales proyectos eólicos vigentes

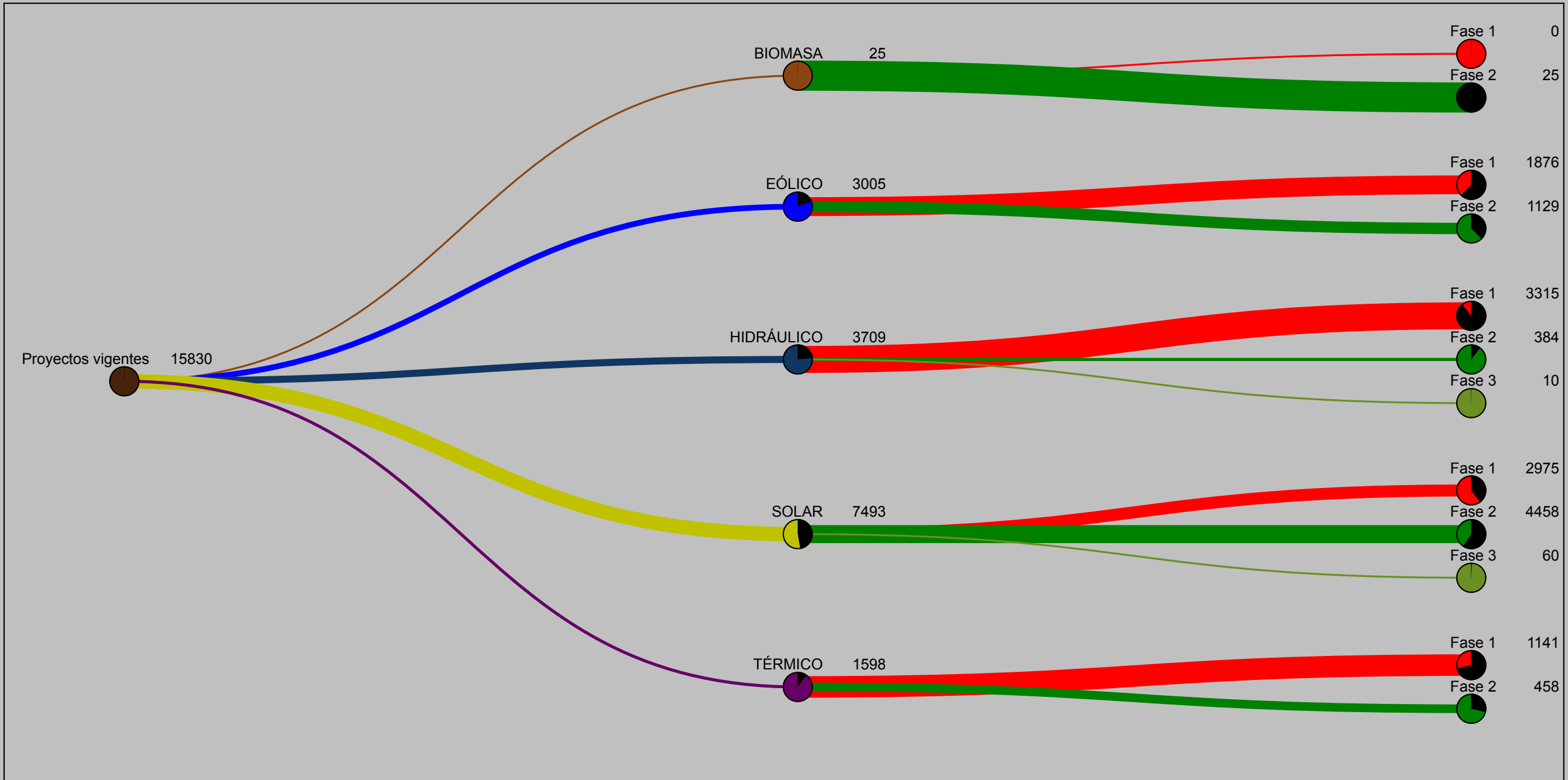

Ubicación de los principales proyectos hidráulicos vigentes

| Municipio-Departamento | Capacidad MW | Estado | Entrada Operacion |
|----------------------------|----------------|--------|-------------------|
| ARGELIA, CAUCA | 800,0 | Fase 1 | 20/08/2026 |
| PUERTO RICO, CAQUETA | 648,5 | Fase 1 | 30/06/2025 |
| SAMANA, CALDAS | 460,0 | Fase 1 | 01/07/2029 |
| MARMATO, CALDAS | 320,0 | Fase 1 | 01/01/2029 |
| SAN LUIS, ANTIOQUIA | 240,0 | Fase 1 | 01/01/2028 |
| SAMANA, CALDAS | 183,0 | Fase 1 | 01/01/2028 |
| SAN LUIS DE GACENO, BOYACA | 98,0 | Fase 1 | 15/09/2024 |
| LA UNION, NARIÑO | 70,9 | Fase 1 | 10/06/2024 |
| HISPANIA, ANTIOQUIA | 65,0 | Fase 1 | 01/10/2024 |
| CAMPAMENTO, ANTIOQUIA | 52,0 | Fase 1 | 28/02/2024 |
| REMEDIOS, ANTIOQUIA | 50,0 | Fase 2 | 01/01/2027 |
| EL CARMEN DE ATRATO, CHOCO | 48,3 | Fase 1 | 30/06/2024 |
| TAMESIS, ANTIOQUIA | 41,0 | Fase 2 | 01/12/2022 |
| ANDES, ANTIOQUIA | 38,8 | Fase 2 | 01/06/2025 |
| PAJARITO, BOYACA | 33,8 | Fase 1 | 01/06/2022 |
| ROVIRA, TOLIMA | 30,0 | Fase 1 | 16/12/2024 |
| PAJARITO, BOYACA | 27,3 | Fase 1 | 01/06/2023 |
| PAJARITO, BOYACA | 20,0 | Fase 2 | 31/05/2024 |
| TAME, ARAUCA | 20,0 | Fase 1 | 01/09/2023 |
| BETULIA, ANTIOQUIA | 19,9 | Fase 2 | 01/12/2023 |
| FRONTINO, ANTIOQUIA | 19,9 | Fase 2 | 01/12/2023 |
| LIBANO, TOLIMA | 19,9 | Fase 1 | 01/01/2023 |
| ALEJANDRIA, ANTIOQUIA | 19,8 | Fase 2 | 15/06/2023 |
| TOLEDO, NORTE DE SANTANDER | 19,8 | Fase 1 | 20/06/2025 |
| EL TAMBO, CAUCA | 19,1 | Fase 1 | 10/12/2023 |
| EL COLEGIO, CUNDINAMARCA | 17,6 | Fase 1 | 20/06/2025 |
| PUERTO BERRIO, ANTIOQUIA | 17,5 | Fase 2 | 01/03/2024 |
| Total | 3.708,9 | | |

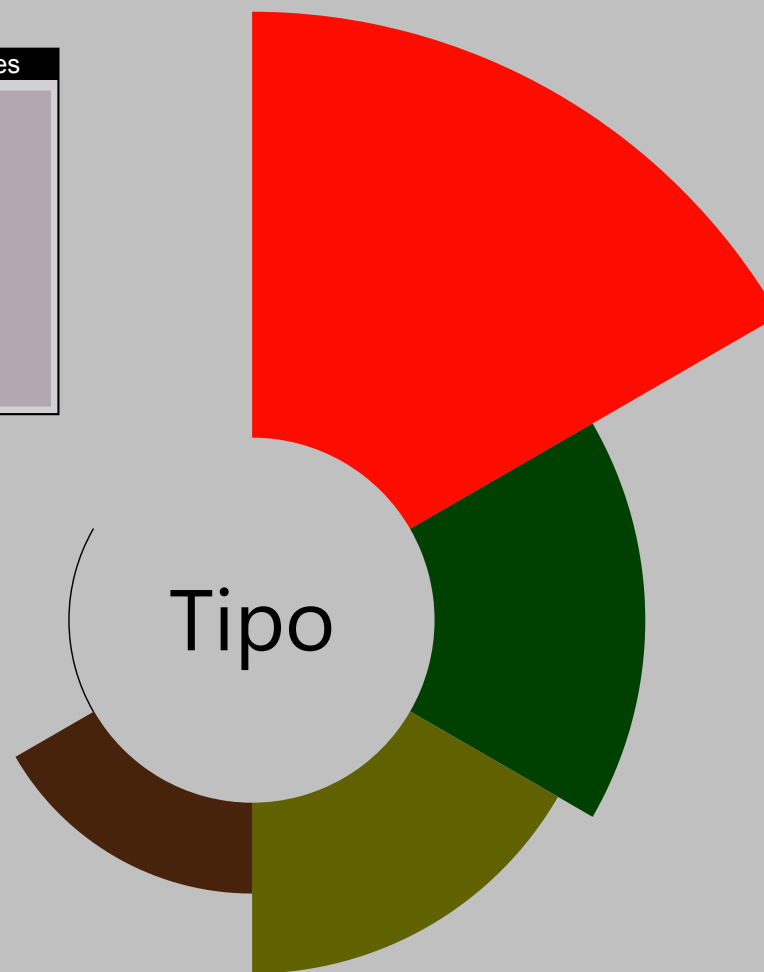
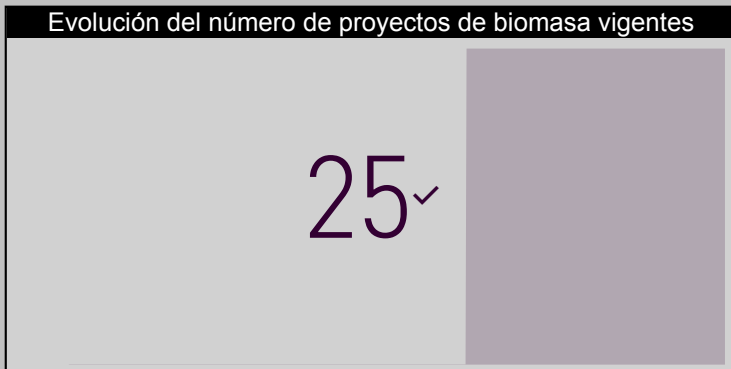

Ubicación de los principales proyectos térmicos vigentes

| Municipio-Departamento | Capacidad MW | Estado | Entrada Operacion |
|----------------------------------|----------------|--------|-------------------|
| SANTA MARTA, MAGDALENA | 1.140,0 | Fase 1 | 01/02/2024 |
| SANTA MARTA, MAGDALENA | 277,6 | Fase 2 | 01/02/2022 |
| SAN CAYETANO, NORTE DE SANTANDER | 180,0 | Fase 2 | 12/12/2024 |
| ANDALUCIA, VALLE DEL CAUCA | 0,5 | Fase 1 | 01/12/2019 |
| Total | 1.598,1 | | |

Capacidad de proyectos vigentes MW

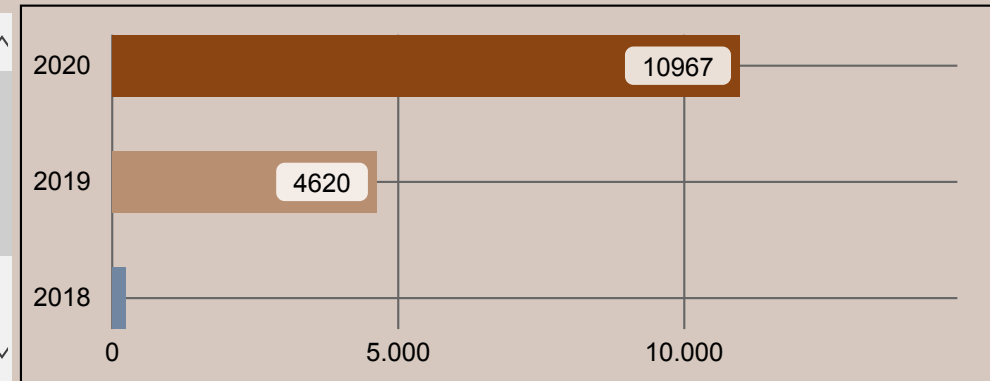


Potencia de proyectos vigentes por tipo MW 2018 - 2020

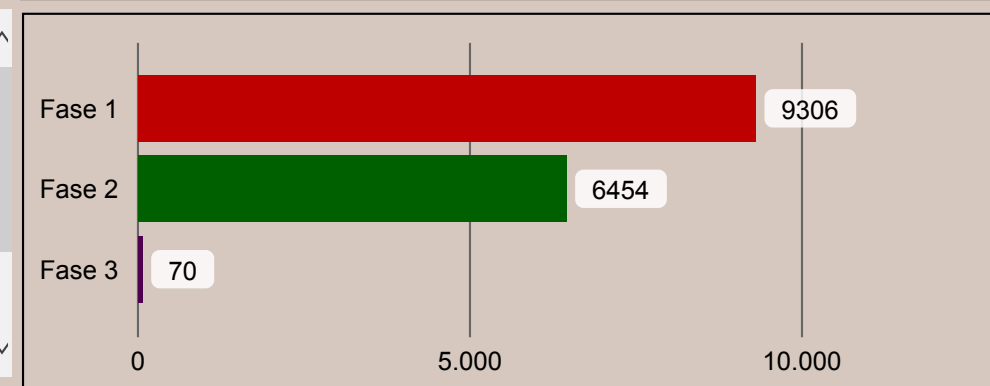


Capacidad de los proyectos vigentes

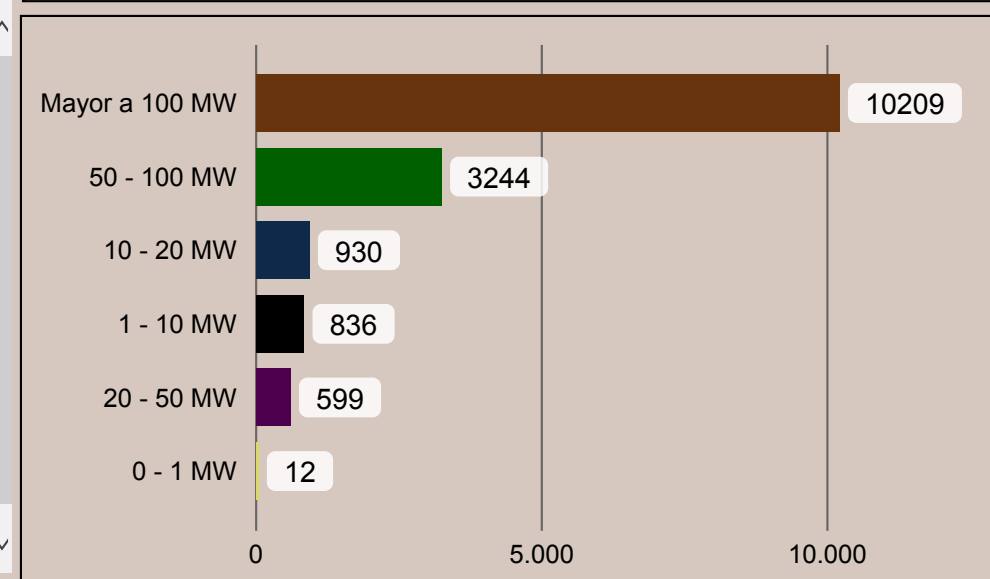
| Year | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|----------|-----------|--------------|--------------|--------------|---------------|
| 2018 | 0 | 0 | 243 | 0 | 0 | 243 |
| 2019 | 0 | 560 | 1.571 | 1.348 | 1.141 | 4.620 |
| Total | 0 | 25 | 3.005 | 3.709 | 1.598 | 15.830 |



| Estado | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|--------------|----------|-----------|--------------|--------------|--------------|---------------|
| Fase 1 | 0 | 1.876 | 3.315 | 2.975 | 1.141 | 9.306 |
| Fase 2 | 25 | 1.129 | 384 | 4.458 | 458 | 6.454 |
| Total | 0 | 25 | 3.005 | 3.709 | 1.598 | 15.830 |



| Rango | BIOMASA | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|----------------|----------|-----------|--------------|--------------|--------------|---------------|
| 0 - 1 MW | 0 | 0 | 0 | 11 | 1 | 12 |
| 1 - 10 MW | 0 | 30 | 253 | 554 | 0 | 836 |
| 10 - 20 MW | 0 | 0 | 321 | 610 | 0 | 930 |
| 20 - 50 MW | 25 | 0 | 219 | 355 | 0 | 599 |
| 50 - 100 MW | 0 | 594 | 265 | 2.108 | 278 | 3.244 |
| Mayor a 100 MW | 0 | 2.381 | 2.652 | 3.856 | 1.320 | 10.209 |
| Total | 0 | 25 | 3.005 | 3.709 | 1.598 | 15.830 |

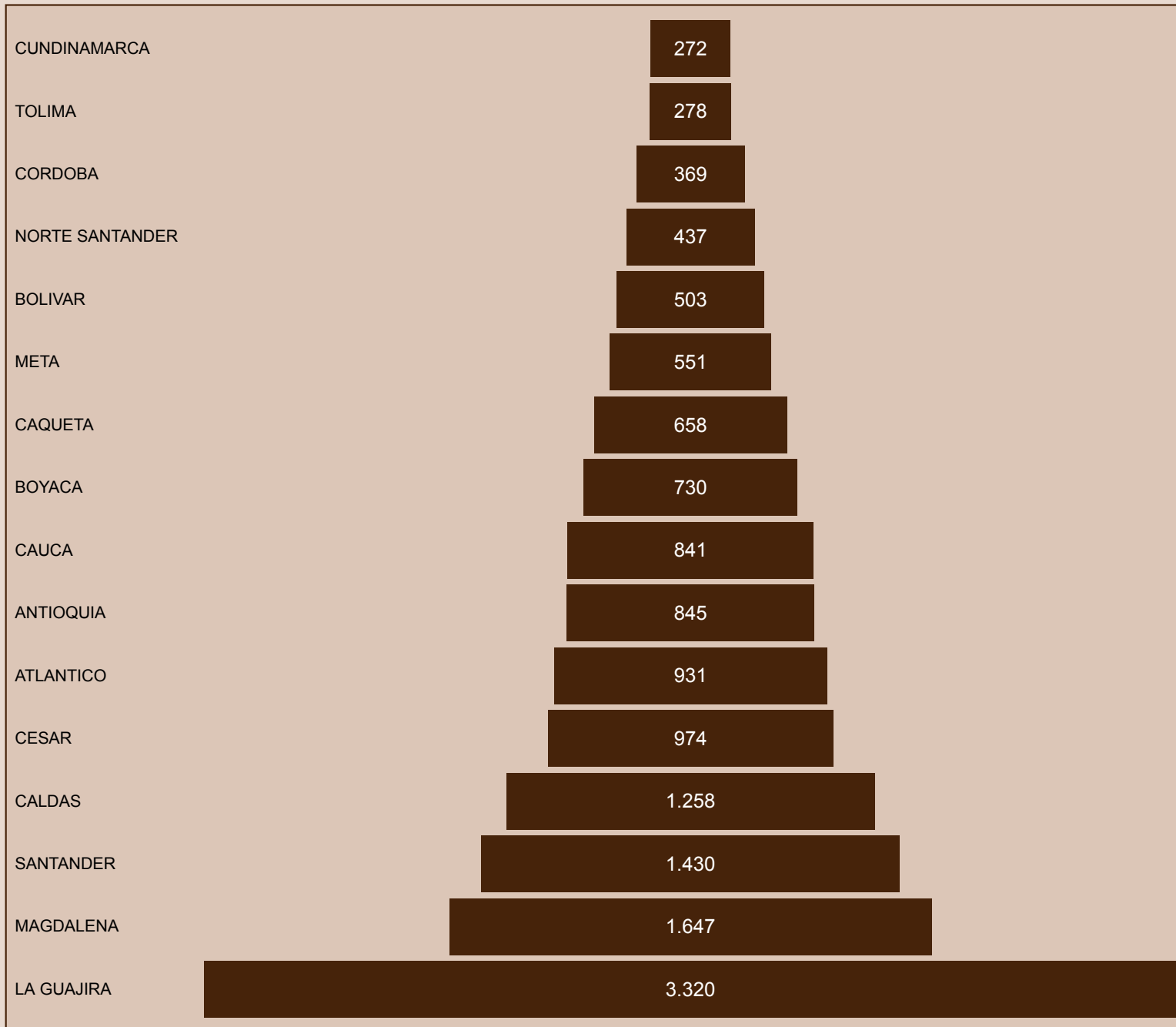
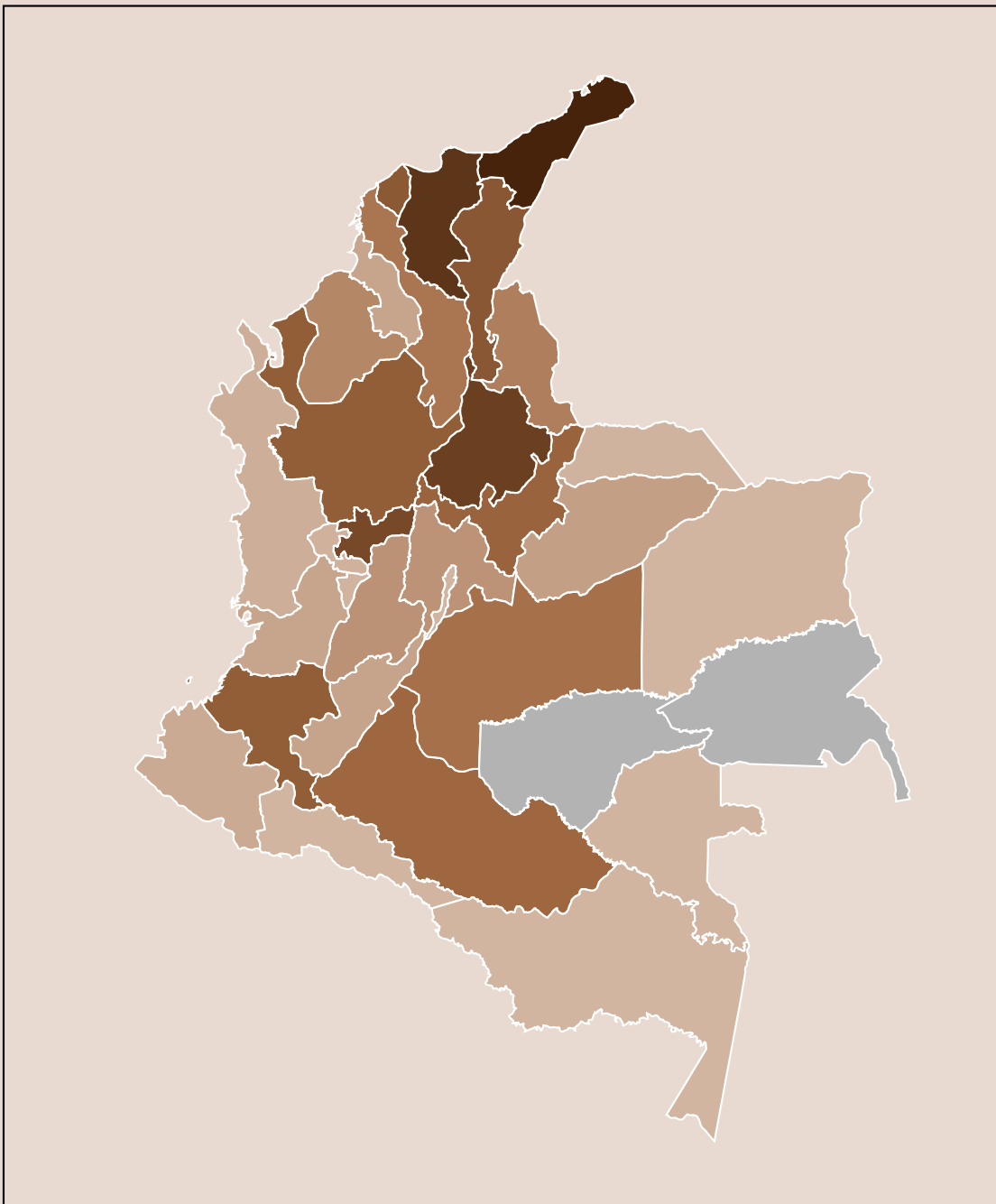


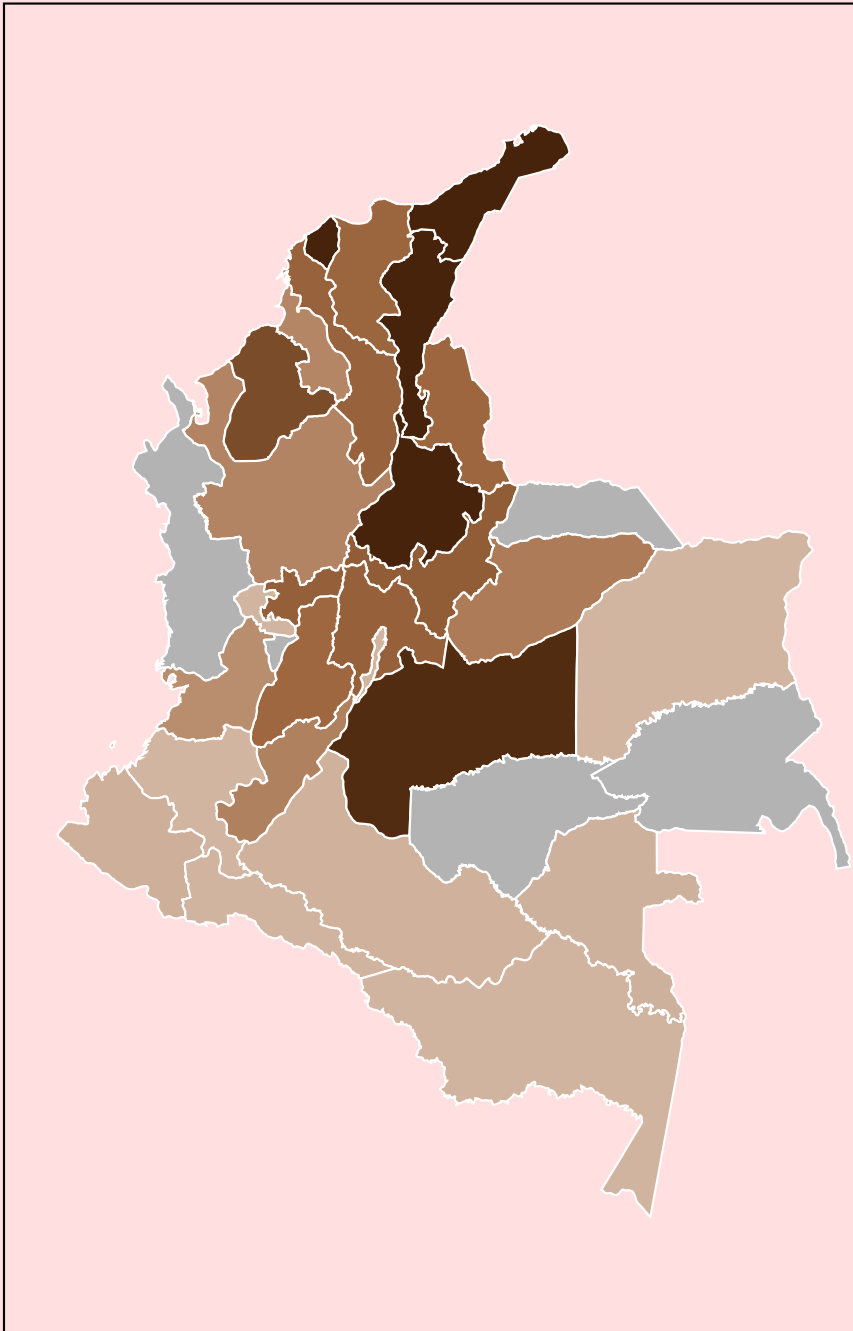
Capacidad de proyectos vigentes por departamento MW

| NC Departamento | BIOMA... | EÓLICO | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-----------------|----------|---------|------------|---------|---------|---------|
| LA GUAJIRA | | 2.474,0 | | 846,0 | | 3.320,0 |
| MAGDALENA | | | | 229,8 | 1.417,6 | 1.647,4 |
| SANTANDER | | | | 1.429,5 | | 1.429,5 |
| CALDAS | | | 995,9 | 261,9 | | 1.257,8 |
| CESAR | | | | 973,5 | | 973,5 |
| ATLANTICO | | 9,9 | | 921,3 | | 931,2 |
| ANTIOQUIA | | | 713,6 | 131,4 | | 845,1 |
| CAUCA | | | 840,6 | 0,0 | | 840,6 |
| BOYACA | | 261,0 | 194,1 | 275,3 | | 730,4 |
| CAQUETA | | | 648,5 | 9,9 | | 658,4 |
| META | | | | 550,5 | | 550,5 |
| BOLIVAR | | 260,0 | | 242,7 | | 502,7 |
| NORTE SANTANDER | | | 36,7 | 220,2 | 180,0 | 436,9 |
| CORDOBA | | | | 368,7 | | 368,7 |
| TOLIMA | 0,0 | | 58,8 | 219,3 | | 278,2 |

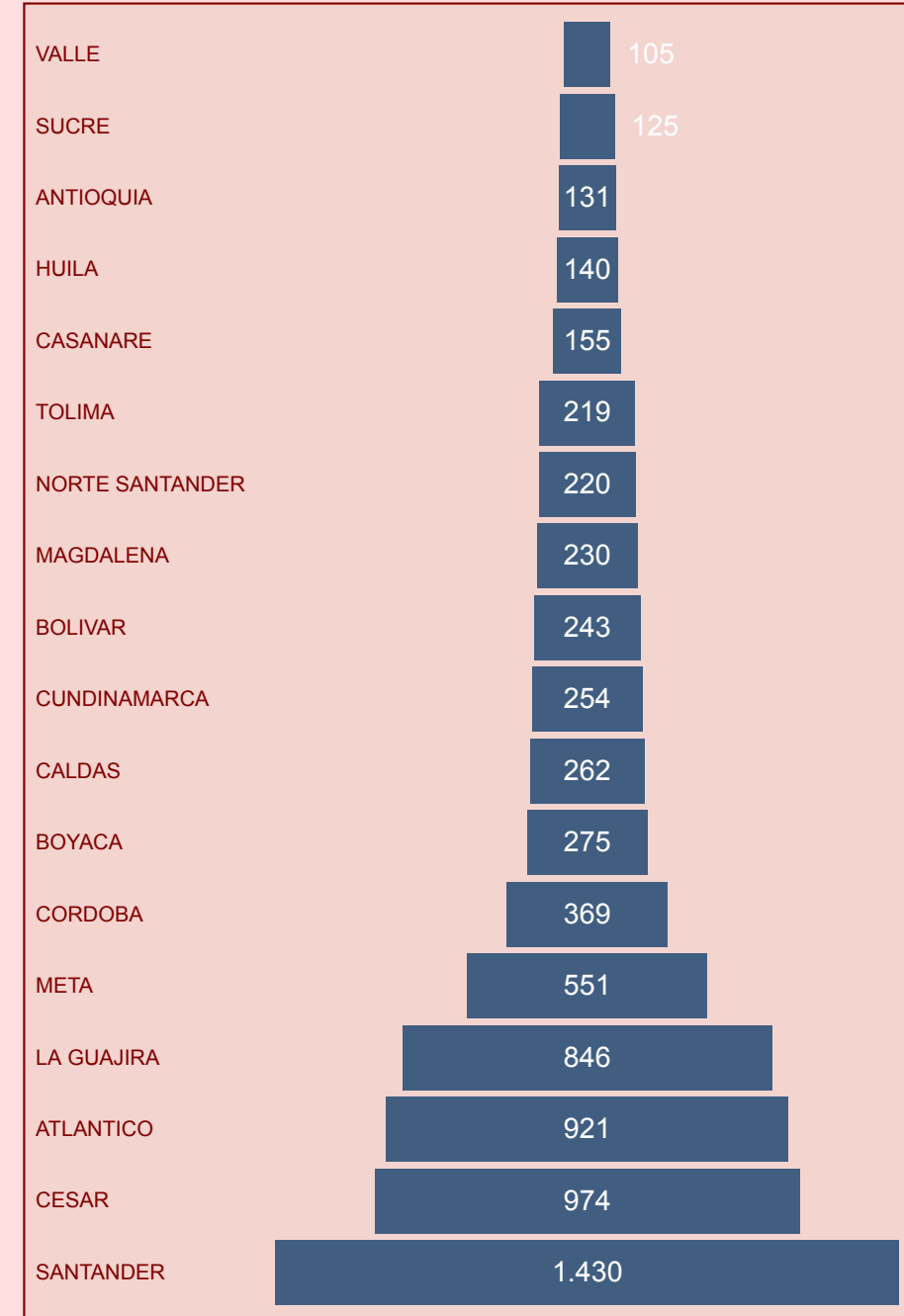
| NC Departamento | BIOMASA | HIDRÁULICO | SOLAR | TÉRMICO | Total |
|-----------------|---------|------------|---------|---------|---------|
| CUNDINAMARCA | | 17,600 | 253,904 | | 271,504 |
| CASANARE | 25,000 | | 154,917 | | 179,917 |
| HUILA | | | 139,864 | | 139,864 |
| VALLE | | 22,960 | 105,272 | 0,500 | 128,732 |
| SUCRE | | | 124,990 | | 124,990 |
| NARIÑO | | 70,900 | 15,600 | | 86,500 |
| CHOCO | | 48,300 | | | 48,300 |
| RISARALDA | | 30,320 | 0,993 | | 31,313 |
| ARAUCA | | 19,950 | | | 19,950 |
| VAUPES | | | 10,800 | | 10,800 |
| QUINDIO | | 10,600 | | | 10,600 |
| PUTUMAYO | | | 3,567 | | 3,567 |
| AMAZONAS | | | 2,030 | | 2,030 |
| VICHADA | | | 1,000 | | 1,000 |
| BOGOTA D.C. | | | 0,015 | | 0,015 |

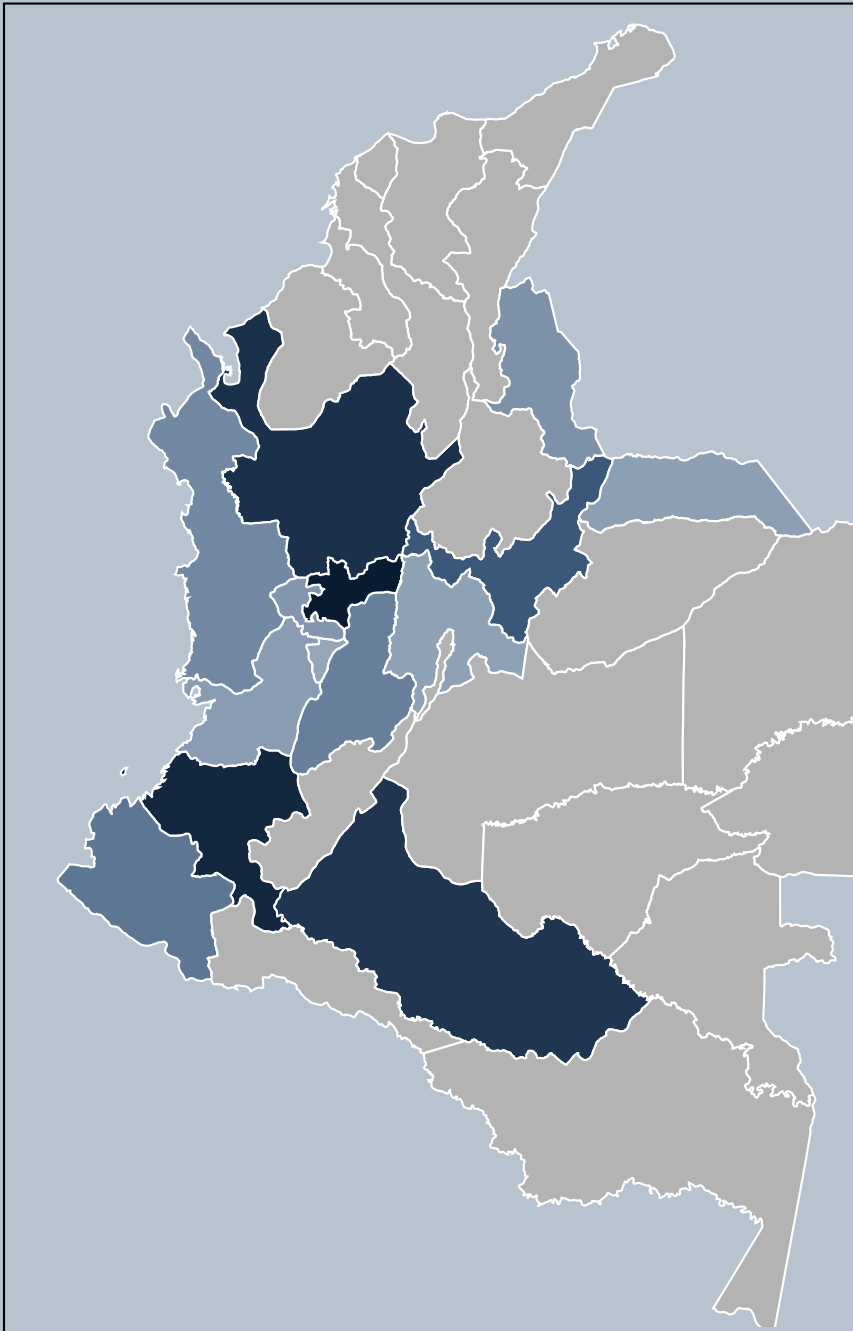
Capacidad de proyectos vigentes por departamento MW



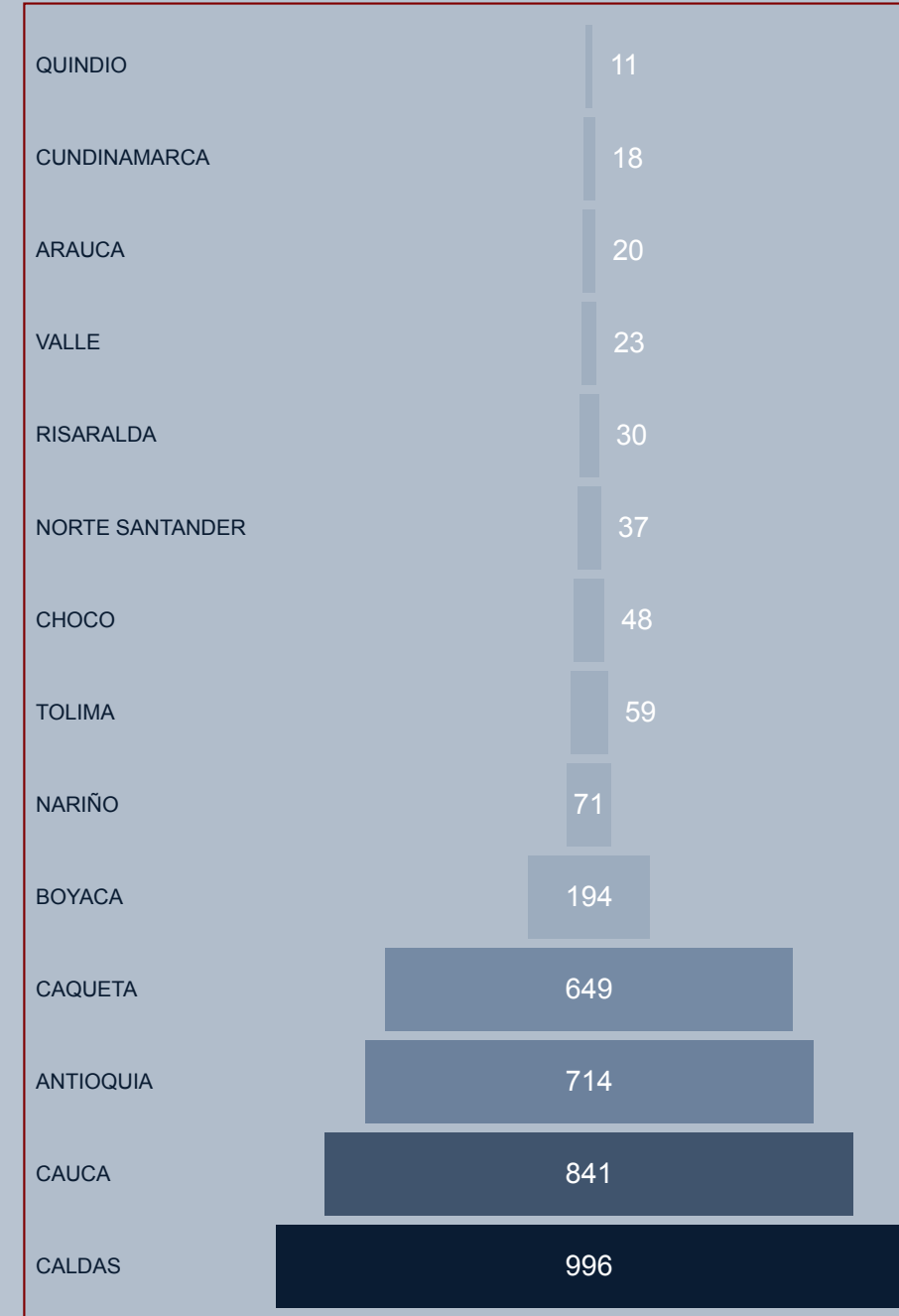
Capacidad de proyectos solares vigentes por departamento MW


| NC Departamento | Count of Codigo Proyecto | Capacidad MW |
|-----------------|--------------------------|-----------------|
| SANTANDER | 11 | 1.429,53 |
| CESAR | 12 | 973,50 |
| ATLANTICO | 21 | 921,26 |
| LA GUAJIRA | 4 | 846,00 |
| META | 10 | 550,52 |
| CORDOBA | 17 | 368,66 |
| BOYACA | 14 | 275,31 |
| CALDAS | 7 | 261,92 |
| CUNDINAMARCA | 7 | 253,90 |
| BOLIVAR | 12 | 242,70 |
| MAGDALENA | 4 | 229,80 |
| NORTE SANTANDER | 8 | 220,19 |
| TOLIMA | 14 | 219,30 |
| CASANARE | 4 | 154,92 |
| HUILA | 7 | 139,86 |
| ANTIOQUIA | 6 | 131,45 |
| SUCRE | 10 | 124,99 |
| VALLE | 25 | 105,27 |
| NARIÑO | 2 | 15,60 |
| VAUPES | 2 | 10,80 |
| CAQUETA | 1 | 9,90 |
| PUTUMAYO | 2 | 3,57 |
| AMAZONAS | 1 | 2,03 |
| VICHADA | 1 | 1,00 |
| RISARALDA | 3 | 0,99 |
| CAUCA | 3 | 0,03 |
| BOGOTA D.C. | 1 | 0,01 |
| Total | 209 | 7.493,02 |

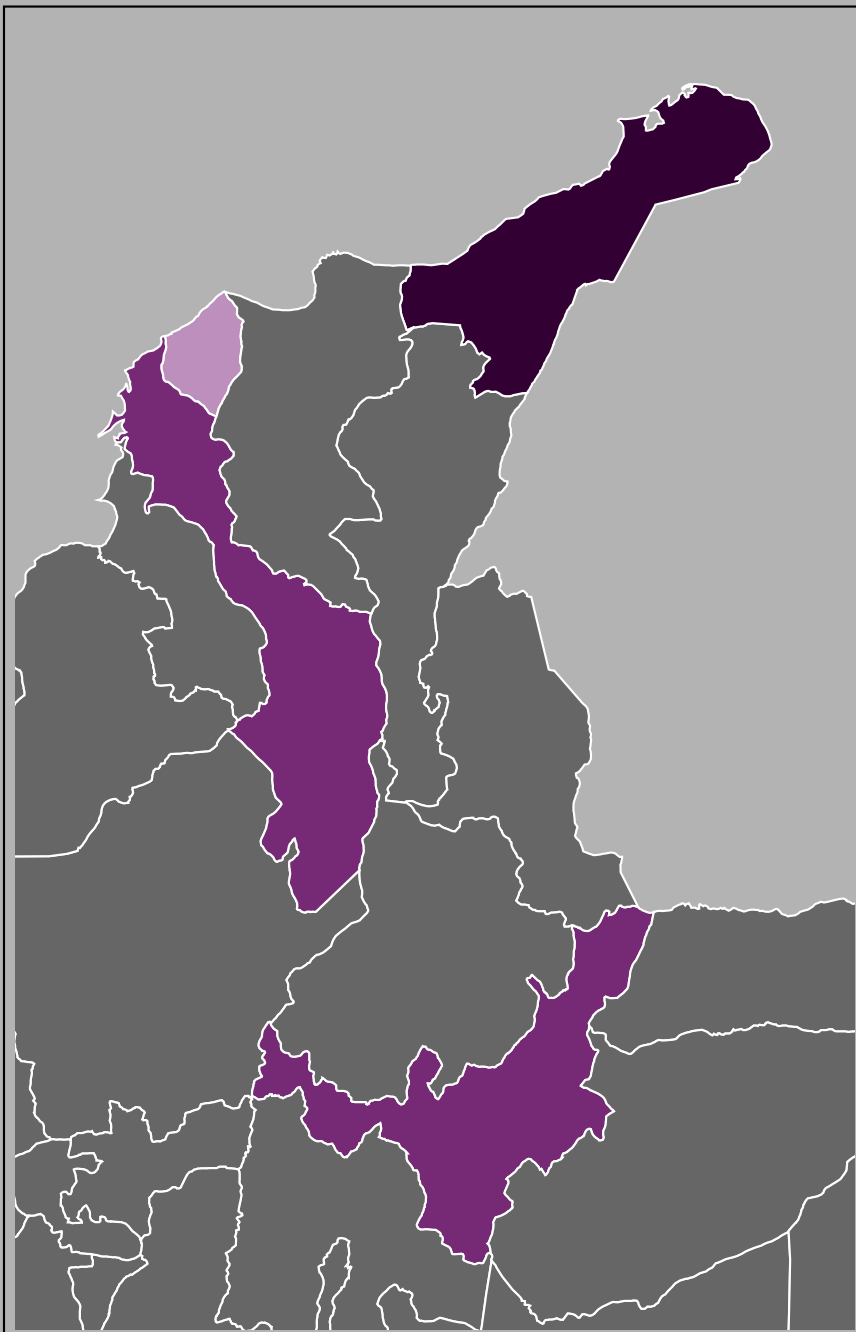


Capacidad de proyectos hidráulicos vigentes por departamento MW


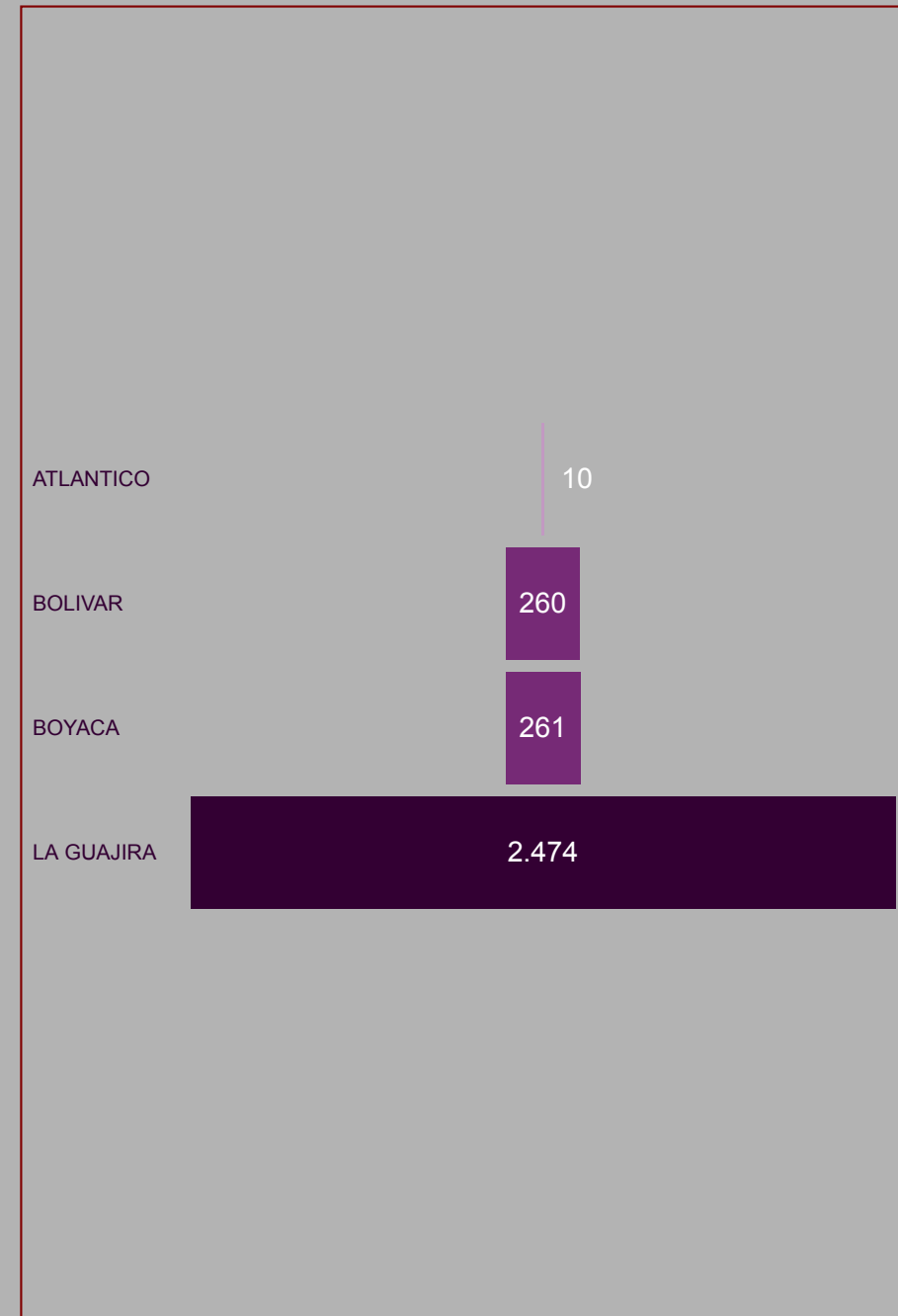
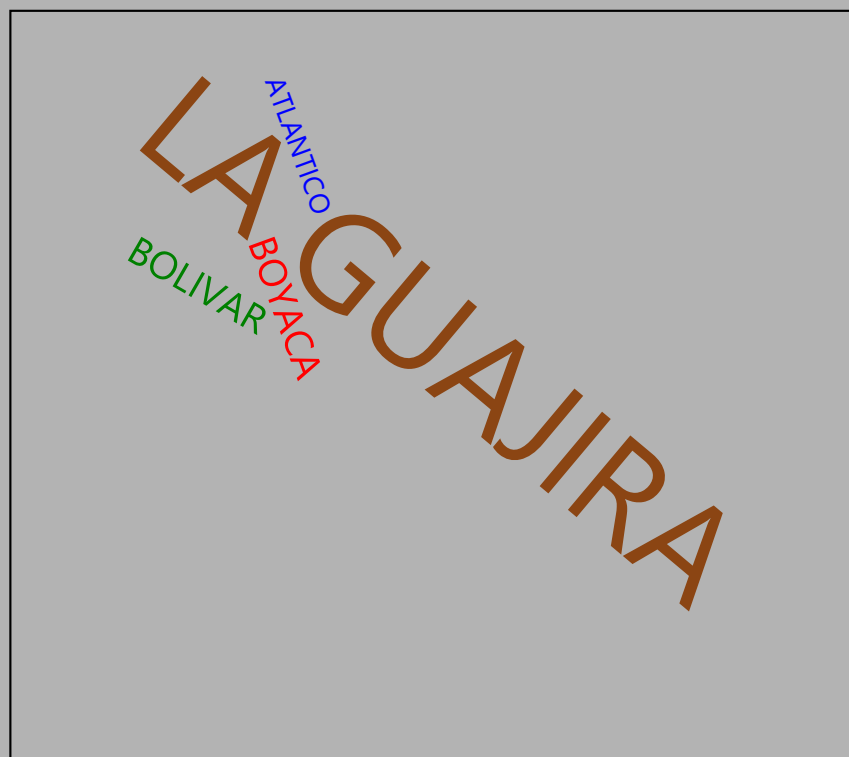
| NC Departamento | Count of Codigo Proyecto | Capacidad MW |
|-----------------|--------------------------|-----------------|
| QUINDIO | 1 | 10,60 |
| CUNDINAMARCA | 1 | 17,60 |
| ARAUCA | 1 | 19,95 |
| VALLE | 3 | 22,96 |
| RISARALDA | 4 | 30,32 |
| NORTE SANTANDER | 3 | 36,70 |
| CHOCO | 1 | 48,30 |
| TOLIMA | 5 | 58,85 |
| NARIÑO | 2 | 70,90 |
| BOYACA | 5 | 194,08 |
| CAQUETA | 1 | 648,50 |
| ANTIOQUIA | 34 | 713,65 |
| CAUCA | 5 | 840,60 |
| CALDAS | 11 | 995,88 |
| Total | 77 | 3.708,89 |



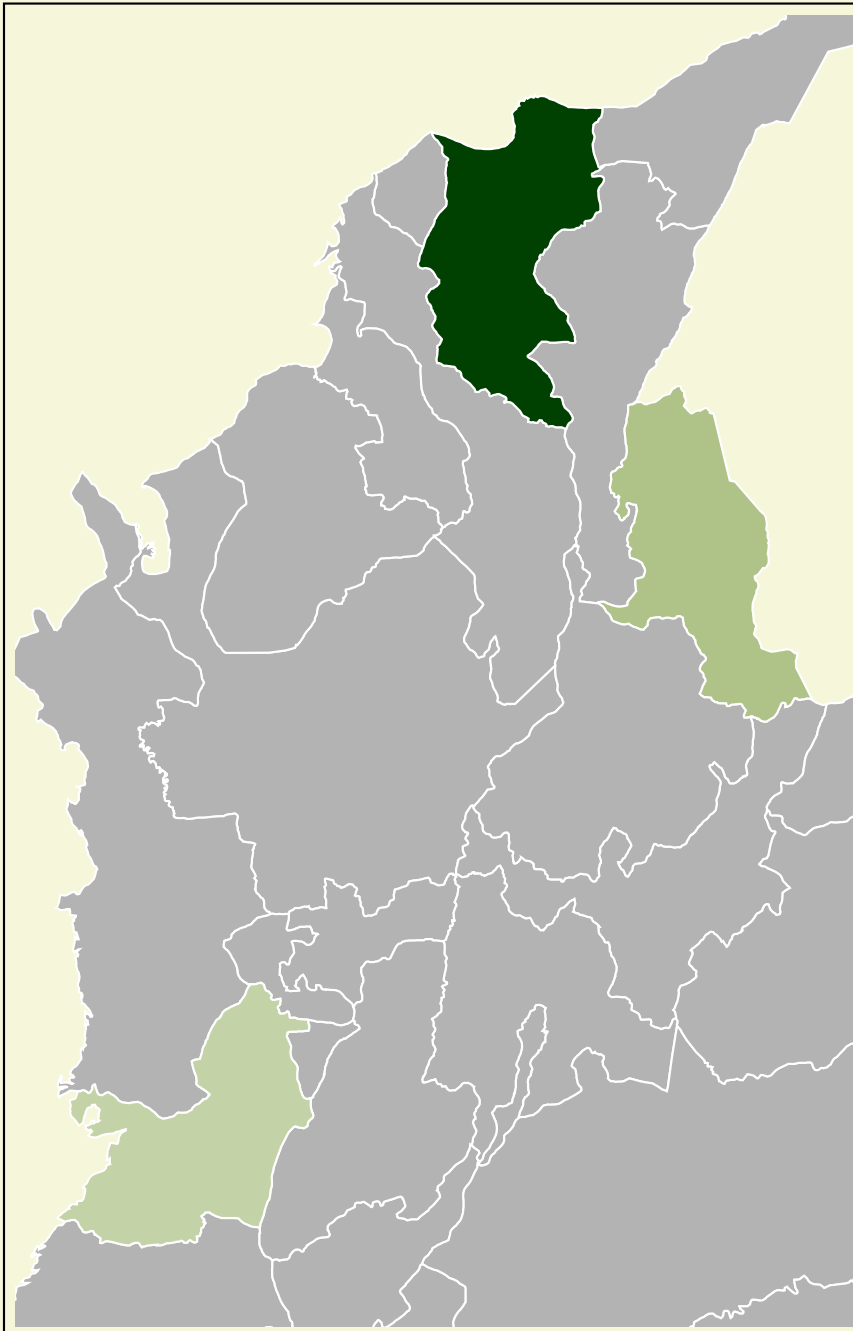
Capacidad de proyectos eólicos vigentes por departamento MW



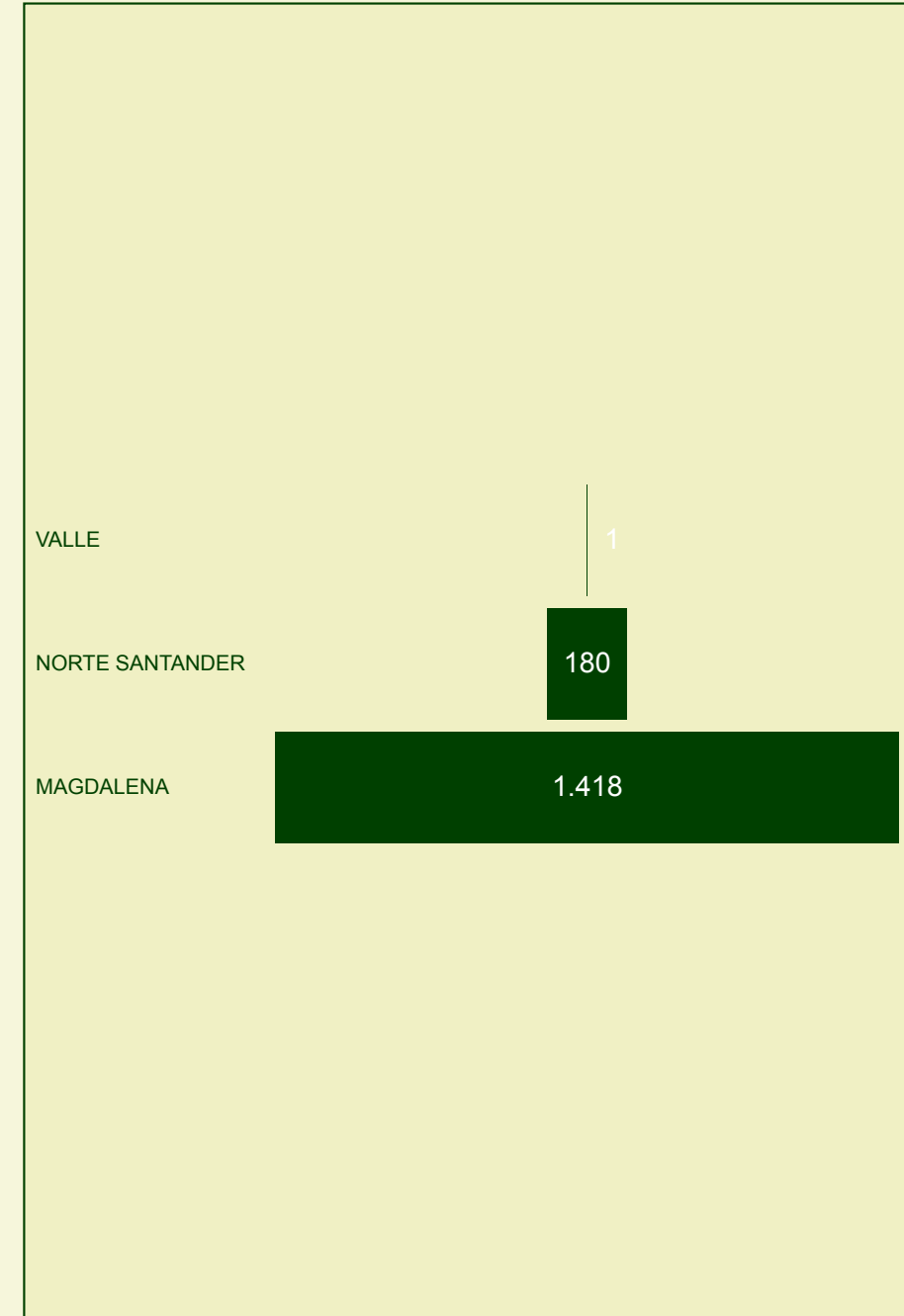
| NC Departamento | Count of Codigo Proyecto | Capacidad MW |
|-----------------|--------------------------|-----------------|
| LA GUAJIRA | 13 | 2.474,00 |
| BOYACA | 3 | 261,00 |
| BOLIVAR | 2 | 260,00 |
| ATLANTICO | 1 | 9,90 |
| Total | 19 | 3.004,90 |



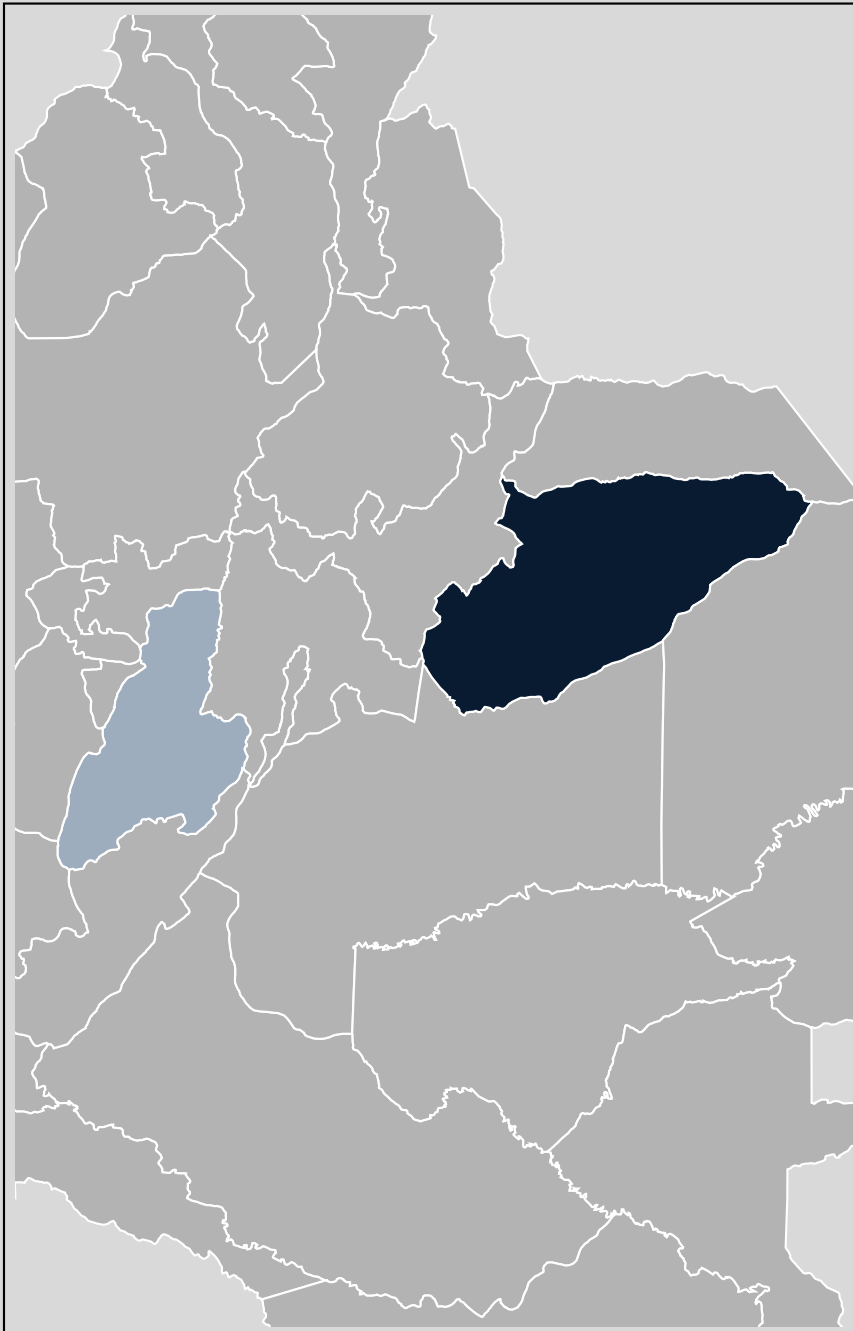
Capacidad de proyectos térmicos vigentes por departamento MW



| NC Departamento | Count of Codigo Proyecto | Capacidad MW |
|-----------------|--------------------------|-----------------|
| MAGDALENA | 4 | 1.417,60 |
| NORTE SANTANDER | 1 | 180,00 |
| VALLE | 1 | 0,50 |
| Total | 6 | 1.598,10 |



Capacidad de proyectos de biomasa vigentes por departamento MW

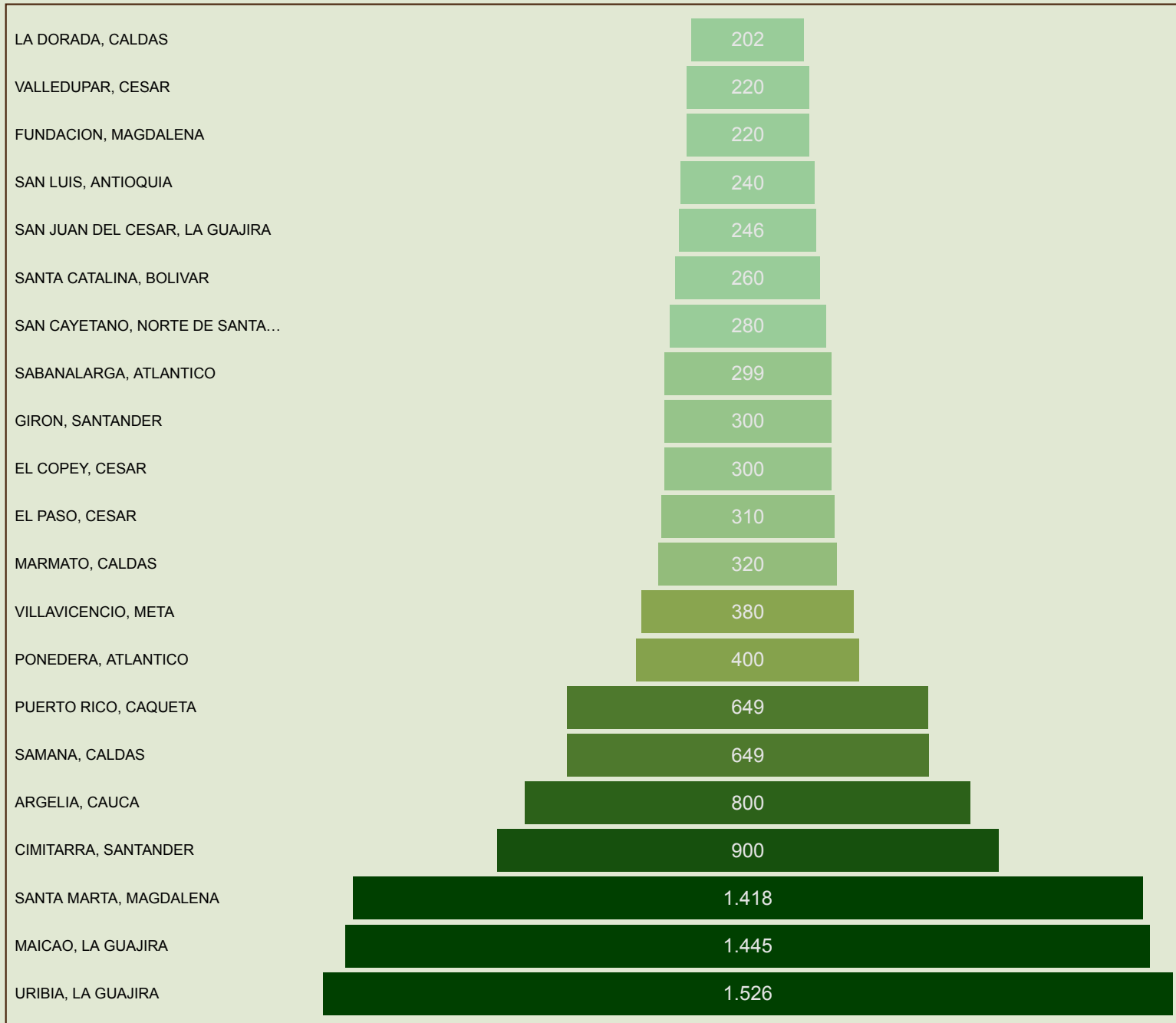
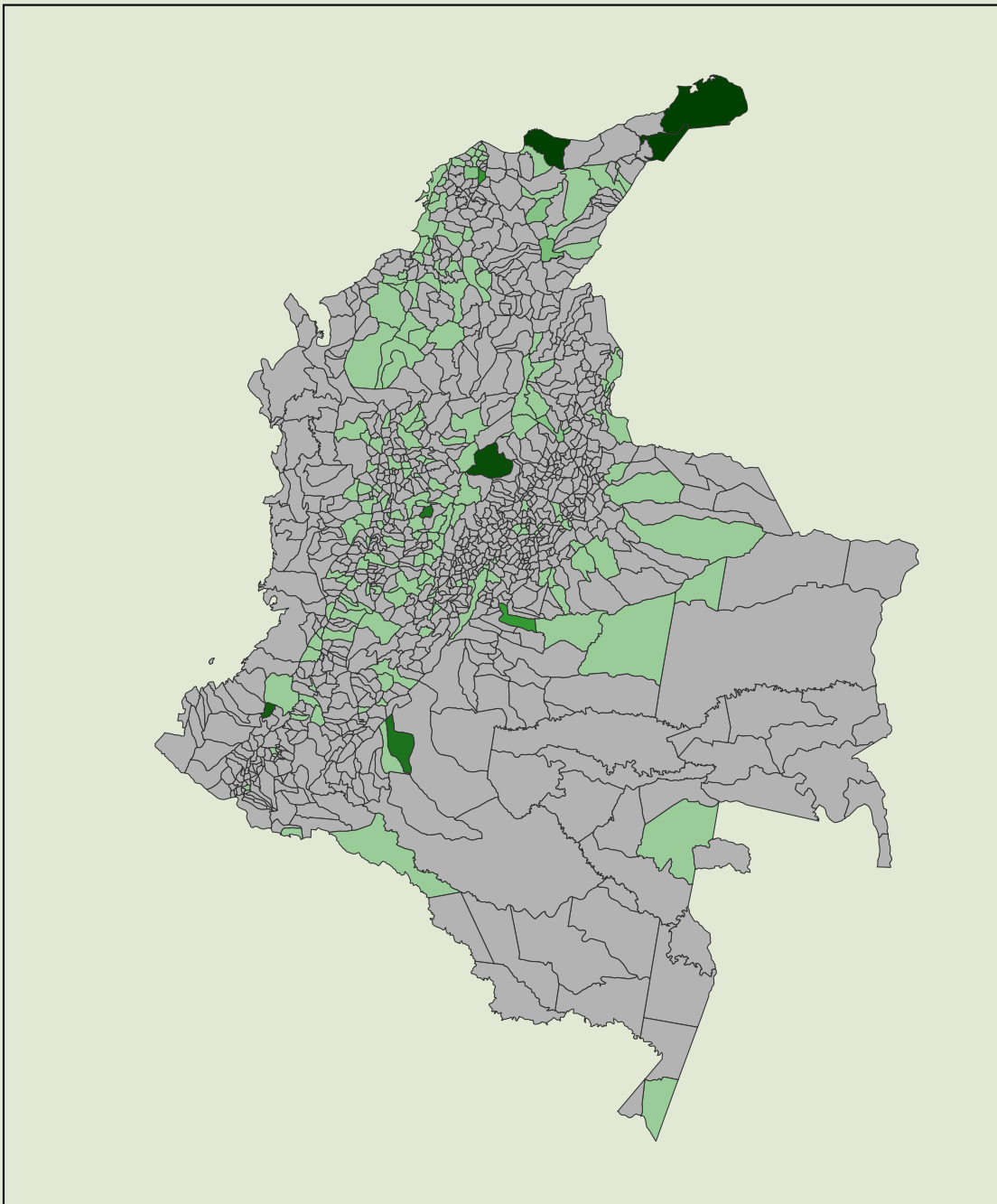


| NC Departamento | Count of Codigo Proyecto | Capacidad MW |
|-----------------|--------------------------|--------------|
| CASANARE | 1 | 25,00 |
| TOLIMA | 1 | 0,03 |
| Total | 2 | 25,03 |



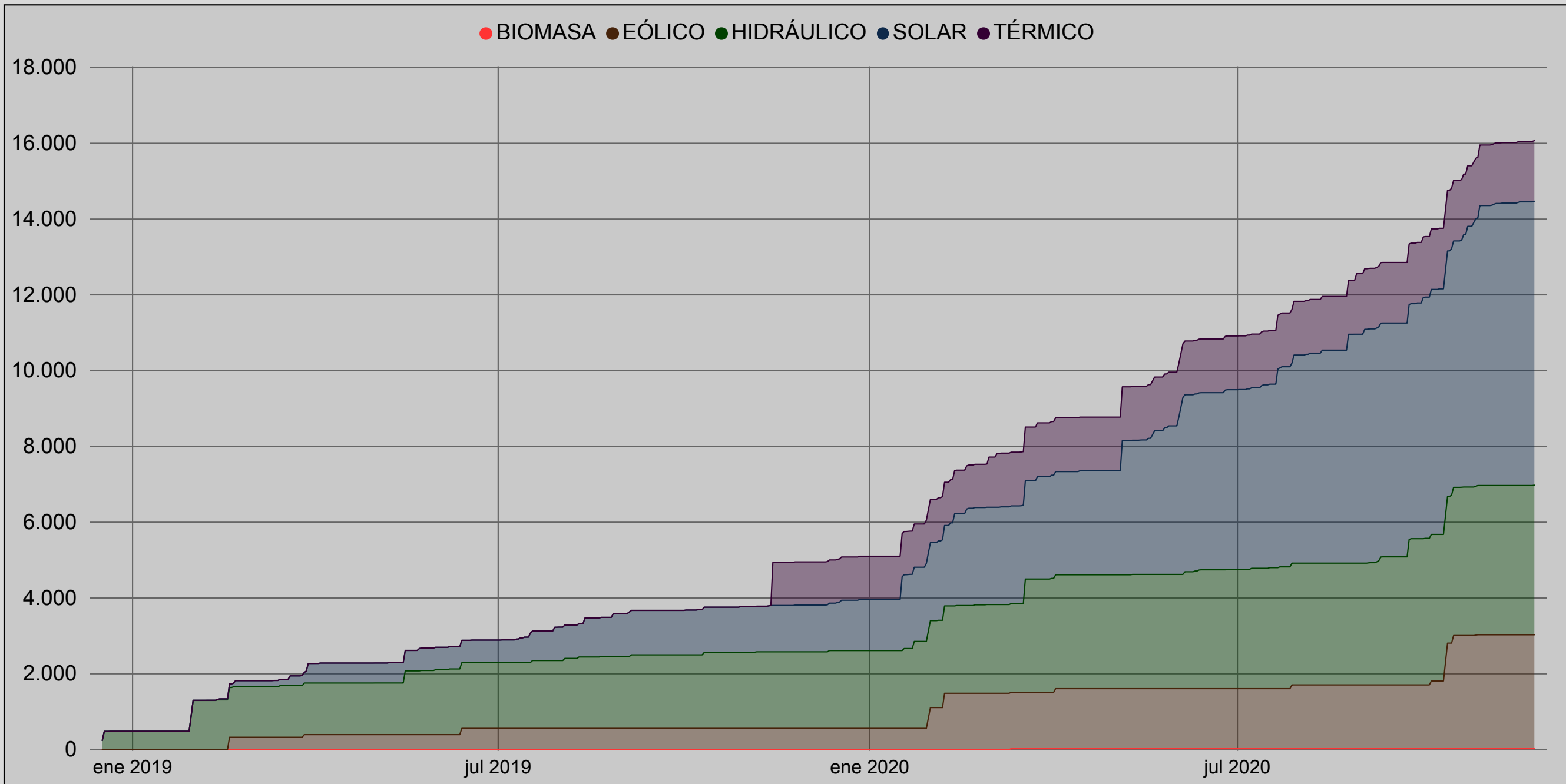
CASANARE
TOLIMA

Capacidad de proyectos vigentes por municipio MW

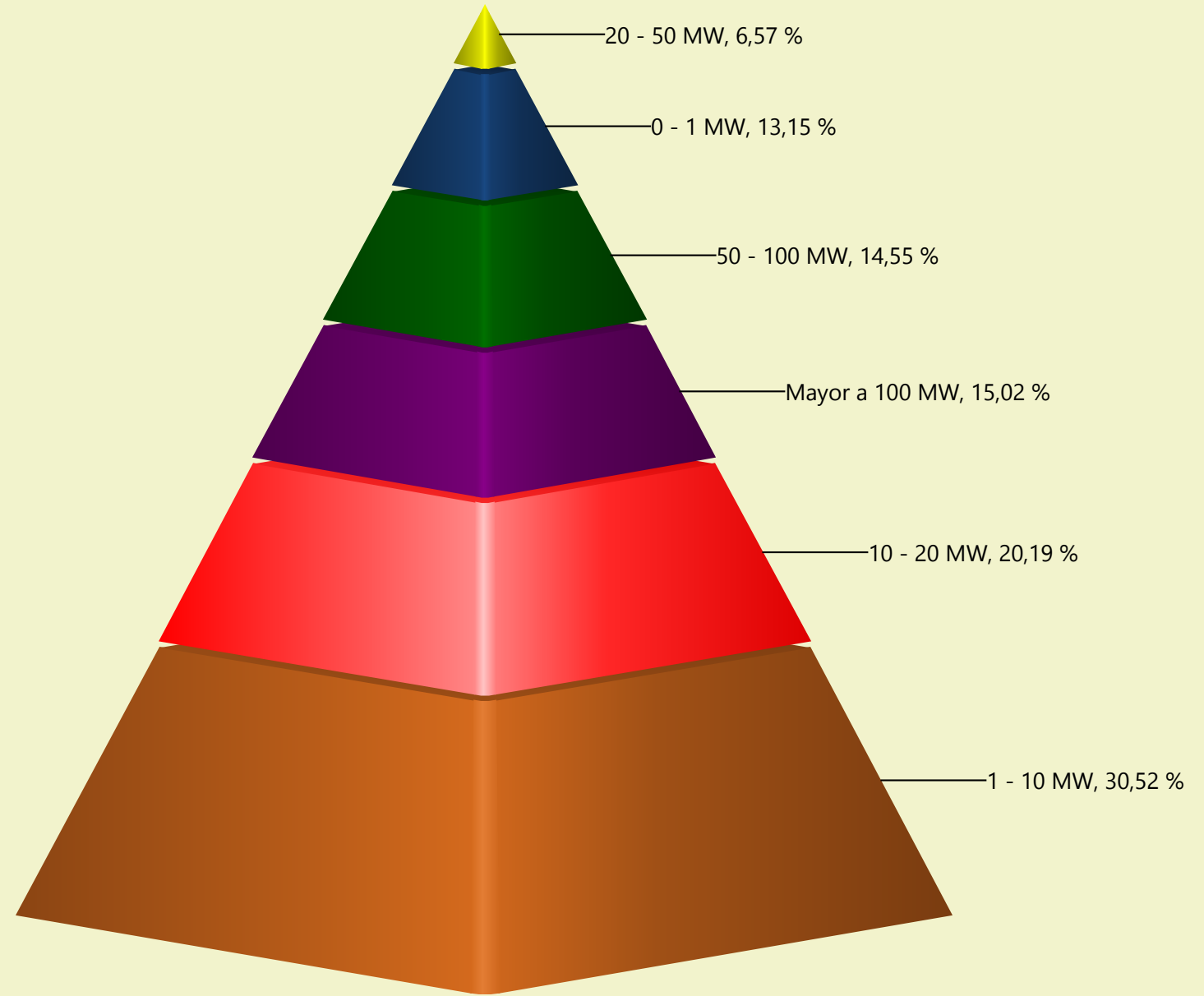
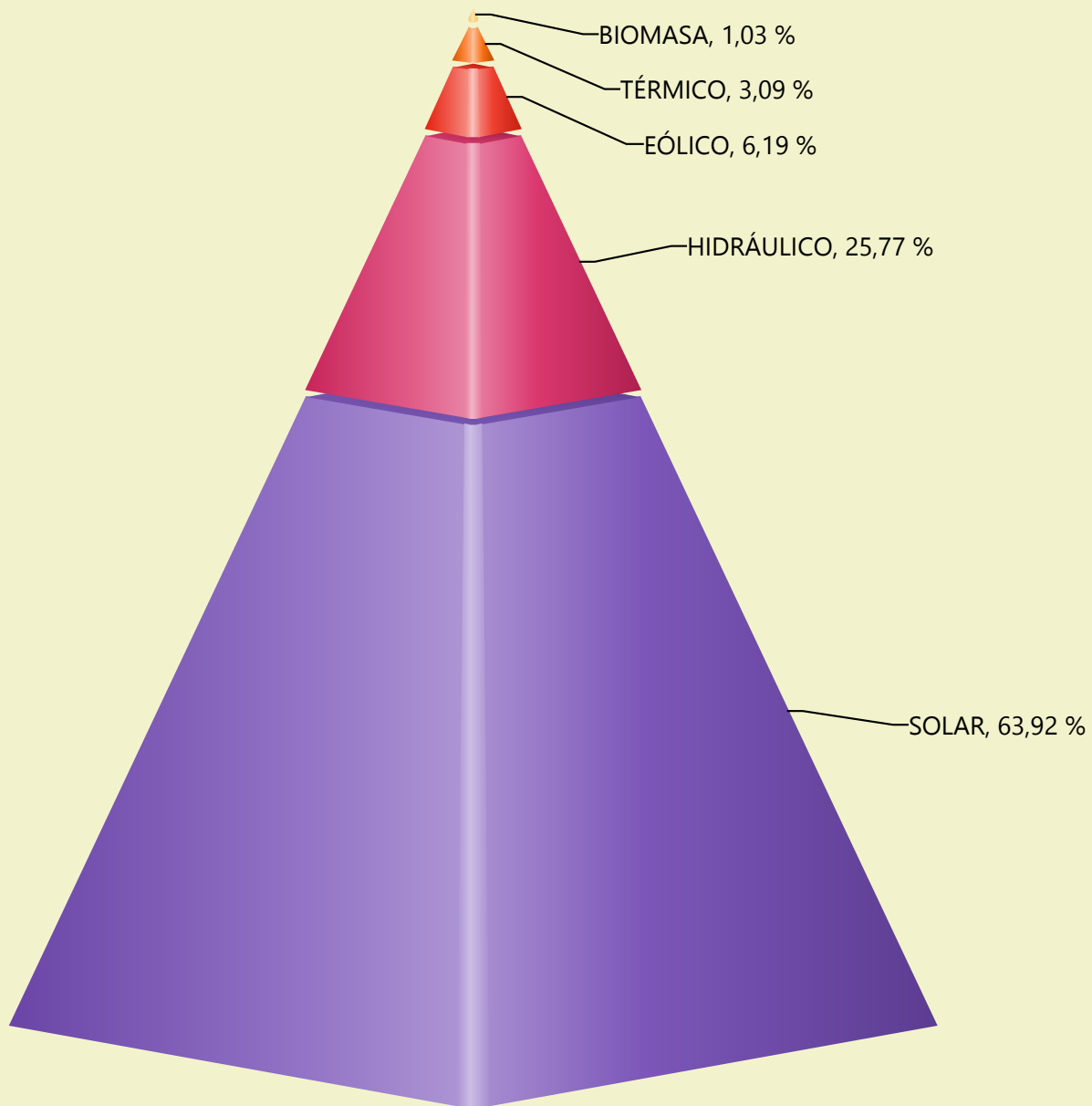


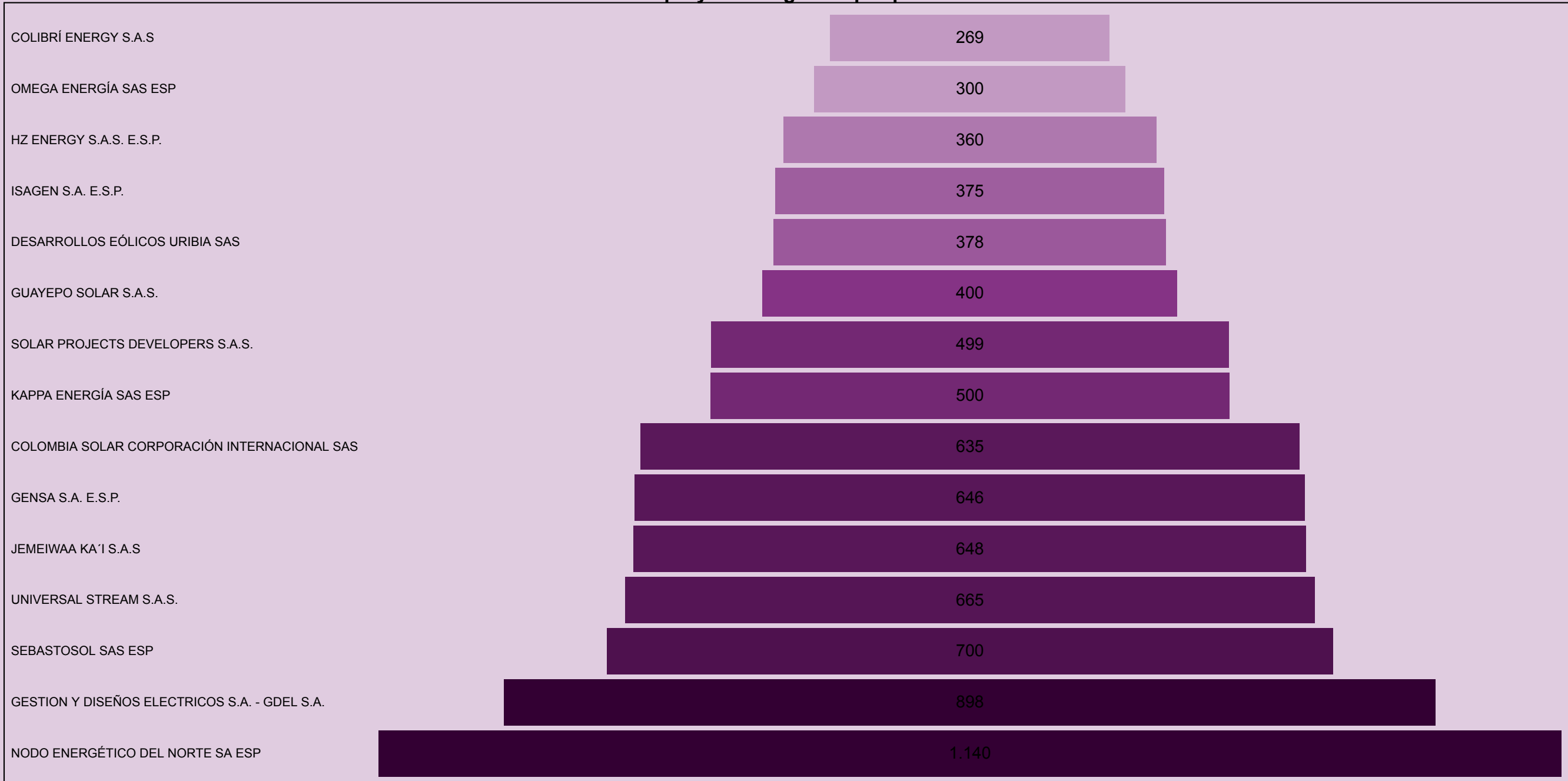
Potencia acumulada de proyectos vigentes según el tipo MW

● BIOMASA ● EÓLICO ● HIDRÁULICO ● SOLAR ● TÉRMICO

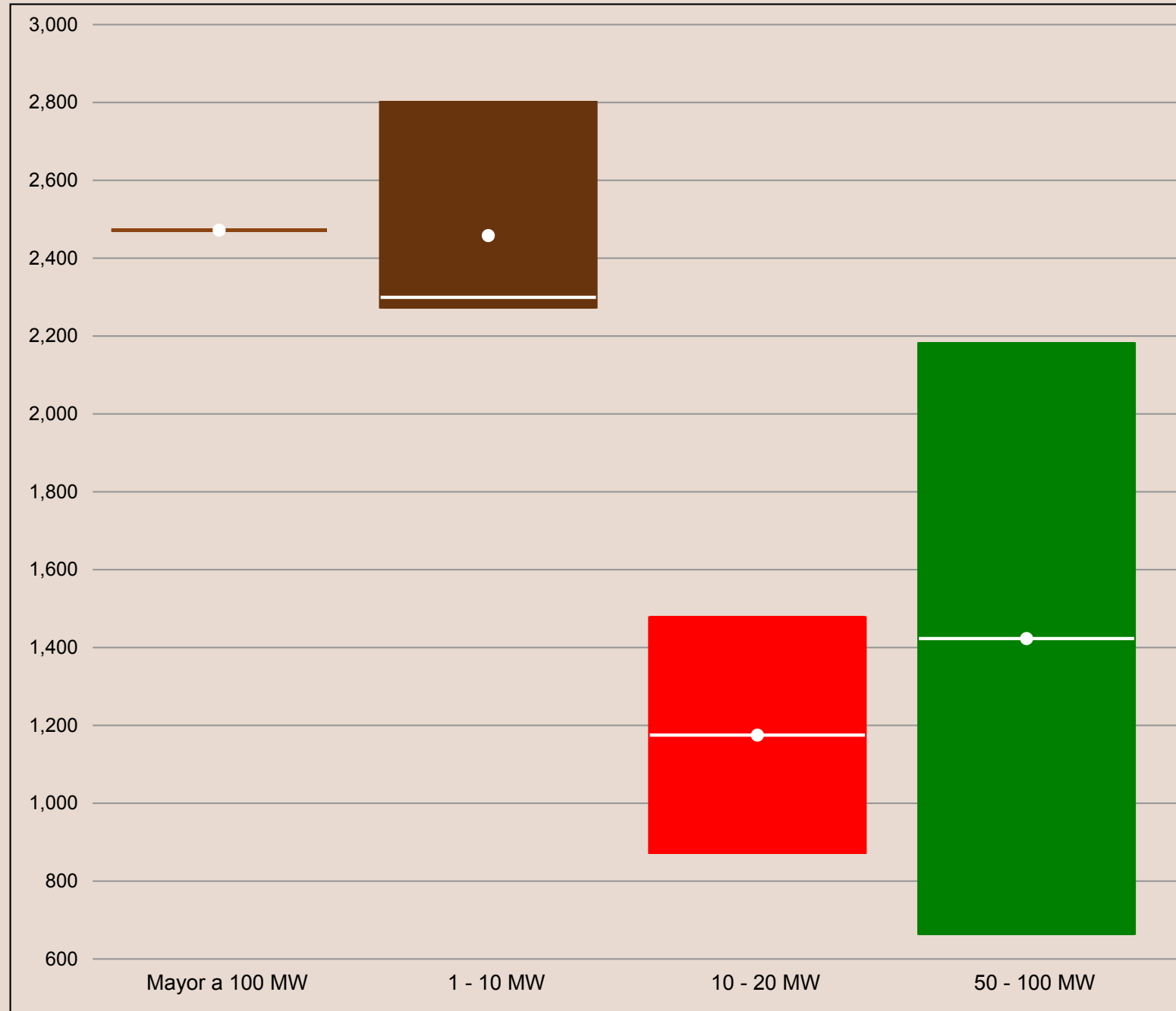
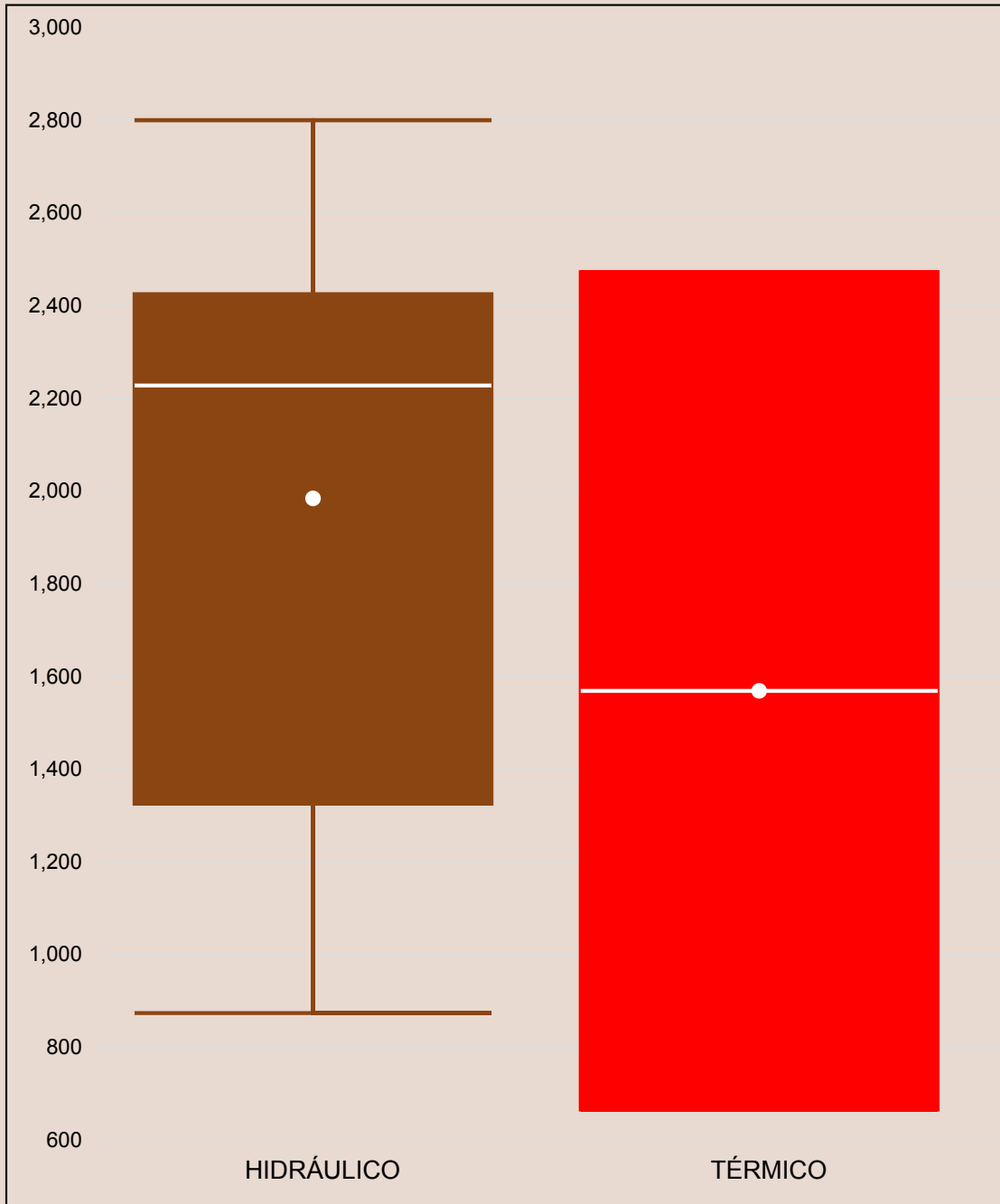


Número de promotores de proyectos vigentes por tipo y por rango de potencia

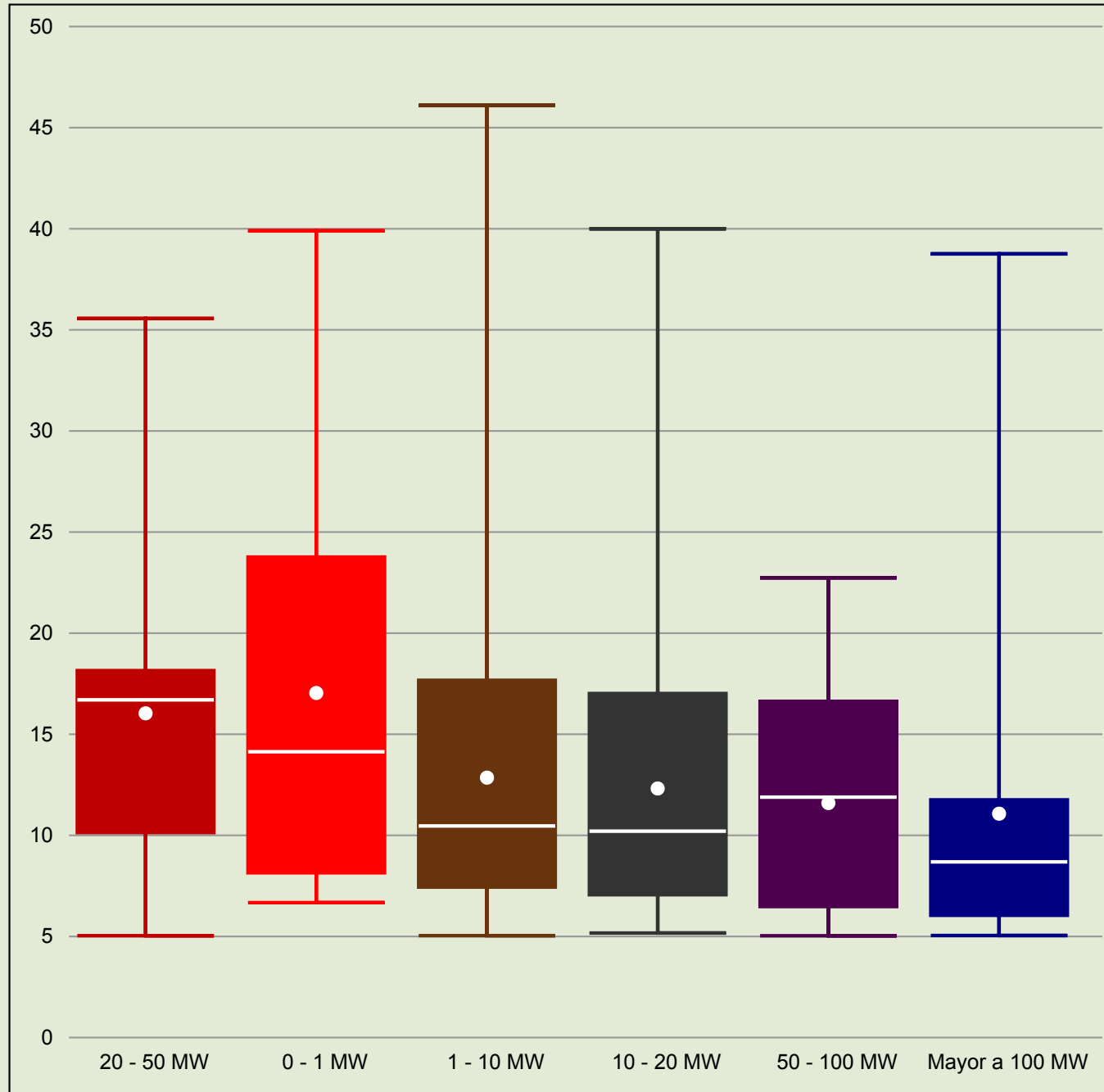
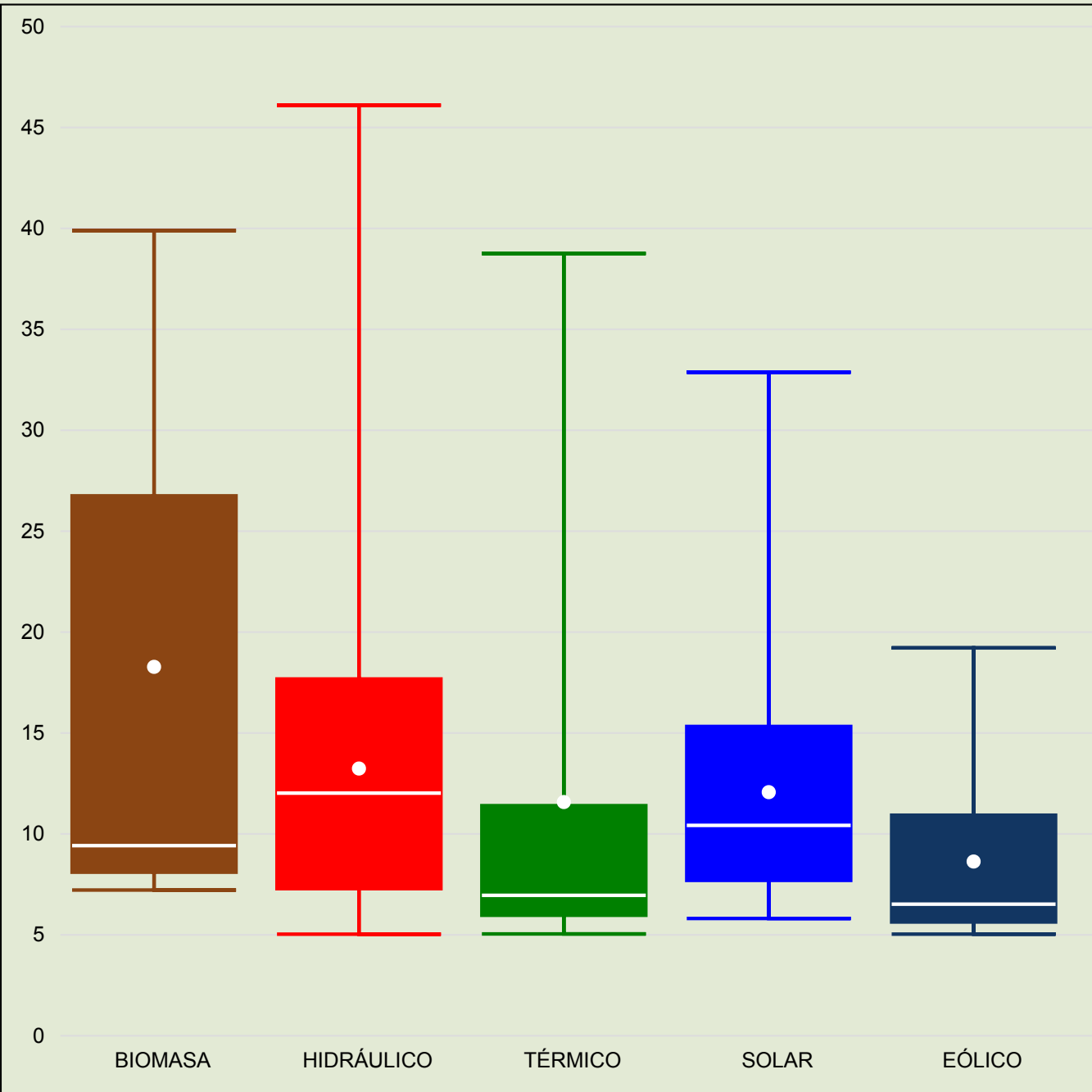


Potencia de proyectos vigentes por promotor MW


Costos índice de instalación por tecnología y por rango de potencia US\$/kW



Costos índice de generación (US\$/MWh)





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www.upme.gov.co