Relatório de análise de dados - Projetos de carbono e mineração

## Projetos de carbono em áreas de mineração

* Total de 73 projetos de carbono têm alguma intersecção com áreas de mineração
* São 743 áreas de mineração em algum estado de licenciamento com projetos de carbono
* Desses projetos, 30 comercializaram créditos de carbono, totalizando 40 177 141 toneladas de carbono supostamente compensado ([Tabela 1](#tbl-vcu)).
* Das entidades identificadas, o maior comprador de créditos em projetos de carbono em áreas de mineração é a Companhia de Navegação Norsul ([Tabela 4](#tbl-compra), tabela completa [aqui](https://docs.google.com/spreadsheets/d/1MClu8UinIoJNutZ0pt0YBkZ4W1Ni3h7hCsFjX_p99yg/edit?gid=1819096323#gid=1819096323))
* Do total de créditos comercializados na Amazônia, 61% estão em projetos em áreas de mineração

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| Tabela 1: Total de créditos de carbono comercializados por projeto   | id\_projeto | nome\_projeto | vcu\_quantity | | --- | --- | --- | | 875 | FLORESTAL SANTA MARIA PROJECT | 8 239 076 | | 977 | RMDLT Portel-Para REDD Project | 6 835 084 | | 2252 | Rio Anapu-Pacaja REDD Project | 6 307 759 | | 832 | CIKEL BRAZILIAN AMAZON REDD APD PROJECT – AVOIDING PLANNED DEFORESTATION | 2 894 810 | | 2508 | UNITOR REDD+ Project | 2 314 892 | | 1115 | Jari/Amapá REDD+ Project | 2 097 201 | | 2878 | Rio Madeira Grouped REDD+ Project | 1 752 414 | | 2551 | Brazilian Amazon APD Grouped Project | 1 380 858 | | 1503 | RESEX Rio Preto-Jacundá REDD+ Project | 1 363 327 | | 1654 | Fortaleza Ituxi REDD Project | 1 255 055 | | 1571 | Projeto REDD+ Manoa | 1 021 576 | | 1953 | The ARC REDD+ Project | 941 618 | | 1811 | Jari/Pará REDD+ Project | 900 752 | | 2558 | ABC Norte REDD Project | 787 063 | | 2539 | Evergreen REDD+ Project | 766 356 | | 1329 | Maísa REDD+ Project | 634 948 | | 1118 | Suruí Forest Carbon Project | 251 529 | | 2566 | The Serra do Amolar REDD+ Project | 233 704 | | 1147 | Amazon Rio REDD+ APD Project | 182 347 | | 2373 | Yellow Ipê Grouped REDD Project | 16 772 | | Total | - | 40 177 141 | |

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| Tabela 2: Créditos comercializados (sem Eco) em projetos sem áreas de mineração   | id\_projeto | resourceName | quantity | vcu\_quantity | | --- | --- | --- | --- | | 981 | Pacajai REDD+ Project | 9683019 | 9 683 019 | | 1382 | The Envira Amazonia Project - A Tropical Forest Conservation Project in Acre, Brazil | 7733750 | 7 733 750 | | 1686 | Agrocortex REDD Project | 2692244 | 2 692 244 | | 1094 | Ecomapua Amazon REDD Project | 1816290 | 1 816 290 | | 1112 | The Russas Project | 1407657 | 1 407 657 | | 1113 | The Valparaiso Project | 1323691 | 1 323 691 | | 963 | The Purus Project | 861351 | 861 351 | | 3002 | Hiwi REDD+ Project | 151373 | 151 373 | | Total | - | 25669375 | 25 669 375 | |

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| Tabela 3: Comparação de créditos comercializados (sem Eco)   |  | Créditos | % | | --- | --- | --- | | com\_mineracao | 40 177 141 | 61% | | sem\_mineracao | 25 669 375 | 39% | | Total | 65 846 516 | 100% | |

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| Tabela 4: Quem comprou créditos de projetos em áreas de mineração   | vcu\_retirementBeneficiary | vcu\_quantity | | --- | --- | | NA | 29 140 965 | | Takeda Pharmaceutical Company | 1 500 000 | | MOSS EARTH - RETIREMENT FOR TOKENIZATION | 514 939 | | NATURA COSMÉTICOS S.A. | 433 777 | | Companhia de Navegação Norsul | 348 914 | | WEX Europe Services | 306 645 | | The Boeing Company | 238 898 | | BV - Banco Votorantim S.A. | 200 000 | | Telefônica Brasil S.A. | 167 064 | | Groupe Air France | 166 667 | |

Alguns desses créditos constam como *cancelados* (e não *retired*). Precisamos entender melhor a diferença entre os dois. Considerando essas informações, o panorama muda ([Tabela 5](#tbl-cancel)):

* No total, foram 2,2 bilhões de toneladas comercializados cancelados e 1,6 bilhão cancelados
* O FLORESTAL SANTA MARIA é o projeto com a maior quantidade de créditos comercializados cancelados

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| Tabela 5: Créditos cancelados por projeto   | id\_projeto | nome\_projeto | cancelado\_TRUE | cancelado\_FALSE | | --- | --- | --- | --- | | 977 | RMDLT Portel-Para REDD Project | 6 233 677 | 601 407 | | 875 | FLORESTAL SANTA MARIA PROJECT | 4 677 402 | 3 561 674 | | 2878 | Rio Madeira Grouped REDD+ Project | 1 669 954 | 82 460 | | 1115 | Jari/Amapá REDD+ Project | 1 638 050 | 459 151 | | 832 | CIKEL BRAZILIAN AMAZON REDD APD PROJECT – AVOIDING PLANNED DEFORESTATION | 1 589 497 | 1 305 313 | | 1503 | RESEX Rio Preto-Jacundá REDD+ Project | 1 346 827 | 16 500 | | 1654 | Fortaleza Ituxi REDD Project | 1 151 553 | 103 502 | | 2508 | UNITOR REDD+ Project | 1 002 053 | 1 312 839 | | 2252 | Rio Anapu-Pacaja REDD Project | 990 528 | 5 317 231 | | 1811 | Jari/Pará REDD+ Project | 887 156 | 13 596 | | 2551 | Brazilian Amazon APD Grouped Project | 875 881 | 504 977 | | 1329 | Maísa REDD+ Project | 599 557 | 35 391 | | 1571 | Projeto REDD+ Manoa | 584 313 | 437 263 | | 2539 | Evergreen REDD+ Project | 458 382 | 307 974 | | 2558 | ABC Norte REDD Project | 297 820 | 489 243 | | 1953 | The ARC REDD+ Project | 255 079 | 686 539 | | 1118 | Suruí Forest Carbon Project | 251 529 | NA | | 1147 | Amazon Rio REDD+ APD Project | 180 950 | 1 397 | | 2566 | The Serra do Amolar REDD+ Project | 171 161 | 62 543 | | 2373 | Yellow Ipê Grouped REDD Project | NA | 16 772 | | Total | - | 24 861 369 | 15 315 772 | |

### Área total

* São mais de 1 568 532 hectares em regiões pertencentes a ambos projetos e áreas de mineração
* Os projetos de carbono que abrangem uma maior área de mineração são Jari/Pará REDD+ Project, Boa Fé REDD Project e Amazônidas REDD+ AUDD Grouped Project. A lista completa dos projetos de carbono, empresas responsáveis por processos minerários e suas respectivas áreas de intersecção podem ser encontradas [aqui](https://docs.google.com/spreadsheets/d/1MClu8UinIoJNutZ0pt0YBkZ4W1Ni3h7hCsFjX_p99yg/edit?usp=drive_link).

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| Tabela 6: 10 projetos com maior área de intersecção com áreas de mineração   | id\_projeto | nome\_projeto | uf | area\_projeto\_hectares | area | pct\_area | | --- | --- | --- | --- | --- | --- | | 1811 | Jari/Pará REDD+ Project | PA | 908550.21 [ha] | 353 911 | 38.953% | | 2482 | Boa Fé REDD Project | AM | 433515.82 [ha] | 173 668 | 40.060% | | 4542 | Amazônidas REDD+ AUDD Grouped Project | AM | 265085.04 [ha] | 104 532 | 39.433% | | 2539 | Evergreen REDD+ Project | AM | 178660.86 [ha] | 84 882 | 47.510% | | 1571 | Projeto REDD+ Manoa | RO | 73149.32 [ha] | 72 997 | 99.791% | | 875 | FLORESTAL SANTA MARIA PROJECT | MT | 71661.21 [ha] | 71 053 | 99.151% | | 3816 | Samaúma REDD+ | AM | 71696.18 [ha] | 70 332 | 98.097% | | 4956 | Tapera Amazonas REDD+ | AM | 281934.49 [ha] | 61 131 | 21.683% | | 4142 | Serenity Valley REDD Project | PA | 52424.62 [ha] | 52 308 | 99.778% | | 2709 | Juruena River REDD+ Project | MT | 48951.95 [ha] | 45 836 | 93.634% | |

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| Tabela 7: 10 empresas responsáveis pelos processos minerários com maior área dentro de projetos de carbono   | PROCESSO | UF | anm\_nome | area | | --- | --- | --- | --- | | 880078/2018 | AM | COOPERATIVA DOS GARIMPEIROS E MINERADORES DO BRASIL | 10 000.102812 | | 850038/2006 | PA | Jari Produtos e Materiais de Mineração S.a. | 10 000.058210 | | 850606/2004 | PA | FRANCISCO OLIMPIO OLIVEIRA | 10 000.058181 | | 806566/1971 | PA | Msl Minerais S A | 10 000.055390 | | 850366/2016 | PA | Manoel Vieira Ramos | 9 999.757516 | | 880077/2018 | AM | COOPERATIVA DOS GARIMPEIROS E MINERADORES DO BRASIL | 9 999.222220 | | 880092/2021 | AM | COOPERATIVA GARIMPEIRA E MINERADORA NACIONAL - COOPERMINE | 9 998.709059 | | 850358/2021 | PA | EMANOEL DO SOCORRO CARDOSO DA SILVA | 9 997.074330 | | 850359/2021 | PA | EMANOEL DO SOCORRO CARDOSO DA SILVA | 9 995.750936 | | 880188/2014 | AM | Bauxita Resources Mineração e Participações Ltda. | 9 965.387864 | |

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| Figura 1: Projeto Maísa (amarelo) e áreas de mineração (vermelho) |

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| Figura 2: Projeto Jari/Pará (amarelo) e áreas de mineração (vermelho) |

## Fase de requerimento

Por fase de requerimento, a maior parte se concentra nos processos com autorização de pesquisa ([Tabela 8](#tbl-fase)).

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| Tabela 8: Área de intersecção por fase de requerimento   | FASE | mineracao | area | pct | | --- | --- | --- | --- | | AUTORIZAÇÃO DE PESQUISA | 264 | 630 436.14 | 39.5% | | REQUERIMENTO DE LAVRA GARIMPEIRA | 122 | 343 729.29 | 21.5% | | REQUERIMENTO DE PESQUISA | 115 | 182 659.12 | 11.4% | | APTO PARA DISPONIBILIDADE | 68 | 161 665.91 | 10.1% | | DISPONIBILIDADE | 72 | 141 953.65 | 8.9% | | CONCESSÃO DE LAVRA | 33 | 60 905.27 | 3.8% | | REQUERIMENTO DE LAVRA | 41 | 60 801.79 | 3.8% | | DIREITO DE REQUERER A LAVRA | 8 | 8 977.13 | 0.6% | | LAVRA GARIMPEIRA | 2 | 3 648.67 | 0.2% | | LICENCIAMENTO | 13 | 383.42 | 0.0% | | REQUERIMENTO DE LICENCIAMENTO | 4 | 151.49 | 0.0% | | REGISTRO DE EXTRAÇÃO | 2 | 5.20 | 0.0% | | REQUERIMENTO DE REGISTRO DE EXTRAÇÃO | 1 | 4.45 | 0.0% | |

## Status do projeto de carbono

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| Tabela 9: Área de intersecção por status do projeto   | status | projetos | area | pct\_area | | --- | --- | --- | --- | | Registered | 14 | 637 315.0 | 40.5% | | Withdrawn | 8 | 318 499.5 | 20.2% | | On Hold | 5 | 136 221.8 | 8.7% | | Under validation | 5 | 124 468.8 | 7.9% | | Registration requested | 12 | 109 684.4 | 7.0% | | Registration and verification approval requested | 9 | 93 890.5 | 6.0% | | Rejected by Administrator | 1 | 70 331.7 | 4.5% | | Registration requested denied | 1 | 44 062.4 | 2.8% | | Inactive | 2 | 30 024.8 | 1.9% | | Under development | 6 | 7 300.1 | 0.5% | | Registration request denied | 1 | 1 483.0 | 0.1% | | Retired | 3 | 120.4 | 0.0% | | Validation | 2 | 7.2 | 0.0% | | Certified | 4 | 3.7 | 0.0% | | Suspended | 1 | 0.0 | 0.0% | |

## Datas

* [68 projetos de carbono](https://docs.google.com/spreadsheets/d/1MClu8UinIoJNutZ0pt0YBkZ4W1Ni3h7hCsFjX_p99yg/edit?gid=1997971944#gid=1997971944) (93%) têm data posterior à área de mineração
* 208 (28%) [processos de mineração](https://docs.google.com/spreadsheets/d/1MClu8UinIoJNutZ0pt0YBkZ4W1Ni3h7hCsFjX_p99yg/edit?gid=986656238#gid=986656238) com intersecção de projetos de carbono foram instalados depois do início de projetos de carbono

## Áreas degradadas

* Dentre os 73 projetos identificados com alguma sobreposição com áreas de mineração, 37 apresentaram áreas degradadas em 2024, segundo dados do Imazon, sendo que em 28 dos projetos a área degradada é superior a 100 hectares ([Tabela 10](#tbl-deg))
* No total, são 103 907 hectares degradados em áreas que em teoria deveriam ser preservadas, por estarem no período de vigência dos projetos

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| Tabela 10: Área degradada (ha) em projetos de carbono   | id\_projeto | nome\_projeto | area | area\_projeto\_hectares | pct | | --- | --- | --- | --- | --- | | 137 | Joao Bravo REDD+ Project | 35 134 | 328 421 | 10.7% | | 139 | Juina REDD+ Project | 18 115 | 288 737 | 6.3% | | 4142 | Serenity Valley REDD Project | 14 707 | 52 425 | 28.1% | | 1118 | Suruí Forest Carbon Project | 8 650 | 247 802 | 3.5% | | 1503 | RESEX Rio Preto-Jacundá REDD+ Project | 4 095 | 100 942 | 4.1% | | 136 | Rio Catete REDD+ Project | 2 576 | 378 576 | 0.7% | | 133 | Rio Curua REDD+ Project | 2 534 | 389 185 | 0.7% | | 2558 | ABC Norte REDD Project | 2 511 | 145 777 | 1.7% | | 3334 | Projeto Marajó REDD+ | 2 050 | 175 208 | 1.2% | | 4681 | Ybyrá REDD+ Project | 1 952 | 76 397 | 2.6% | | 1811 | Jari/Pará REDD+ Project | 1 773 | 908 550 | 0.2% | | 3601 | CAAPII REDD+ PROJECT | 1 087 | 33 900 | 3.2% | | 2508 | UNITOR REDD+ Project | 977 | 94 006 | 1.0% | | 129 | Rio Crepori REDD+ Project | 939 | 397 631 | 0.2% | | 2709 | Juruena River REDD+ Project | 840 | 48 952 | 1.7% | | 3141 | Western Amazon | 754 | 91 706 | 0.8% | | 832 | CIKEL BRAZILIAN AMAZON REDD APD PROJECT – AVOIDING PLANNED DEFORESTATION | 752 | 208 277 | 0.4% | | 4042 | Cauaxi REDD+ Grouped Project | 635 | 58 779 | 1.1% | | 2252 | Rio Anapu-Pacaja REDD Project | 555 | 164 967 | 0.3% | | 144 | Rio Maicimirim REDD+ Project | 554 | 229 424 | 0.2% | | 142 | Rio Presidente Medici REDD+ Project | 430 | 147 081 | 0.3% | | 135 | Rio Bau REDD Project | 394 | 375 488 | 0.1% | | 977 | RMDLT Portel-Para REDD Project | 387 | 194 534 | 0.2% | | 1571 | Projeto REDD+ Manoa | 387 | 73 149 | 0.5% | | 131 | Rio Teles Pires REDD+ Project | 340 | 392 176 | 0.1% | | 2482 | Boa Fé REDD Project | 207 | 433 516 | 0.0% | | 125 | Ipixuna REDD+ Project | 177 | 210 023 | 0.1% | | 4886 | Projeto REDD+ TATUY | 172 | 22 740 | 0.8% | | 4850 | Amazonas APD Grouped Project | 59 | 26 061 | 0.2% | | 1654 | Fortaleza Ituxi REDD Project | 57 | 46 592 | 0.1% | | 4265 | REDD+ Café Apuí Agroflorestal (CAA) | 34 | 3 707 | 0.9% | | 1115 | Jari/Amapá REDD+ Project | 30 | 66 126 | 0.0% | | 1953 | The ARC REDD+ Project | 25 | 53 293 | 0.0% | | 3152 | Alto Xingu Grouped REDD+ Project | 11 | 18 439 | 0.1% | | 4034 | Agropalma REDD+ Project | 5 | 51 922 | 0.0% | | 4542 | Amazônidas REDD+ AUDD Grouped Project | 4 | 265 085 | 0.0% | | 1329 | Maísa REDD+ Project | 3 | 30 017 | 0.0% | |

## Desmatamento (Prodes)