



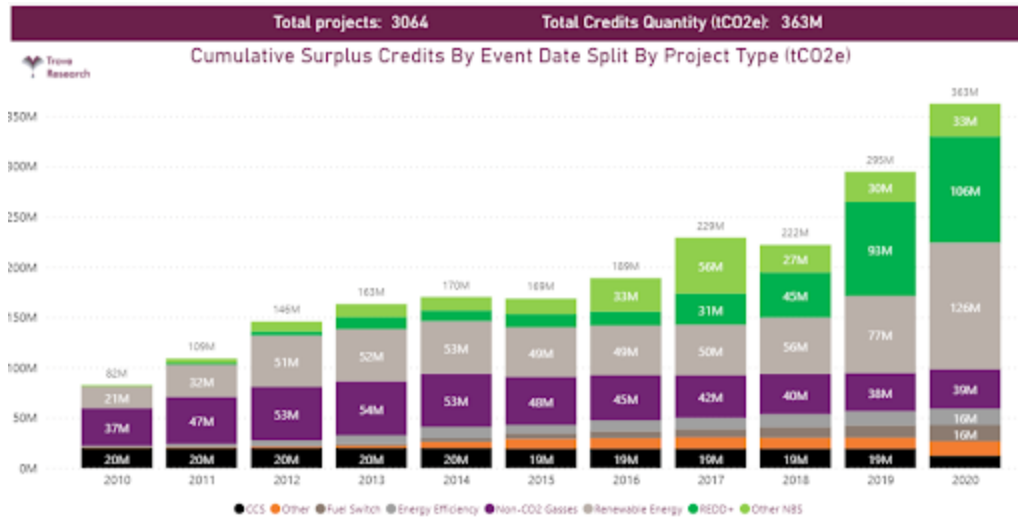
Five stories from new voluntary offsets data

The recent uptick in interest for voluntary offsets invokes certain [concerns](#), but it also comes with a few benefits. One of these is the push for more transparency. A new public database tracking information about voluntary offsets from the four largest standards was launched by [Trove Intelligence](#). It adds to similar platforms such as those maintained by [Climate Focus](#) and [AlliedOffsets](#).

Below are the five main lessons that this new data can teach us.

1. It's The Great Flood

The first lesson is that there is still a large supply of credits out there. Of all the voluntary units issued since offsets began being “a thing”, 44% are still available today. That’s over 360 million credits, or four times the number of offsets used in 2020, which was a record year. Not only is this high already, but the surplus is increasing. Concretely, this means that every year, there are more carbon credits issued than companies are using as part of their voluntary climate commitments.



Source: Trove Intelligence (2021)

What am I looking at? *This graph shows the accumulation of credits over time. These are credits that were created, but which nobody bought. It also shows which project types created these credits, e.g. forestry, renewable energy, etc. The last bar to the right shows the total number of credits available in 2020, broken down by project type.*

2. Somebody forgot to invite the LDCs

For all the talk about carbon markets channelling finance to the poorest countries, there is no LDC in the top 10 of countries that have most benefited from finance through offsets. The three countries from which the most credits have been sold are India (19% of all offsets used), the US (18%) and China (13%). The same countries, in the same order, are also the top three countries with the most offsets still available on the market.



Country	Credits Quantity
India	84,762,800
United States	78,999,293
China	57,939,976
Turkey	24,984,412
Brazil	22,706,663
Colombia	20,817,736
Indonesia	19,729,633
Kenya	17,335,531
Peru	16,051,993
Zimbabwe	11,099,371
Germany	9,111,426
Thailand	8,245,774
Total	438,106,343

Source: Trove Intelligence (2021)

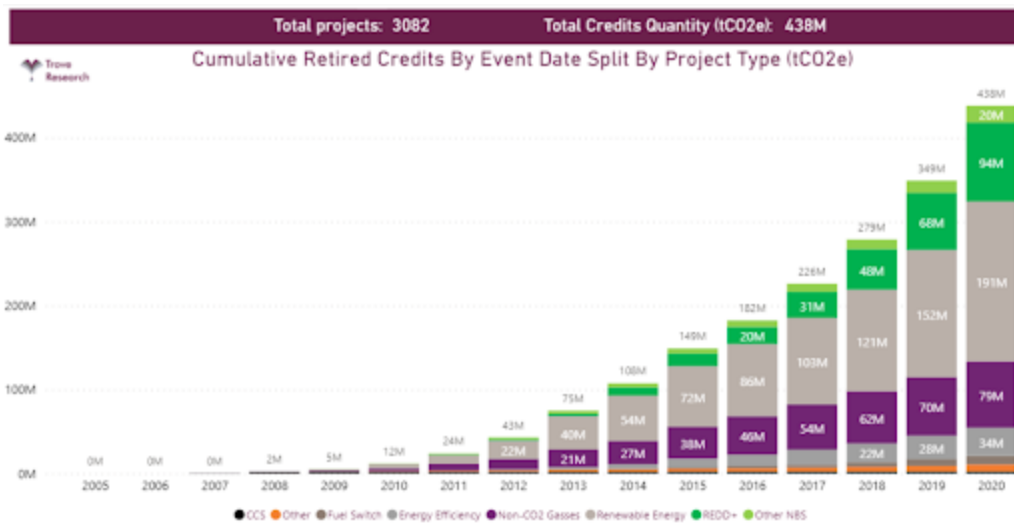
What am I looking at? *This table essentially answers the following question: where did the offsets used by companies come from? This means it does not rank countries by how many offsets they created, but rather by how many offsets created within their territory have been used by companies. Note that the governments themselves are not selling the credits, it is simply a way of showing where the emission reduction activities for which offsets were sold are taking place.*

3. Speaking trees to power

The most widely used types of offsets are from the power and land-use and forestry (LULUCF) sectors, more specifically from renewable energy and avoided deforestation (REDD+) projects. Together, they account for 65% of all credits used until now – with 44% coming from renewable energy, and 21% from REDD+. This is consistent with the fact that these project types represent a dominant share of all issued offsets to date.



Many renewable energy credits were issued by old projects, as large-scale renewable electricity projects were able to create large volumes of credits. These projects are no longer eligible to register with the main voluntary market standards. REDD+ and other land-use credits, on the other hand, are becoming more and more popular, despite their significant shortcomings related to measurement uncertainties and the lack of permanence.



Source: Trove Intelligence (2021)

What am I looking at? *This graph shows the accumulation of used credits over time. As time passes, more and more credits have been used by companies. The last bar in 2020 shows all the credits which have been used to date, broken down by project type.*

4. Best before: see packaging

It’s clear that there are still many old credits available for sale. But one popular argument against regulation continues to be that “the market” will self-regulate. Is it happening? No.

In 2020, half of the credits used were at least 5 years old. Going forward, the idea of setting expiry dates on carbon credits needs to be more seriously considered.

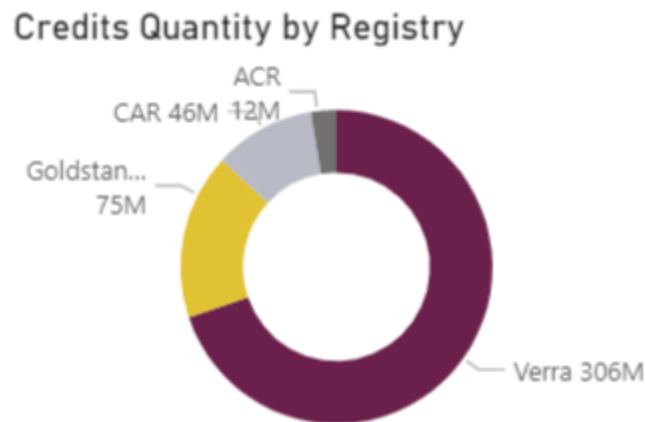


Source: Trove Intelligence (2021)

What am I looking at? *This graph shows what share of offsets used in 2020 was older than a certain age. For example, the share in 2015 is at 48%, which means that 48% of credits used in 2020 were for emission reductions that happened in 2015 or earlier.*

5. One standard to rule them all

Hopefully, this is just a bad title, as diversity and healthy competition are needed to raise the level of quality of carbon credits. But today, the US-based Verra by far dominates the market. Nearly 70% of all offset credits used until now have been issued by Verra. Gold Standard comes in second with only 17%. The other two North American standards covered in this database issue a similar volume of units to that of Gold Standard, but most are used for compliance in California, rather than as voluntary offsets.



Source: Trove Intelligence (2021)

What am I looking at? *This chart shows how many of the offsets used by companies up to 2020 were created under a certain standard.*

Conclusion

The main lesson to take away from this is that the voluntary carbon market is still not really delivering on its objectives. The poorest countries have not significantly benefited from the system. In addition, a large number of offsets used by companies are old and come from large-scale projects with questionable additionality/vulnerability and permanence. Finally, the dominant position of a single standard that is supposed to guarantee the integrity of the system means that a lot of responsibility is shared among a few people. This could risk the stability and reputation of the system especially if it was to grow significantly.

Going forward, private sector finance has a crucial role to play, and carbon credits could play a role in channelling this finance. But some elements of the voluntary market need to be reformed, and [alternative claims](#) to offsetting must be encouraged and adopted.

Technical clarification on the data

All the numbers presented here were drawn from the Trove Intelligence database which collects information from the registries of the VCS, CAR, ACR, and GS. These numbers were cross-checked for consistency with those of the Climate Focus database, where possible. The Trove Intelligence database

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includes units issued by AGR and CAR for use under the California cap-and-trade, but clearly separates cancellations (units used for compliance) from retirements (units used for voluntary purposes). All references to “uses” of offsets in this article relate to retirements, i.e. voluntary uses, because cancellations are not part of what is commonly considered the voluntary market.