

Emerging market companies hold the key to our climate future





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In 2015, the year of the COPS21 conference in Paris, the global level of CO2 emissions reached 35.21 billion tons. In December that year, the Paris Agreement was signed, setting out a global framework to avoid dangerous climate change by limiting global warming to well below 2°C compared to the pre-industrial levels.

By 2019, global annual CO2 emissions reached the highest mark ever - 36.44 billion tons, representing a 3.5% increase from 2015. Using CO2 emissions data from the S&P Global Trucost, which estimates the hidden costs of unsustainable use of natural resources by companies, we calculated that the top 100 emitting companies in 2019 were responsible for 21% of global CO2 emissions. That's just based on their direct (Scope 1 & 2) emissions, but if we were to include emissions caused by their products (Scope 3), that would yield a much higher percentage.¹

¹ A report by CDP published in 2017 estimates that 71% of global CO2 emissions are caused by 100 companies and individual economies. Whilst the methodology to reach this number is debatable, the report still provides useful insights into the fact that a limited number of companies are responsible, directly or indirectly, for the bulk of global emissions. Griffin Dr. Paul, "CDP Carbone Majors Report 2017"

Clear divide emerging in CO2 reduction efforts

In the run up to the COP26 conference in Glasgow, many have denounced the overall lack of progress and some have accusing ESG-focused investors of promoting sustainable goals while simultaneously investing in companies responsible for the ongoing increase in CO2 emissions.

However, a dispassionate look at how individual companies have progressed since COP21 in 2015 shows clear divergence between developed and emerging market companies. Where investors have had their say, progress has happened. It also shows the limits of investor influence on the companies that are responsible for the bulk of global CO2 emissions, especially when those companies are state-controlled or not publicly listed.

Why 2019 numbers?

In 2020 global CO2 emissions went down by 4.5%² as the global economy contracted by 4.3%. The International Monetary Fund forecasts that global GDP will grow by 6% in 2021³. The catch up in global production will most likely be accompanied by a corresponding increase in global CO2 emissions. It is therefore not unreasonable to use 2019 figures to estimate where the largest emitters are likely to stand by the end of 2021 in terms of emissions.

² BP Statistical Review of World Energy 2021 | 70th edition.

³ International Monetary Fund, "World Economic Outlook Update", July 2021

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The worst CO2 record: EM governmentcontrolled companies

In the course of four years between 2015 and 2019, the ten worst contributors we identified in emerging economies (EE) increased their CO2 emissions by between 11% (Gazprom) and 355% (PetroChina). Only one company within that top ten, ArcelorMittal, reduced its emissions.

Figure 1: Top ten CO2 emitters from emerging economies

| Tons CO2 | 2019 | 2015 | Change |
|--|-------------|-------------|--------|
| Datang International Power Generation Co., Ltd. | 587 106 275 | 137 441 133 | 327% |
| Huaneng Power International, Inc. | 336 301 405 | 289 096 077 | 16% |
| GD Power Development Co.,Ltd | 302 802 408 | 132 339 333 | 129% |
| Korea Electric Power Corporation | 262 465 187 | 217 509 481 | 21% |
| China National Building Material Company Limited | 261 126 843 | 85 083 888 | 207% |
| NTPC Limited | 247 714 224 | 217 800 853 | 14% |
| Public Joint Stock Company Gazprom | 245 539 103 | 227 262 585 | 8% |
| Anhui Conch Cement Company Limited | 199 760 329 | 73 443 923 | 172% |
| ArcelorMittal | 184 817 270 | 194 155 087 | -5% |
| PetroChina Company Limited | 174 080 000 | 38 225 204 | 355% |

Source: S&P Global Trucost as at 2019

In total, the ten companies we identified are responsible for 2.8 billion tons of annual CO2 emissions, which is about the same as annual emissions of all of the 27 EU member states combined.

However, while the developed world's ten largest CO2 contributors reduced the level of their emissions by 17% between 2015 and 1029,the top ten emerging market CO2 contributors increased theirs by 58%.



Figure 2: The worst 100 CO2 polluters globally

Source: S&P Global Trucost as at 2019

The Bad 100

In total, the worst 100 CO2 polluters globally increased their emissions by 1.3 Gt, which is almost as much as the total emissions of France, the UK and Germany combined in 2019. We consume more fossil energy every year, and that is what ultimately matters for climate change. These 100 companies emitted as much CO2 as resulted from all human activities in the United States and Russia in 2019. These figures alone prove when it comes to CO2 emissions, the most important greenhouse gas (GHG), a small number of companies, making products we can't get enough of, play a very significant role.

These figures also illustrate the wide disparity between regions. Companies based in emerging economies increased their emissions by an average of 46%, while those based in developed economies, mostly North America, Europe and Japan, reduced their emissions by 14% over the same period. In other words, some of the Western companies most often mentioned as lagging in progress to reach the Paris Agreement objective have already begun to shift their business towards less carbon intensive activities.

| Tons CO2 | 2019 | 2015 | Change |
|---|-------------|-------------|--------|
| Holcim Ltd | 128 276 789 | 180 374 930 | -29% |
| Exxon Mobil Corporation | 120 000 000 | 125 989 600 | -5% |
| Nippon Steel Corporation | 99 589 627 | 98 115 043 | 2% |
| Tokyo Electric Power Company Holdings, Incorporated | 99 287 717 | 97 316 731 | 2% |
| RWE Aktiengesellschaft | 96 505 452 | 153 600 003 | -37% |
| The Southern Company | 91 644 213 | 102 012 505 | -10% |
| Duke Energy Corporation | 85 541 828 | 109 626 101 | -22% |
| Royal Dutch Shell PLC | 80 621 630 | 80 999 835 | 0% |
| American Electric Power Company, Inc. | 79 297 150 | 116 103 735 | -32% |
| HeidelbergCement AG | 79 023 255 | 58 743 768 | 35% |
| Enel SpA | 75 347 277 | 122 091 940 | -38% |

Figure 3: Top ten CO2 emitters from developed economies

Source: S&P Global Trucost as at 2019

If we look at CO2 emissions at the company rather than country level, out of 43 developed market companies within the top 100, only 17 saw an increase in their combined Scope 1 & 2 emissions since the COP21. By comparison, 41 out of 57 companies from emerging economies saw an increase.

A case for tougher EM engagement

For investors, the lesson is clear: to make a significant dent in global CO2 emissions, much more attention must be placed on emerging market companies. These companies, and the governments backing them, hold the key to our climate future. Such influence can either be exerted directly, through corporate engagement, or indirectly, through investment from developed economies in Paris aligned businesses.

Example 1: Out of the 167 companies currently targeted by the Climate Action 100+ collective engagement initiative, only 35 of them are based in emerging economies.

Example 2: 956 companies have set for themselves science-based greenhouse gas reduction targets. Amongst them 173 US based companies, but only 9 based in China and none in Russia.

In other words, many of the companies most responsible for today's CO2 emissions and for the rise in emissions since the COP21 are out of reach or out of scope of the largest collective initiatives on climate. Even if some of the highest CO2 emitting companies in emerging economies are out of reach for traditional investors, some are listed on various stock exchanges. Also, most of the worst CO2 emmitting countries issue sovereign bonds that are purchased by international asset managers, creating opportunities for dialog and engagement to promote change.

Since a small number of companies are responsible for a large chunk of emerging economies' CO2 emissions, they are disproportionally exposed to regulatory risks. If and when governments in emerging economies adopt more ambitious measures to limit CO₂ emissions, these companies will be the first to be impacted. And since these companies' CO₂ emissions are intimately correlated with their country's economic growth, one can understand why reducing absolute levels of CO2 emissions is hard. Coal, steel and power generation companies currently represent a one way bet on their country's ability to keep their growth rate in positive territory, despite the environmental toll caused. The recent Chinese government orders to its coal industry to boost capacity in order to support economic growth⁴ provides ample illustration of this conundrum.

Finally, investors should also pay attention to how large CO₂ emitters, especially in developed markets, intend to reduce their emissions. There is a difference between reducing emissions through asset disposal and reducing emissions through improving CO₂ and energy efficiency at production level. If the high CO₂ emitting assets are simply moved from one company balance sheet to another less visible or scrupulous entity, there will be no overall CO₂ reduction. If a range of efficiencies are adopted at production level to reduce CO₂, that will, in turn, lead to reduction in emissions.

⁴ Financial Times, "China orders coal miners to boost output to counter energy crunch", October 8th 2021.



No piggybacking on Western climate efforts

Some ESG investors have been, perhaps rightly, criticised for setting their environmental criteria too low relative to the global CO2 emission trajectories. However, what this criticism ignores is that many of the worst CO2 emitters are currently out of reach of most mainstream European and US investment managers. Many are not publicly listed, and the few that are do not allow room for active engagement with their investors. Although still not aligned with a two degree (let alone 1.5-degree) scenario a number of companies in developed economies have started to shift their focus to low carbon solutions.

For investors, having woken up to their ability to drive change on environmental goals, the next step is to exert that influence carefully and not push these highly visible companies to sell their dirty assets to less visible, less scrupulous investors. In this area, like other climate change related areas, governments have a role to play to ensure a level playing field so all companies' impacts are accounted for and every company held accountable for their role in climate action.

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