

Study suggests major chemical corporations hide most polluting activities in subsidiaries

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Credit: Pixabay/CC0 Public Domain



According to the EPA's <u>Toxics Release Inventory (TRI)</u>, chemical manufacturing is one of the U.S.'s three largest polluters, along with metal mining and electric utilities, which together account for two-thirds of the country's toxic releases.

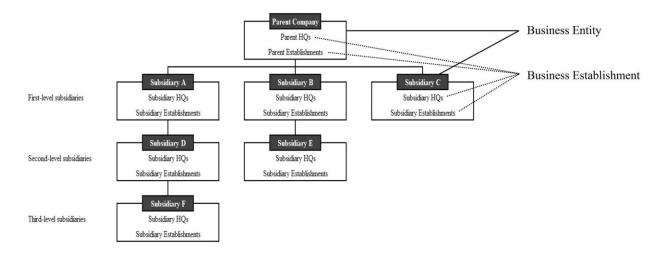
Yet a <u>recent study</u> suggests that many of the top chemical companies shield themselves from environmental penalties behind a foundational element of business law: subsidiaries. According to the study published in the *Strategic Management Journal*, adding a single layer of corporate hierarchy was associated with a 39% increase in the degree of toxic emissions.

"The multi-layered structure permits parent companies to buffer themselves from the negative legal, reputational, and punitive outcomes related to risky activities and, thereby, shift the costs to the society as a whole," said Juyoung Lee of the Hong Kong Polytechnic University, one of the study's authors.

Lee, with co-author Pratima Bansal of Ivey Business School in Canada, analyzed 7,400 U.S.-based businesses owned by the 67 largest chemical manufacturing groups headquartered in America. The study examined actual business establishments, from low-polluting administrative locations to high-polluting industrial ones.

By combining information from Dun and Bradstreet's Corporate Family Tree Data and the EPA's TRI program, among other sources, the authors pinpointed where the highest polluting sites fall in their corporate structures. Overwhelmingly, they were hierarchically distant from parent companies.





An example of corporate group with multiple subsidiary layers. Terms and definitions. (1) Corporate group: Corporate group refers to a whole set of the parent company and its subsidiaries. (2) Business entity: A single legal form of the corporation. This is a legal concept that refers to a corporate organization that has separate and distinct legal rights and responsibilities. This could be either parent companies, subsidiaries, or independent firms that are not affiliated with other business entities. (3) Business establishment: A single physical location at which business activities are performed. A company (or a business entity) consists of one or more business establishments operating in different geographic places. For example, a parent company may have one business establishment if the parent company does not have branches in other geographic places. Or the parent company may have multiple business establishments, which includes one headquarters (i.e., what we call parent headquarters) and one or more branches (i.e., parent establishments). This geography-based definition of business establishments is offered by the US Census. Credit: Strategic Management Journal (2024). DOI: 10.1002/smj.3582

"The lower pollution-intensive activities are in the corporate hierarchy, the more effectively the parent company can protect itself from government-related risks," Bansal said. "When the subsidiary is farther down the hierarchy in a more complex organizational structure, it's more difficult to prove a parent company's active participation. It's easier to



justify its ignorance."

The study tested the possible strategic nature of liability buffering by looking at whether the environmental standards in the parent company's home state affected where polluting sites fell in the corporate structure. The data showed that the stricter the regulations at home, the greater the buffer between parent companies and their polluting sites in the corporate structure.

"When parent companies were headquartered in weak environmental states, the probability of the high polluting sites being among lower-level subsidiaries was almost the same as them being part of the parent organization," Lee said. "For those headquartered in strong environmental states, the probability grew with every step in the hierarchy away from the <u>parent company</u>."

While this association does not overtly prove companies are using subsidiaries to hide from pollution penalties, it certainly demonstrates that strategic buffering is part of the story. It also illustrates that the foundational element of U.S. corporate law—the corporate veil—inhibits environmental regulation enforcement. Government regulations that fail to consider corporate structures may simply result in the harm being hidden, not reduced.

More information: Juyoung Lee et al, Sweeping it under the rug: Positioning and managing pollution-intensive activities in organizational hierarchies, *Strategic Management Journal* (2024). <u>DOI:</u> 10.1002/smj.3582



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