

Study Results

Table 1: Average savings by assistance and waste reduction type

	Number of clients	Average indirect (\$/yr)	Average direct (\$/yr)
All clients	20	8400	6800
Industry	10	10,400	8700
Small Business	10	6400	4700
Hazardous waste reduction	9	16,600	13,000
Non-hazardous waste reduction	3	4000	3300

- A variety of indirect benefits often resulted from implementing P2 suggestions. Approximately 37% of implemented P2 suggestions had health, safety and/or preventative benefits with financial gains that were not captured by surveys and short reassessment interviews, but that were found in this study to be significant for the client.
- Seventy percent of clients who implemented P2 suggestions reducing hazardous waste generation, improving employee safety, or addressing illicit waste discharges observed notable reductions in future liability cost projections.
- Regardless of the scale or complexity of assistance projects, on average, clients tended to realize indirect savings that are of a similar magnitude to direct savings.
- Most clients perceived that P2 technical assistance saved their staff time.

Reference:

Youngblood, D. J., Dvorak, B. I., and Hawkey, S. (2008b), "Indirect benefits of P2 technical assistance estimated using fuzzy set theory." *Journal of Cleaner Production*, 16(6), 771-779. [doi:10.1016/j.jclepro.2007.02.017](https://doi.org/10.1016/j.jclepro.2007.02.017)