

## Hazardous Waste Recycling: No Justification for Toxic Trade

Very quickly following the first international toxic waste trade scandals that took place in the late 1980s and early 1990s, the environmentally friendly word “*recycling*” was increasingly used by waste traders to justify the export of hazardous wastes from rich to poorer countries. Today, this rationalization continues with virtually all current hazardous waste trade, legally or illegally, said to be exported for recycling. These recycling exports range from industrial wastes, post-consumer wastes such as old computers, to even asbestos laden seagoing vessels.

### Basel Convention Bans Exports for Recycling to Developing Countries

In 1994, the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal banned all exports of hazardous wastes for final disposal *and recycling* from developed to developing countries. The Parties to the Convention included recycling in the total ban due to the knowledge that export of hazardous waste for recycling from developed to developing countries, works in contradiction to the obligations of the Basel Convention. These obligations include the achievement of national self-sufficiency in hazardous waste management and environmentally sound management of wastes through waste prevention.

The concerns that necessitated the ban are not limited to merely the technical capacity of a facility operating in developing countries but extend to one of the primary objectives of the ban – providing incentives to manage hazardous waste via upstream solutions of clean production and toxics use reduction, rather than through downstream approaches of recycling and disposal. By eliminating cost externalities made possible by free trade in wastes to developing countries, the waste crisis is more appropriately solved at source through green design and clean production.

### Sham and Dirty Recycling

Waste trade for recycling as witnessed in developing countries falls into two categories. It will either be “*sham recycling*” where wastes are not really recycled at all, but simply burned or dumped, or “*dirty recycling*” which involves polluting operations that jeopardize the

health of the importing country’s populace and environment. Most often, both types of recycling are involved as it is rare indeed when 100% of a waste stream can be recycled. In fact, with some waste streams large proportions of the wastes are simply dumped. Either one of these recycling scenarios – *sham* or *dirty*, or a combination of the two – equates to a transfer of pollution from rich to poor countries.

### A Polluting Enterprise Anywhere

It is not often realized, but unlike the recycling of *non-hazardous* wastes, such as paper, rags, scrap steel, etc., *hazardous waste* recycling even in the best of circumstances, is inevitably a polluting enterprise to some degree. Even in state-of-the-art facilities, hazardous waste recycling will involve exposing workers to hazards, and/or producing toxic residues or emissions. While a majority of these residues may be captured via costly and maintenance-intensive end-of-pipe engineering, they then must be disposed of as hazardous waste somewhere. Developing countries most often lack this downstream residual management.

Historically, hazardous waste recycling has proven to be an environmental nightmare even in rich developed countries. For example, a full 11% of US Superfund priority sites that were required to be cleaned up at enormous costs were caused by recycling operations. And it’s not just an historical problem. For example, in the US, existent secondary metals smelters are notorious polluters and that is the reason no new smelters are being planned for the US. Thus highly polluting secondary industry such as smelting is migrating to poorer countries where pollution regulations are more lax or less enforced and costs can be readily externalized.

Further, many toxic problems created by recycling operations remain ignored by regulators. Among these concerns are highly toxic dioxins and furan compounds created by secondary metal smelters, and secondary plastics melting and shredding operations that release brominated flame retardants. Other problems that have not been adequately assessed just from electronic waste are beryllium and mercury releases.

### Special Problems in Developing Countries

It is clear that even in the United States and other rich industrialized countries where the technological level is high and the infrastructure and resources exist to monitor and maintain the highest standards, it is still not possible to prevent pollution from hazardous waste recycling. So how can we ever justify export of that same pollution to developing countries where the possibility to mitigate the impacts are even less?

In developing countries, the hazardous waste recycling becomes even deadlier than what is experienced in developed countries. This is not simply a matter of a lack of adequate technology but involves many additional factors that might be taken for granted in developed countries. Social, financial and infra-structural factors are at least as important to protecting the populace and environment as technical criteria. These factors include adequate legislation, resources, manpower, and political will, to enforce such legislation, including monitoring and inspecting operations. It involves infrastructure to provide emergency response, adequate roads and services to ensure safe transport, and adequate medical facilities to monitor worker and community health. It involves the public and workforce having democratic capability to redress environmental and occupational concerns and to be able, if necessary, to protest hazardous working or living conditions. It is naive to expect most of these factors to adequately exist in the developing world as they are a function of societal wealth.

## **An Affront to Environmental Justice and Clean Production**

Toxic waste exports justified by recycling are now one of the biggest threats to the overarching goals of global environmental justice and in fact the implementation of clean production. The principle of environmental justice asserts that no people should bear a disproportionate burden of environmental problems by reason of race or economic status, particularly when those people do not benefit from the products that created the pollution in the first place. Not only does waste trade under the name of recycling victimize the poor simply because they are poor, but it creates a disincentive to achieving true waste prevention and minimization. As long as the cheap and dirty avenue of export is available, there will be little incentive for upstream efforts to make products more long-lived, more recyclable, and without toxic inputs.

## **Mining v. Recycling?**

Often we have heard export for recycling justified by comparing it head to head with environmental damage from mining. It is of course clear that mining is environmentally destructive, but it is hardly logical to compare one environmental evil to another with an assumption that our choices are limited to the two terrible options. In order to avoid destructive mining, we need to first, minimize and phase-out our use of toxic metals such as cadmium, lead, and mercury. The assumption that we should, and will continue to extract and use toxic metals and introduce and re-introduce them into the biosphere is a very dangerous one. When one recycles a hazard, one is left with a hazard; and is it not hazards that we are all trying to minimize? For those metals, which are non-hazardous, we must design easily recyclable products. For these, recycling is certainly preferable to mining. For hazardous wastes that already exist in our production and products, we may have no choice but to recycle them, but we do have a choice how and where that should be done – certainly not in a place where the harm is most readily externalized.

## **Cheap Resources for Developing Countries?**

We have also heard justifications for hazardous waste exports for recycling based on the reported need of developing countries to obtain cheap sources of certain raw materials, such as lead, that

might be obtained from imported hazardous waste sources such as lead-acid batteries from the USA. But it is vital to bear in mind *why* such sources are cheaper than obtaining already processed pure lead. It is cheaper because such operations are typically very difficult to operate without serious pollution. The cost differential then is largely a factor of externalizing environmental and health costs to developing countries. Further, such importation of such cheap sources of lead from rich, wasteful, developed countries, often leads to disincentives to perpetuate serious collection and recycling of materials such as lead from batteries in the importing country. In actual fact, despite the short-term economic gains that can be made from importing wastes, developing countries have repeatedly rejected this option in favor of long-term economic and ecological sustainability.

## **Take Back to Asia?**

We have sometimes heard argumentation that due to the fact that certain products such as electronics are increasingly manufactured in Asia, then export of these post-consumer waste materials back to Asia makes some kind of sense as if simply geographic proximity can “close-the-loop.” We have even heard justifications of waste export to Asia as a twist on the “take-back” producer responsibility argument. This argumentation is seemingly compelling, but falls apart quickly on closer examination. The mere fact that cheap labor and its associated lack of environmental standards and infrastructure is exploited *first* by a transnational company in the *extraction* of resources and then exploited again by an electronics manufacturer in the *production* of a product can absolutely not be a justification to *further* exploit that very same low-wage labor population again at the end-of-life *disposal* of that product. It is the height of cynicism to ask developing countries to bear the burden of the most polluting segments of a products life-cycle -- particularly when the benefits of most of the high-tech products are enjoyed *after* dirty extraction and manufacturing, and *before* dirty disposal, in rich developed countries. In order to minimize cross-boundary dumping and unnecessary transport, “take-back” must occur in the country of consumption and where the product becomes a waste.

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**The export of toxic wastes to poorer economies for recycling is an unacceptable transfer of pollution to those least able to afford it. It can only be justified by brute economics and not from a moral or environmental standpoint. Such trade leaves the workers in developing countries with a choice between poverty and poison - a choice nobody should have to make. Moreover, by allowing a convenient escape valve for rich consumptive societies and manufacturers, it stifles the innovation needed to truly solve our toxic waste problems through upstream “green” design and clean production. We must all do our part to reaffirm the Basel Convention commitment to ban this destructive trade.**

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