





IGES-SCP

Sustainable recycling business model



Common impressions to typical recycling business in developing countries

- Dirty
- Cheating
- Associated with crime
- High health risk
- Polluted environment
- Focus on monetary profit only
- Job of the poor
- etc

- Is it true?
- Does it change?
- How to change?



Contribution of the recycling business to the society

- 1) Solving constraints of local governments
 - Separation of recyclables from the waste stream
 - Reduce workload and budget of local governments on waste collection, transport and disposal
 - Saving landfill space and extend lifetime of landfill
- 2) Circulating recyclable materials to the production side, especially metals
- 3) Reducing greenhouse gas emissions by avoiding natural resource extraction, virgin material production and waste disposal

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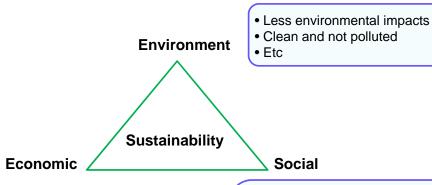
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How to make the recycling business be fully acknowledged and successful in the context of developing countries



- Profitable
- Possible to scaling up

- Improving working condition (health and social status)
- Creating job for disadvantage groups
- Creating recycling society: residents see recyclable waste as resources and participate in separation of recyclables
- Etc

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Example: Participatory recycling business model in Phitsanulok, Thailand

Municipality:

Initiator, Motivator, Facilitator, Regulator and Inspector



Sharing roles Waste buyers and sorting facility:

Active recyclable waste collectors, waste buyers and waste circulators

Motivate and encourage residents on recyclable waste separation for sale



Train waste pickers and itinerant waste buyers on environment, health, waste sorting techniques, etc

Residents

- √ Operate waste banks
- ✓ Join waste market events
- √Sell household waste



Waste pickers and buyers

- ✓ Act as volunteers for environments
 - √ Buy recyclables and sell sorting materials to recyclers

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Sustainable recycling business should benefits for all

- Earn more from larger quantity and variety of sellable waste
- Expand to international market

Municipality

- Reduce waste for disposal
- Reduce environmental impact
- Extend lifetime of landfill
- Reduce budget for WM
- Get more WM fee from residents

Waste sorting facility

Earn more from larger quantity and variety of sellable waste

Benefits for all

Residents

- Earn from selling waste
- Can pay waste fee to municipality

Junkshops -

- Work in better conditions
- Earn more from larger quantity and variety of sellable waste

Itinerant waste **buyers**

Waste pickers

- Work in better conditions (health and social status)
- Upgrade to itinerant waste buyers



Promoting sustainable recycling business in Asia

IGES in collaboration with EMC and other partners:

- Investigate and extract lesson learnt from Wongpanit recycling business model and other models in Thailand, India, China and Malaysia
- Identify barriers and driving factors of recycling business development in target countries
- Develop recommendations on how the establishment and development of an environmentally-socially-economically sound recycling business can be extended for encouraging the 3Rs implementation

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Thank You