

**ISWA World Congress 2013
Vienna**



**DECENTRALIZED AND INTEGRATED RESOURCE
RECOVERY CENTERS IN DEVELOPING COUNTRIES:**

**EXPERIENCES AND LESSONS LEARNT FROM QUY NHON,
VIETNAM**

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Background and context

Quy Nhon city

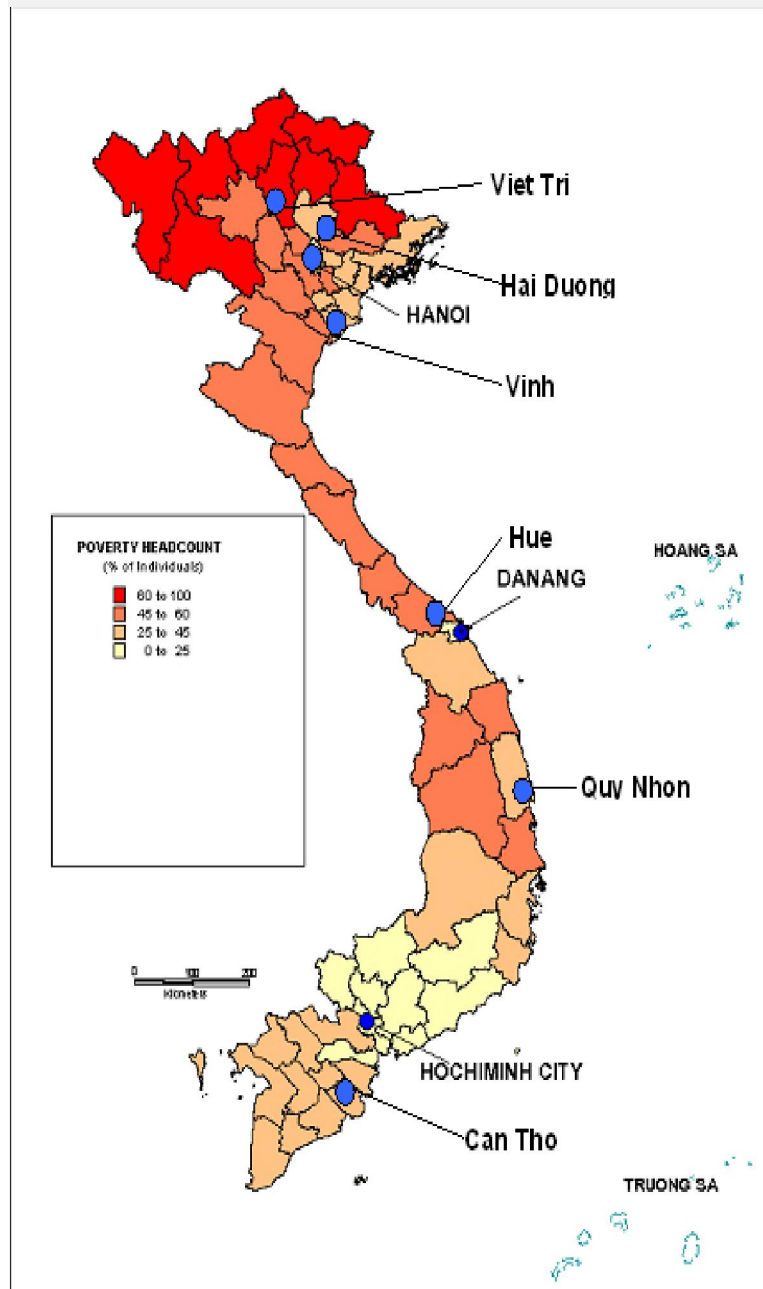
- Population: 300,000
- Area: 284 km²

Overview – Solid Waste Management

- Total waste generation: 216 tons per day
- Per capita waste generation: 0.72 kg per day
- Collection rate: 86%
- Organic waste: 61%

Main challenges

- Existing landfill to reach capacity and scarcity for land for additional landfills
- High budget spending on SWM with very little revenues derived
- Existing large scale compost plant operating way below capacity, processing mixed waste



IRRC Project in Quy Nhon, Vietnam

- A pilot IRRC was set up in 2007 in Nhon Phu ward of Quy Nhon city to process waste in a decentralized manner with community participation



IRRC, Nhon Phu



Compost bags, IRRC



Organic farm, IRRC

The IRRC in Nhon Phu:

- has a capacity to process 2-3 tons of solid waste per day
- provides waste collection services to the entire neighborhood covering 800 households, 2 small markets and commercial shops

IRRC Project Implementation

The IRRC project in Quy Nhon is implemented by ENDA Vietnam (NGO) with support from other partners.

PARTNERS

ENDA

People's
Commitee

UN ESCAP

WASTE
CONCERN

Key Responsibilites

- Community mobilization activities
 - Capacity building and training activities
 - Project implementation and monitoring in coordination with all relevant stakeholders
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- Provide land for IRRC
 - Regulations/directives for collection fee and source separation
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- Provide grant and technical support to implement the project
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- Provide technical designs and support for implementation and operation
 - Provide training to project staff and government officials

IRRC Operations

The IRRC in Quy Nhon is managed and operated by a workers cooperative. The operations are financially sustainable and the profits generated are shared between the workers.



Cooperative with
six female members



Income streams of the IRRC

- ✓ Sale of compost
- ✓ Sale of recyclables
- ✓ Collection fee

Packed compost
bags for sale



Waste sorting at source – Planning with communities participation

PRA survey and planning, Quy Nhơn



30/08/2013

Implementation of waste sorting at source with stakeholders participation

Set up communicators team and provide training

Conduct propaganda and Integrated behavior change communication (IBCC) activities

Waste sorting at non-household and household



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_6566

