



USAID
FROM THE AMERICAN PEOPLE



CASE STUDY

Access to Clean Water for the Urban Poor in Medan Labuhan District of Medan City : A Step toward 'Clean, Green, and Hygiene'

ESP and Jaringan Kesehatan Masyarakat, a local non-governmental organization together with Tirtanadi Water Utility provided access to water for more than 600 poor people in Labuhan Deli, Medan.

The Site : Young Panah Hijau is a village in downtown Medan, situated along the North coastal zone of Medan, with a large population of poor fishing families, partly living in simple houses on stilts above the water. Almost all are not connected to piped water and rely mainly on vendors to purchase their daily water needs. On average they consume 300 liter /day for an average cost of Rp 3,000 / day (= Rp 10,000 /m³), which is 15 times higher than the appropriate PDAM tariff group of Rp 630 /m³.

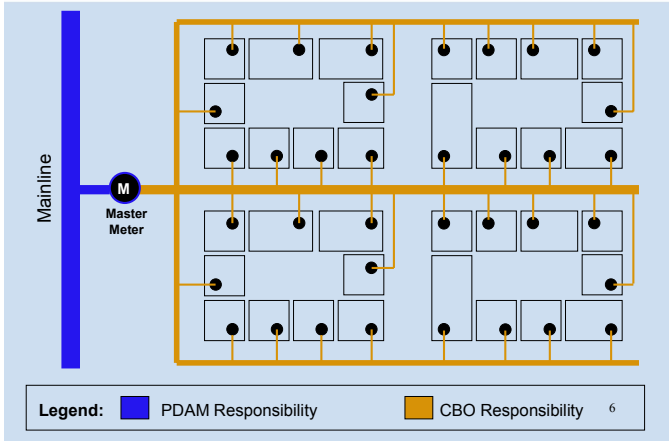
In Medan, ESP has been collaborating with PDAM Tirtanadi Medan and Jaringan Kesehatan Masyarakat (JKM) to develop piped water supply systems, piloting an innovative approach of collaboration between PDAM and community. Most unconnected poor households rely for their water on either contaminated shallow wells, or have to buy water either from their neighbors or water vendors, at a cost, normally more than 15 times the average PDAM tariff. However PDAMs are often hesitant or even resistant to increase access to piped water in these poor neighborhoods, because of problems related to illegal resident/land status and/or fear of water theft, leakages and inefficient water billing. The establishment of a community-based organization, responsible for a simple piped network system downstream of a bulk / master meter can alleviate all of the above problems and create a win-win situation for all parties.



JULIAN SYAH

What has been accomplished: *Community-NGO-Public Utility collaboration for a innovative 'hybrid' clean water system*

- ESP has provided technical support on system design, liaison and negotiation with the PDAM, training in environmental health, solid waste management, composting, hand washing with soap, and safe water treatment and storage
- Local NGO Jaringan Kesejahteraan/Kesehatan Masyarakat (JKM) to improve the quality of water and sanitation systems for urban poor Young Panah Hijau at Labuhan Deli village in developing a community-based clean water program.
- PDAM Tirtanadi provided support to increase access to clean water for the poor by installing a pipe and initial water taps. In this 'hybrid' system the PDAM supplies the water to the community, while the community itself organizes to manage water distribution and payment collection. A similar program was implemented in Sub district Medan Sunggal and Medan Maimun.



Director PDAM Tirtanadi symbolically handed over the water to the community.



Russ Dilts ESP Advisor “teping tawar” the Reservoir with capacity 4 m3 to serve over 150 households

for urban communities in Medan. The ‘hybrid’ system serves 100 household-level taps now for over 600 people living along the banks of the Deli River. The water originates from PDAM Tirtanadi and flows to a central meter, thereafter the distribution and payment system is organized and managed directly by the community. Before this program, less than five per cent of the community had access to piped clean water, relying on polluted shallow wells and the dark waters of the river.

This community based water supply system will be replicated to 6 villages in Belawan to serve over 3.332 households. The implementation will be in 2008 and funded by ESP, City Government of Medan, PDAM Tirtanadi and Cipta Karya Directorate of Ministry of Public Works..

What’s the longer term strategy? This work is the initial step in ESP’s “Clean, Green, and Hygiene” strategy that is also being pursued in other poor urban communities in Medan such as Sunggal. No progress in health and hygiene is possible before communities have access to clean water, hence ‘clean water security’ is the first step. As systems are developed and community capacities strengthened to run the distribution system, ESP provides training in a health and hygiene, solid waste management, composting, construction of community managed sanitary facilities, and environmental health and hygiene programs with a special emphasis on clean water preparation, use, and storage.

On 2nd Of November 2007, Director of PDAM Tirtanadi and Mission officer of the office of Basic Human Services- USAID Indonesia officiated at the launch of a community-based piped clean water system

For more information please contact:

Environmental Services Program

North Sumatra Province
 Jl. Slamet Riyadi No. 6
 Medan 20152, Sumatra Utara
 Tel: +62-61-453-1007
 Fax: + 62-61-451-2884

National/ DKI Jakarta
 Ratu Plaza Building, 17th Fl.
 Jl. Jend. Sudirman Kav. 9
 Jakarta 10270
 Tel: +62-21-720-9594
 Fax: +62-21-720-4546

www.esp.or.id