



**USAID**  
DARI RAKYAT AMERIKA

# NORTH SUMATRA

## The USAID Indonesia Urban Water, Sanitation and Hygiene *Penyehatan Lingkungan untuk Semua* (IUWASH PLUS) project

is a five-and-a-half-year initiative designed to assist the Government of Indonesia in increasing access to water supply and sanitation services as well as improving key hygiene behaviors among urban poor and vulnerable populations. USAID IUWASH PLUS works with governmental and donor agencies, the private sector, NGOs, communities and others to achieve the following "high level" results:

- An increase access to improved water supply service for 1,100,000 people in urban areas of which at least 500,000 are from the poorest 40% of the population (also referred to as the "bottom 40%" or "B40"); and
- An increase access to safely managed sanitation for 500,000 people in urban areas.

USAID IUWASH PLUS works with 35 Local Governments across Indonesia located in 8 provinces that includes North Sumatra, West Java, Central Java, East Java, South Sulawesi, Maluku, North Maluku and Papua, and 2 special areas in DKI Jakarta and Tangerang district.

In North Sumatra, USAID IUWASH PLUS works in five cities/districts located in Medan city, Deli Serdang district, Tebing Tinggi city, Pematangsiantar city and Sibolga city.



USAID IUWASH PLUS NORTH SUMATRA



**72,981 km<sup>2</sup>**

Is the area of North Sumatra province that has 25 districts, 8 cities, 444 sub-districts, 693 urban villages, 5,417 villages, and 419 islands.

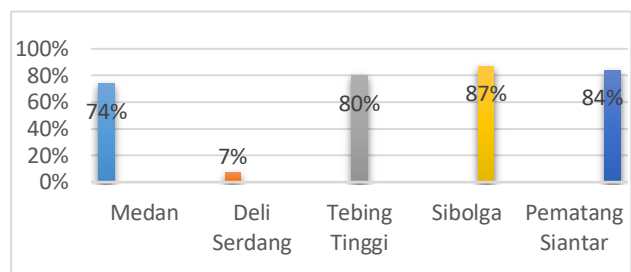


**14.73 million** is the population of North Sumatra province and it is the fourth province with the largest population after West Java, Central Java and East Java with the population growth rate is 1.22 % per year according to data released by Central Statistics Agency (BPS) of North Sumatra province (2017).

## Increasing Access to Water Supply

Based on the data from Bappenas (2016), the access to improved water supply access in North Sumatra province currently has reached 67.0%, slightly lower than achievement of the national water supply access (70.97%). Recently, North Sumatra province has 18 Municipal Drinking Water Companies (PDAM) operating at the district/city level. Among the five PDAM service areas, which receive assistance from USAID IUWASH PLUS, Sibolga and Pematang Siantar cities have the highest water services, followed by Medan city and Deli Serdang district. Of 87,585 people in Sibolga city, 87% or equivalent with 76,293 residents have had water supply access from PDAM.

## PDAM Coverage in North Sumatra



\*Data of the BPPSPAM of the Ministry of Public Works and Housing, BPKP PDAM, and PDAM (2015)

**Note:** The service coverage of PDAM Tebing Tinggi is calculated based on the number of population in its technical service area, while the PDAM coverage in other districts/cities is counted based on the number of people in their respective administrative areas. The data of PDAM Sibolga coverage is based on its internal performance audit.

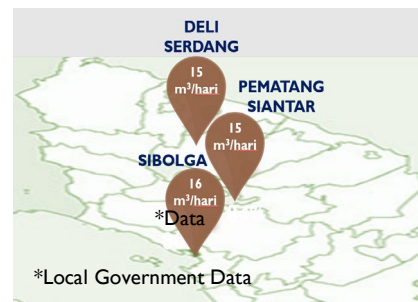
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## Improving Domestic Wastewater Management Service

Activities to improve the domestic wastewater management service include:

- Development of the offsite sanitation system for city scale in Medan has covered 4 percent of the total population of Medan city of equivalent with 2.5 million people (BPS, 2015)
- Through the grant provided by Local Government Budget (APBD), Medan city has constructed 2,400 individual septic tanks during the fiscal years of 2016 to 2019. The city has also built 53 communal wastewater treatment plants (communal IPALs) with capacity of 50 house connections each through the ADB SANIMAS program for the fiscal years of 2014-2019. Medan city has a septage treatment plant (STP) with capacity of 50 m<sup>3</sup>/day managed by PDAM Tirtanadi;
- During the Fiscal Year 2016-2019, Deli Serdang district has constructed 2.536 septic tanks, 80 communal IPALs with capacity of 50 house connections each, and a settlement scale-wastewater treatment plant with capacity of 200 house connections. Also, Deli Serdang has two conventional STPs, with capacity of 15 m<sup>3</sup> and 10m<sup>3</sup> respectively, as well as plans to build a new mechanic STP with capacity of 50m<sup>3</sup>/day;
- Communal IPALs for 50–75 households, individual septic tanks, shared septic tanks for 5-100 households were also built in other three USAID IUWASH PLUS supported cities, namely Tebing Tinggi, Pematangsiantar, and Sibolga cities;
- Promotion and mechanism of regular desludging service were developed in some USAID IUWASH PLUS assisted districts/cities. Medan city launched the desludging service and the domestic wastewater is managed by PDAM Tirtanadi. Deli Serdang also launched the desludging service; the service is operated by the local government working unit for domestic wastewater management (UPTD PALD) under the district office of housing and settlement. Sibolga and Pematangsiantar cities with assistance from USAID IUWASH PLUS plan to launch the desludging service in 2020.

### Capacities of STPs in North Sumatra



## USAID IUWASH PLUS Supports and Priorities for North Sumatra

Some of the main priorities of USAID IUWASH PLUS activities at the district and city level cover:

- Energy efficiency audit and management of Non-Revenue Water;
- Support for Spring Vulnerability Assessment and Action Plan (KKMA-RA) as well as capacity building and infiltration pond construction as the implementation of the KKMA-RA for Medan and Pematangsiantar cities;
- Support and promotion of safe septic tanks, individual septic tanks, communal/settlement scale-wastewater treatment plants through a synergy with STBM, KOTAKU, and IDB Pamsimas programs;
- Advocacy for the local governments to implement market-based sanitation approach, which includes smart subsidy;
- Facilitation of microcredit mechanism for water supply in Deli Serdang and for safe toilet construction in all USAID IUWASH PLUS supported districts in North Sumatra;
- Support the revitalization of STP and facilitate desludging service;
- Development of institution, regulation, management information system, SOP, and customer database of the UPTD PALD
- Technical assistance for the operators of domestic wastewater management (UPTD PALD and PDAM);
- Advocacy of WASH development planning model from bottom up through community encouragement and top down through technical assistance for the development of five year urban WASH programs.

For further information:

**USAID Indonesia Urban Water, Sanitation and Hygiene  
Penyehatan Lingkungan untuk Semua (IUWASH PLUS)  
North Sumatra Regional Office**

Jl. Majapahit No. 136 A Medan Baru, Medan 20153

Tel. + 62-61 457-7677

[www.iuwashplus.or.id](http://www.iuwashplus.or.id) - twitter @airsanitasi - [www.facebook.com/airsanitasi](http://www.facebook.com/airsanitasi) - ig @airsanitasi - [youtube.com/airsanitasi](http://youtube.com/airsanitasi)

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