

Merdeka 118, Kuala Lumpur




STREAM Delivers the Most Innovative Automated Waste Collection System for the 2nd World's Tallest Building.



ABOUT PROJECT

Merdeka 118, the tallest building in Malaysia, spanning 118 storeys and 400,000 square meters. The mixed-use skyscraper combines office spaces, hotels, retail outlets, and residential units, offering a dynamic urban environment. Known for its sustainability features, the tower is surrounded by green spaces and includes the highest observation deck in Southeast Asia.

STREAM integrates its Automated Waste Collection System (AWCS) into Merdeka 118 to manage the three core types of waste—general, paper, and food—enhancing the building's eco-friendly initiatives and waste management efficiency.

<p>3</p> <p>Fractions</p>  <p>Efficient Waste Handling of Different Waste Types</p>	<p>679</p> <p>Height of Development (m)</p>	<p>12.5</p> <p>Total Pipe Length (km)</p>	 <p>1 CENTRALIZED WASTE HANDLING FACILITY</p> 
	<p>24.7</p> <p>Tonnes of Waste Generation per day</p>	<p>24/7</p> <p>Automated Operation</p>	



Three World-Longest Vertical Systems Connected to a Single Centralized Collection Center.



General Waste (>800m pipe length)

- **Convenient Disposal:** Safe and user-friendly load station, multiple waste bags are easily disposed of through the chute.
- **High-Capacity Storage:** Temporarily stored in a Spiral Waste Bin designed for large volumes.



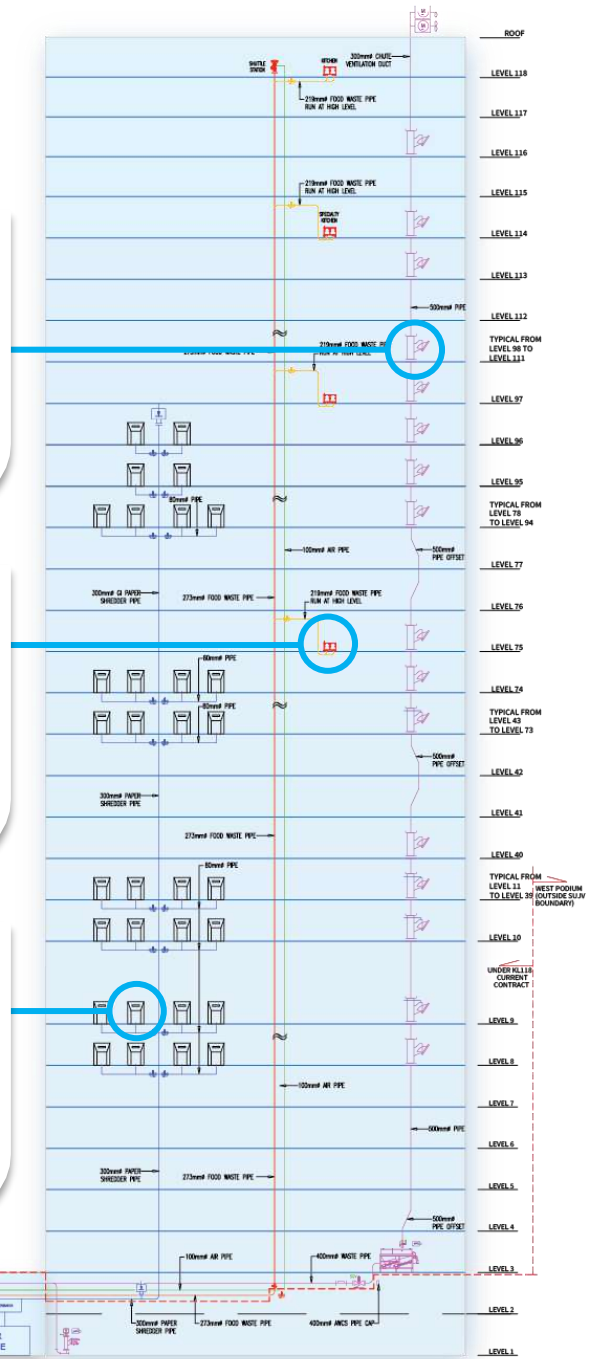
Food Waste (>700m pipe length)

- **Hygienic Disposal:** Designed for kitchen areas, it provides staff with an efficient and sanitary way to manage food waste.
- **Clean Transport:** Sealed pipe system ensures minimal odors and maintains hygiene standards across all levels.

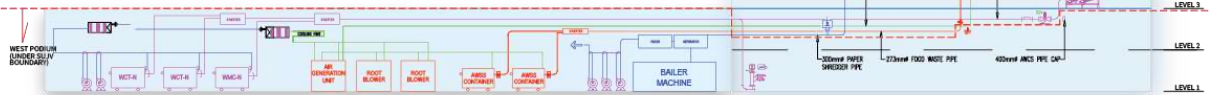


Paper Waste (>11,000m pipe length)

- **Efficient Recycling:** Built-in paper shredders are conveniently accessible in offices for secure waste disposal.
- **Streamlined Processing:** Shredded paper is transported, compacted, and baled for efficient handling before being sent to processing facilities.



CENTRAL WASTE HANDLING FACILITY



Waste Container - Fully sealed, air- and water-tight.

PROJECT OVERVIEW



📍 Kuala Lumpur, Malaysia Permodalan Nasional Berhad

- **Developer:** PNB Merdeka Ventures
- **Project Startup:** 2016
- **Project Completion:** 2023
- **Certification:** LEED Platinum
- **Height of Development:** 679 m
- **AWCS Type:** Hybrid System
- **No. of Fraction:** 3
- **Capacity:** 27.4 metric ton/day

