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 Media Release

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WATER CONSUMPTION IN SPT HIGHEST AMONGST 5 DISTRICTS IN PENANG

- In 2024, Seberang Perai Tengah (SPT) consumed an average of 209 million litres per day (MLD), or about 24% of the 872 MLD metered consumption in the State of Penang.

PENANG, Thursday, 6.2.2025: In 2024, Seberang Perai Tengah (SPT) consumed the highest volume of treated water amongst Penang's 5 districts.

The following table shows a breakdown of water consumption in Penang's 5 districts in 2024:

Penang District	Consumption (MLD)	Population*
1. SPT	209 (24.0%)	443,200
2. DBD (Daerah Barat Daya)	199 (22.8%)	248,300
3. SPU (Seberang Perai Utara)	179 (20.5%)	315,000
4. DTL (Daerah Timur Laut)	168 (19.3%)	569,900
5. SPS (Seberang Perai Selatan)	117 (13.4%)	188,100
Total	872 (100.0%)	1,800,500

* Population estimates by Department of Statistics Malaysia

It should be noted that SPT is now the second most populous district in Penang. Moreover, SPT houses 9 industrial areas/parks, including the Perai Industrial Area, Bukit Tengah Industrial Area, Juru Industrial Park and Penang Science Park.

Meanwhile, the district that ranks second in terms of water consumption is Daerah Barat Daya or DBD (the South-west District of Penang Island). Although DBD has a relatively lower population base, it encompasses the Bayan Lepas Free Trade Zones, Bayan Lepas Industrial Park and Diamond Valley Industrial Park.

WCP 2030 to increase treated water supply (2023 – 2028)

In 2024, state water consumption in Penang was an average of 872 MLD as compared to 877 MLD in 2023. There was a marginal 0.6% drop in consumption, year-on-year.

Nevertheless, PBAPP will continue to focus on implementing its Water Contingency Plan 2030 (WCP 2030) projects on time.

In 2024, PBAPP produced an average of 1,208 MLD of treated water to meet Penang's water demand. With a non-revenue water (NRW) percentage of 28%, the metered consumption was about 872 MLD.

Projections indicate that Penang's water demand will escalate from 1,208 MLD in 2024 to 1,532 MLD in 2030. Hence, PBAPP is gearing up to supply more treated water in 2030, in support of the achievement of the "Penang2030" vision.

The WCP 2030 encompasses the development of 8 strategic water infrastructure projects in the timeframe from 2023 to 2028. The objectives of the WCP 2030 are to:

- Complete 6 water treatment plants/modules (2 each in SPU, SPT and SPS) to increase PBAPP's water treatment capacity by 602 MLD;
- Pump more water from the Sungai Dua Water Treatment Plant to Penang Island via 2 new 1.8m pipelines; and
- Unlock 3 new secondary daily raw water resources for Penang (the Expanded Mengkuang Dam, Sungai Kerian and Sungai Perai).

6 Federal Projects to reduce Penang's water risks (2025 – 2030)

PBAPP will also support the implementation of 6 Federal projects to reduce Penang's water risks related to future prolonged dry spells (El Niño phenomena) and "Sungai Muda Incidents".

These 6 projects are the:

1. 440 MLD Lahar Yooi Pump House (SPT): To refill the Expanded Mengkuang Dam (EMD) more efficiently with water from Sungai Muda during wet seasons;
2. Dual-Purpose 440 MLD Pipeline from the EMD to the Sungai Dua Canal (SPT): Primarily to enable drawdowns of up to 1,040 MLD from the EMD to the Sungai Dua Water Treatment Plant (WTP) during emergency scenarios;
3. Sungai Muda Off-River Storage Scheme or ORSS (SPU): A "mini dam" to store 24 – 48 hours supply of raw water from this river in case of emergencies;
4. Sungai Kerian ORSS (SPS): A "mini dam" to store 24 – 48 hours supply of raw water from this river in case of emergencies;
5. Bukit Panchor Dam Upgrading Works (SPS): To store more raw water for use

in the production of treated water at the Bukit Panchor WTP; and

6. A new Sungai Muda Barrage at Rantau Panjang (SPU): To support up to 1,500 MLD of raw water abstraction from Sungai Muda in the future.

Perak-Penang Water Project (2030)

In January 2025, the Water Supply Department of the Ministry of Power Transition and Water Transformation (PETRA) issued a tender to appoint a consultant for physical works for the Perak-Penang Water Project.

The key benefits of the Perak-Penang Water Project for Penang include:

- Access to a second major raw water resource to support future socioeconomic progress;
- 250 MLD or more treated water from Perak for distribution to all areas in Seberang Perai, especially SPS;
- Potential “diversion” of more treated water from the Sungai Dua WTP to Penang Island;
- Lower risks of water shortages in Seberang Perai and DBD on Penang Island due to prolonged dry seasons; and
- Significantly lower risks of future “Sungai Muda Incidents” in Kedah affecting water supply services for the majority of water consumers in Penang.

Thank You.

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Appendix A:
Penang Water Consumption 2024 (by district)
Total: 872 MLD

