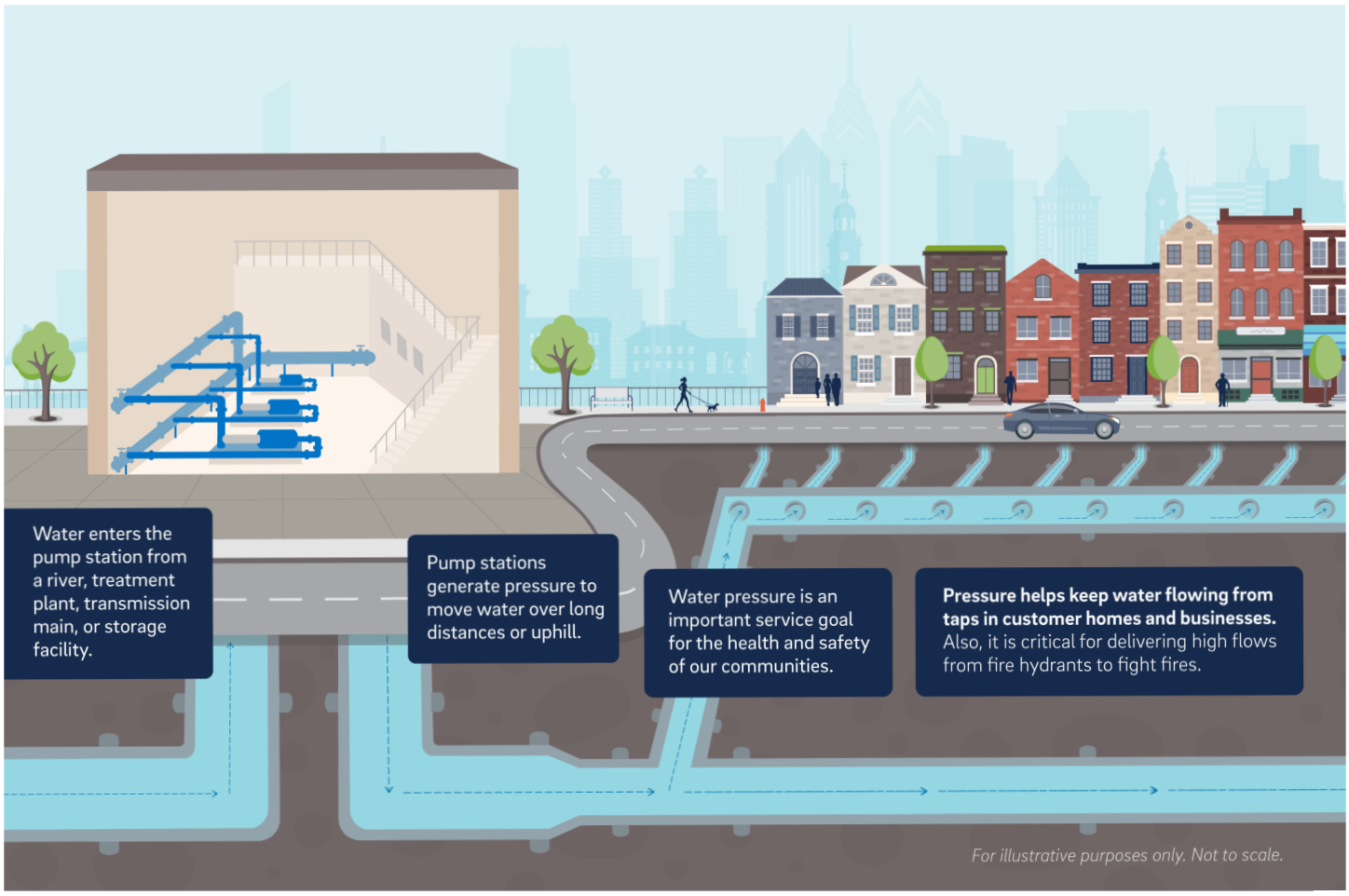
Water Revitalization Plan

Pump Stations

Pump stations play an essential role for the people in our city. They move water from our rivers to our drinking water treatment plants. After the water has been treated, pump stations push the water through the distribution system. They deliver clean water to homes, businesses, schools, and hospitals. These stations come in a wide range of types and sizes, from small neighborhood facilities to large, city-serving infrastructure, depending on the needs of the area they serve.



Pump station projects

PWD's **Water Revitalization Plan (WRP)** includes projects to replace aging equipment in pump stations. Many of the pump stations in Philadelphia are more than 50 years old, so it is important that these facilities continue to be able to provide reliable drinking water service.

The WRP also includes projects to install new pump stations. In some areas, we need additional pump stations to improve drinking water service. We'll share information with you if a pump station project is planned for your neighborhood.

PHILADELPHIA WATER DEPARTMENT

Scan to visit the WRP Project pages and stay updated on pump station projects in Philadelphia.

Inside a pump station

A pump station houses pumps, pipes, valves, and electrical equipment to move water through our system.

Pumps

Pumps convert mechanical energy into hydraulic energy. The hydraulic energy creates pressure to push water through distribution pipes. The pumps help water move uphill, providing reliable drinking water throughout the city.

Valves

Valves control the flow of water throughout the pump station and distribution system. They can start or stop the flow of water, regulate the water pressure, and isolate parts of the system for maintenance.

Pipes

Pipes bring water to and from pump stations, transporting it through the system to your tap.

Electrical Equipment

Pump stations contain electrical equipment to run the pumps, control the operation, and alert operators of any issues. This can include:

- Control systems, sensors, and alarms to monitor the operation of the pump station
- Motors that drive the pumps, supplying the energy they need to transport water
- Backup generators to ensure reliable operation during outages

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