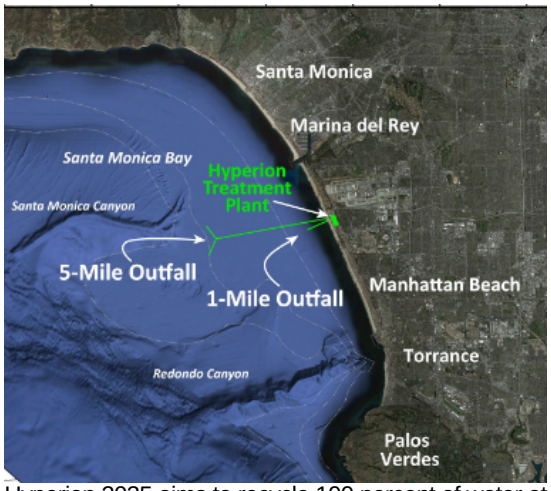
Hyperion Water Reclamation Plant

Hyperion 2035

The Hyperion Water Reclamation Plant (HWRP) is located in Playa Del Rey and has been operating since 1894, serving a population of 4 million over 600 square miles with a sewer system of 6,700 miles and an average flow of 260 million gallons per day. The plant currently discharges about 220 million gallons per day of fully treated wastewater into Santa Monica Bay. The goal of the Hyperion 2035 Program is to make better use of this water by converting it into recycled water for potable reuse applications. This new and local source of water will make Los Angeles more resilient and sustainable with respect to climate change impacts such as droughts.

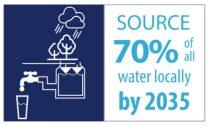


Hyperion 2035 aims to recycle 100 percent of water at the HWRP for large-scale potable reuse.

Hyperion 2035

Hyperion 2035 is LASAN's vision for recycling 100% of the wastewater from HWRP to meet the water sustainability goals in LA's Green New Deal by 2035:

- Recycle 100% of wastewater
- Source 70% of water locally

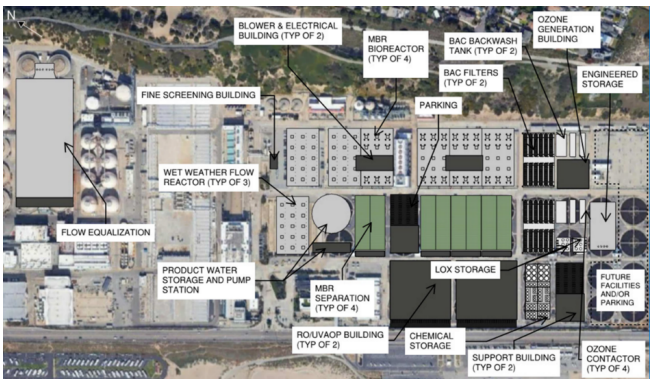


Hyperion 2035 will help Los Angeles improve its water supply resiliency by sourcing water locally and diversifying its water resources portfolio. By 2035, the HWRP will produce up to about 217 million gallons per day of recycled water which is enough to provide about one third of the overall potable water consumption. As the City's producer of recycled water, LASAN coordinates Hyperion 2035 closely with Operation NEXT (led by the Los Angeles Department of Water and Power) to meet the water management goals of the LA's Green New Deal.

Challenges and Opportunities

The transition of HWRP to 100% water recycling is a major transformation that requires highly coordinated efforts. The magnitude and complexity of 100 percent water recycling at HWRP carries special challenges and opportunities:

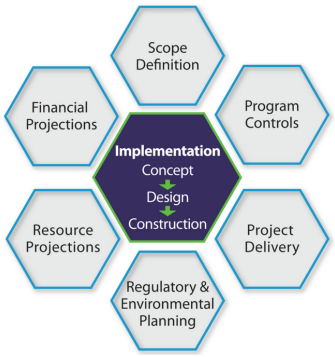
- Provide a new, sustainable, and reliable local water supply for Los Angeles through water recycling.
- Implement advanced treatment processes that protect public health and the environment.
- Maintain HWRP fully operational during the transformation to 100% water recycling.
- Achieve energy-efficient and cost-effective solutions.
- Collaborate with stakeholders and the public on the program's needs, benefits, and implementation.
- Comply with all regulatory requirements.

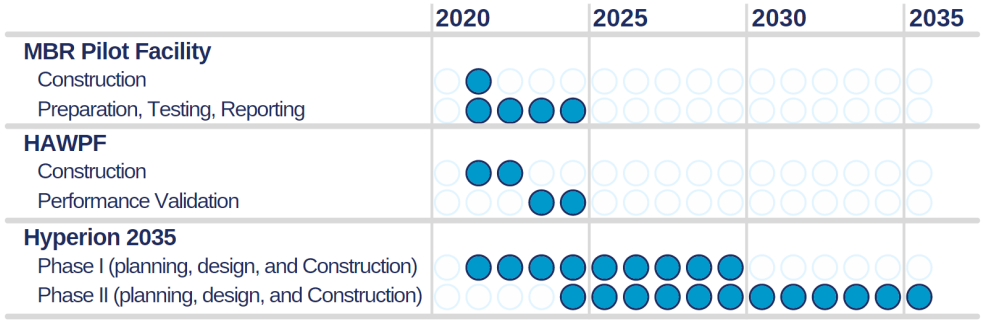


Early studies established that the Hyperion site is adequate for full scale transformation to 100% water recycling. Conceptual MBR scenario represented above

Program Implementation

To achieve the goals of the Hyperion 2035, LASAN has developed a roadmap for directing and monitoring program implementation. This program frame work includes a schedule, phasing, and sequencing approach that will be continuously updated as new information from ongoing and future studies and pilot projects becomes available. LASAN will follow this roadmap from concept to design, and ultimately to construction and startup.





Supporting Projects and Studies

To implement the Hyperion 2035, LASAN is conducting several studies to evaluate and optimize engineering solutions.

Supporting Projects

Hyperion Membrane Bioreactor (MBR) Pilot Facility: This project will provide scientific, technical, design, and operational data to evaluate MBR as a future wastewater treatment process and to obtain regulatory approval.

Hyperion Advanced Water Purification Facility (HAWPF): The HAWPF will provide recycled water to LAX and HWRP and serve as a proof of concept for the full conversion of HWRP to a 100 percent water recycling facility.

Ongoing Studies

Outfall Management Study: Evaluate anticipated plant discharges and regulatory compliance in 2035

Distributed Equalization Facilities Study: Evaluate the feasibility of using existing storage for equalization of 2035 flows

Process Conceptual Analysis Study: Analyze process alternatives for producing recycled water and treating excess wet weather flows

Outreach and Engagement

Critical components for Hyperion 2035 are outreach and public engagement. In order to help move the program forward responsibly, LASAN has initiated technical and community advisory groups that will frequently meet during program development.

Hyperion 2035 Technical Advisory Group: LASAN is convening key environmental organizations, academia, and regulators to collaborate on recommendations for 100% water recycling at HWRP and the protection of the Santa Monica Bay.

Hyperion 2035 Community Advisory Group: LASAN is engaging key community stakeholders on recycled water topics to address issues and gain support for Hyperion 2035.

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