

# POWER & PLAY

Timber Park is your gateway to Estacada Lake and all that it has to offer. It is part of Portland General Electric's (PGE) Clackamas River Hydroelectric Project, which includes several dams and powerhouses along the river. Check out the map below to see where PGE makes energy and offers recreation along the Clackamas River.

## Clackamas River Hydroelectric Project



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OREGON PARKS FOREVER



# RIVER MILL DAM & POWERHOUSE

River Mill Dam and Powerhouse are historic landmarks that showcase the power of water. Built in 1911 to help electrify Portland, they also helped create Estacada. Today, the reservoir is a sustainable source of power and a great spot to recreate and enjoy nature.



Use this brochure to uncover the inner workings of a hydroelectric dam and learn about some of the features you may see today.

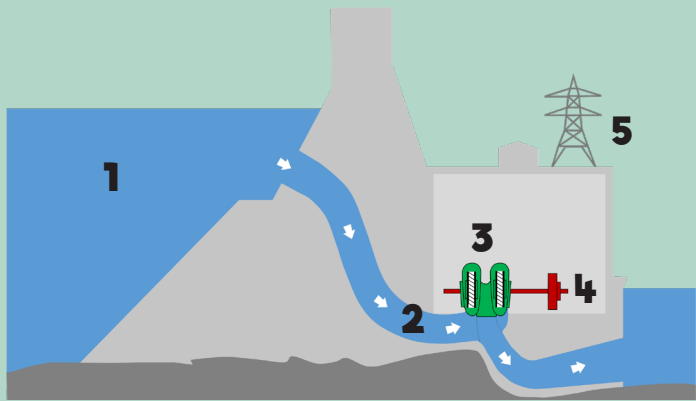


# RIVER MILL HYDROELECTRIC PROJECT

For over 100 years, River Mill Dam and Powerhouse have used nature's water cycle to make clean, reliable energy. As you hike, see if you can spot the features that help this dam produce electricity while also keeping fish and wildlife safe.

## Dam & Powerhouse

Hydropower is power created by moving water. Read below to learn how water creates electricity.



1. Water is a powerful force, and when a dam stops a waterway, it creates a reservoir of potential energy.
2. Gravity pulls water down into the powerhouse through a large pipe called a penstock.
3. Rushing water spins the turbine's blades and creates mechanical energy.
4. The turbine then spins a generator that alters the magnetic field, producing electrical energy.
5. The electricity travels to homes and businesses on power lines while the water goes back into the river.

## Fish Ladder

Some fish, like salmon and steelhead, swim upstream to spawn (to reproduce and lay eggs). The fish ladder is a series of steps that allow adult fish to pass the dam safely. It also helps lamprey, an ancient eel-like fish, travel past the dam. Do you see signs of fish in the water?

## Juvenile Fish Facility

Young fish born in upstream riverbeds have a long journey ahead of them to the ocean. However, most fish can travel through a long tube from North Fork Dam all the way to River Mill Dam, skipping all the dams in between on this 7-mile-long water slide! This building is where biologists can count and study fish before they return to the river.

## Surface Collector

The surface collector at River Mill provides a way for young salmon and steelheads born upstream to pass the dam and reach the ocean. It attracts fish with flowing water and guides them through a pipe to the other side.

## Spillway

The spillway is where water goes when the reservoir is too full from heavy rain or melting snow. Rising water flows over the top of the spillway like a giant waterfall. Do you think the water's high enough to spill over today?

## Reservoir & Booms

River Mill Dam blocks water on one side of the river and creates the 3-mile long reservoir, Estacada Lake. Floating barriers called "booms" keep large debris, like logs, from floating into the dam. You can help keep the lake clean by packing out any trash!