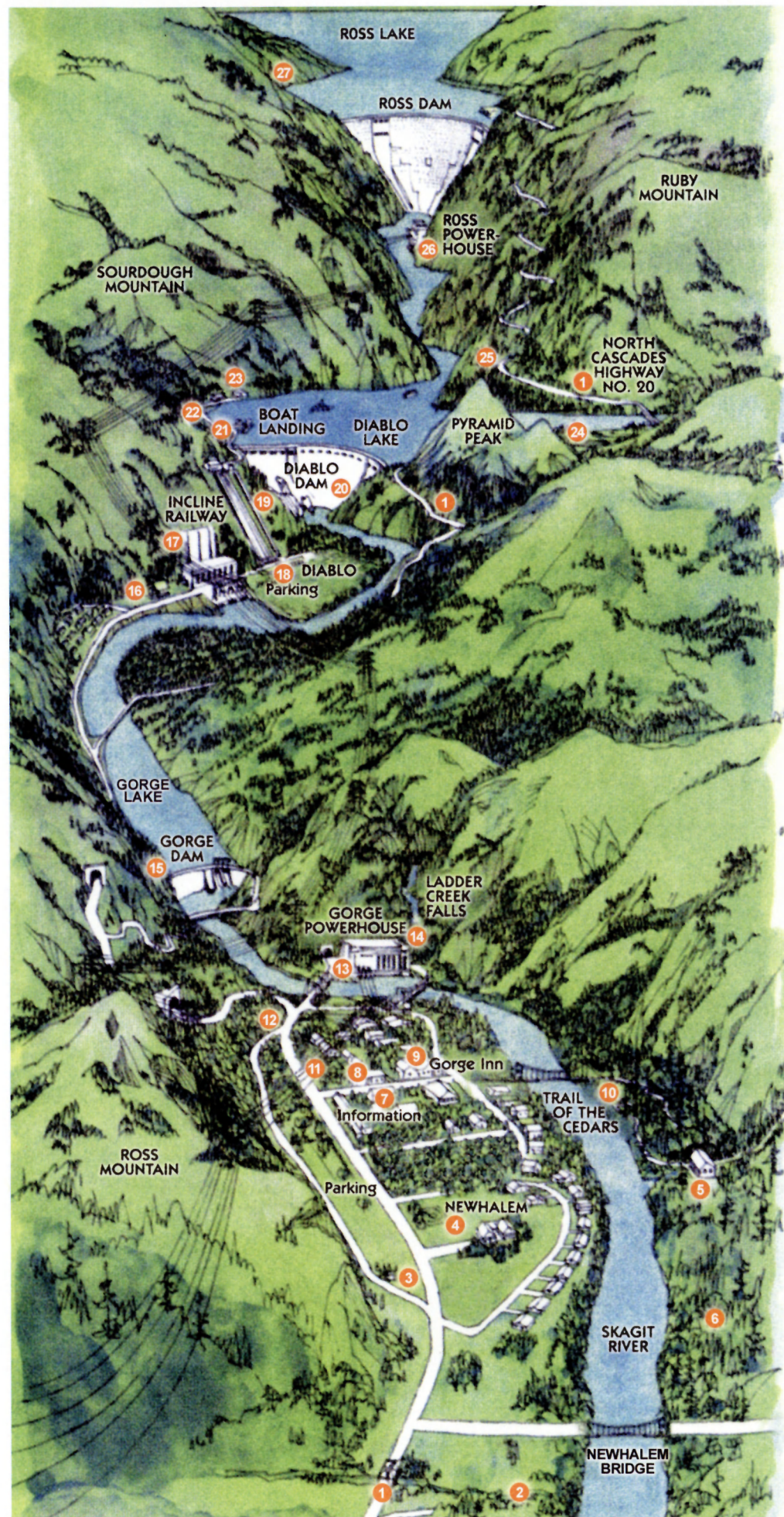


Skagit Hydroelectric Project



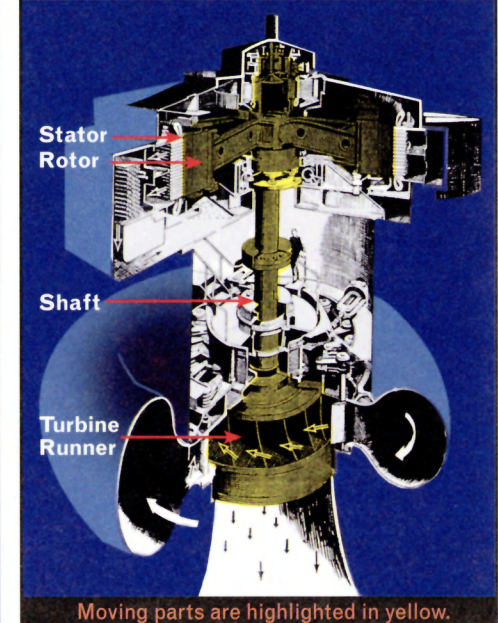
- 1 North Cascades Highway 20** Scenic drive from Marblemount to Mazama officially opened in 1972. Road is closed during the winter at Milepost 134.
- 2 Goodell Creek Campground** Downstream from Newhalem, the National Park Service maintains a campground.
- 3 State Highway Building** Visitors can report rock or snow slides here.
- 4 Newhalem** One of two communities owned by Seattle City Light to house Skagit Project employees and visiting City employees working on site.
- 5 Newhalem Powerhouse** Built to generate power during Gorge Dam construction in the 1920s, the first building burned down in 1966. The rebuilt powerhouse still uses the original tunnel, Pelton wheels, and generator. It is the oldest operating power plant on the project.
- 6 Newhalem Creek Campground** Features include drive-through campsites, trails, a visitor center, theater, bookstore and restrooms. Park Ranger programs are offered in the summer.
- 7 Skagit Information & Tour Center** Restrooms, tourism information and the Skagit Tours Reservation desk are located here.
- 8 Skagit General Store** Taste World Famous "Skagit Fudge". Pick up camping and fishing supplies, groceries, and picnic foods.
- 9 Gorge Inn** This historic employee cookhouse was once used to feed hundreds of people.
- 10 Trail of the Cedars** Amid forest giants, visitors can follow the self-guided nature trail along the Skagit River.
- 11 Old Number 6 Locomotive** This 1928 Baldwin steam locomotive once regularly brought passengers and freight to the project. Restored by Skagit River Railway volunteers, it was returned to Newhalem in 1986.
- 12 Ross Crypt** JD Ross, the "Father of City Light," and his wife Alice, are entombed in a crypt at the base of Ross Mountain.

- 13 Gorge Powerhouse** Located in Newhalem, the four generators can produce a total of 175,000 kilowatts.
- 14 Ladder Creek Falls & Rock Garden** J.D. Ross, City Light's second superintendent opened these gardens to the public as a tourist attraction in the 1920s. Adjacent to the garden is Ladder Creek Falls, which originates from a glacier field 5,000 feet high in the North Cascades. Free self-guided tours are available during the summer season.
- 15 Gorge Dam** Site of the first dam on the Skagit River built from rocks and logs and only nine feet high. The existing dam is 300 feet high and 670 feet wide.
- 16 Davis Powerhouse** Located next to the Diablo Powerhouse is a replica of the first Skagit powerhouse built by Glee Davis on his farm in 1908. The waterwheel generator produced 3 3/4 kilowatts for the Davis Ranch, (enough electricity for 11 light bulbs).
- 17 Diablo Powerhouse** With a peak capacity of 159,000 kilowatts, this plant's two main generators were the largest in the world when installed in the 1930s.
- 18 Diablo** A City Light company town, where employees and their families live. The Glee Davis Memorial Exhibit and the employee dining room are located in this box canyon.
- 19 Incline Railway** This is the last remaining part of the old Skagit River Railway. A 400-horsepower electric motor combined with a counterbalance to pull a lift 558 feet up Sourdough Mountain on a 70-percent grade to the level of Diablo Lake. Retired in 2000, the incline lift no longer transports people.
- 20 Diablo Dam** Completed in 1930, this was the tallest single-arch dam in the world. It stands 389 feet high and 1,180 feet along the crest. Diablo Lake, stretching five miles to Ross Dam, provides scenic cruising for visitors.
- 21 Diablo Tour Boat Landing** Visitors board the boat at this dock for Skagit Tours Diablo Lake Adventure. Purchase Tour tickets in Newhalem.

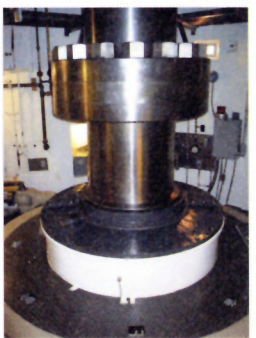
- 22 Fisherman's Ferry Dock** Catch the ferry to the base of Ross Dam from this site. Backpackers can explore the remote trails of North Cascades National Park, anglers can fish the waters of Ross Lake, and day hikers can return to dock via the 4 1/2 mile Diablo Lake West Bank Trail. The ferry operates from mid-June to the end of October, departing twice daily.
- 23 North Cascades Environmental Learning Center** The Environmental Learning Center, owned by Seattle City Light, is operated by the North Cascades Institute. See ncascades.org.
- 24 Colonial Creek Campground** The National Park Service operates this campground at Thunder Arm on Diablo Lake, off Highway 20. Picnic areas, a fishing dock and campsites are accessible to wheelchairs. Nature trails, an amphitheatre and a fish cleaning station are located at this site.
- 25 Diablo Overlook** Located at milepost 132 off Highway 20, with ample parking and majestic views of Pyramid Peak, Colonial Peak and the Cascade Mountain Range.
- 26 Ross Dam and Powerhouse** The four generators can produce a total of 450,000 kilowatts of electricity. The 540-foot tall dam and powerhouse were completed in 1952. Originally named Ruby Dam, the name was changed to honor J.D. Ross.
- 27 Ross Lake Resort** This unique resort provides cabins, boats and motors. Visitors can explore Ross Lake which stretches for 24 miles to the Canadian border. See rosslakeresort.com.

How hydroelectricity is generated

Cutaway of Generator and Turbine



Electricity is the action of electrons and other subatomic particles. The turbine of a hydropower plant uses the energy of moving water to make electricity. The main part of a turbine is called a "runner," a wheel with curved metal blades. Falling water hits the blades, forcing a shaft to turn. The shaft turns a magnetized wheel ("rotor") inside a stationary iron ring ("stator"), which is embedded with coils of copper wire. Electricity is created as the magnets spin past the copper wire activating electrons. The rotor and stator are the main components of an electrical generator.



 **Seattle City Light**
www.SkagitTours.com

For Skagit Tours reservations and information call (206) 684-3030.

