

#### Where is Hartwell Dam located?

Hartwell Dam is a concrete and embankment dam located on the Savannah River at the border of South Carolina and Georgia, creating Lake Hartwell. The dam was built by the U.S. Army Corps of Engineers between 1955 and 1962 for the purposes of flood control, hydropower and navigation. The concrete and earthen structure spans 15,840 feet (4,828 m).

### How much electricity does Hartwell Dam produce a year?

The Hartwell Dam currently produces 468 million KWhof electricity annually, has prevented over \$40 million in flood damage since completion and also provides recreation, water quality, water supply, along with fish and wildlife management.

### How does Hartwell's water plant work?

Hartwell's water plant uses high service pumps to deliver water through 55 miles of distribution system pipingto 2,058 residential and 571 non-residential customers. The distribution mains range in size from 2 inches to 14 inches, and there is over one million gallons of storage capacity in Hartwell's two elevated tanks.

### How do I get to Hartwell Dam?

Enjoy the beautiful open view all the way to Hartwell dam. Bring your boat or rent one from the local marina and park it in the single slip, covered dock. The attached swim platform and beautiful water are great for laying out, swimming and playing on floats.

### Does Hartwell Dam have a shoreline management plan?

SAVANNAH,Ga. - Officials from the Hartwell Dam and Lake Project recently released the latest Shoreline Management Plan(SMP) for the reservoir. "We felt like the previous SMP served the project well but needed minor clarification of some requirements.

67 miles above Thurmond Dam 7.1 miles below confluence of Seneca and Tugaloo Rivers. DRAINAGE BASIN AREAS: above the mouth of the Savannah River 10,579 sq. mi. above Augusta, GA 7,508 sq. mi. above Hartwell Dam 2,088 sq. mi. RESERVOIR: Top of Power Pool 660 ft.-msl 2,549,600 Ac-Ft 55,950 Acres Top of Flood Control Pool 665 ft.-msl 2,842,700 Ac-Ft

Modern Large Sized Hydroelectric Power Plants. The Dam of Three Gorges in China, currently the largest (18,300 MW, target power 22,500 MW). Itaipu Dam, on the border between Brazil and Paraguay, until recently the largest dam (14,000 MW). Grand Coulee Dam (Columbia River) (6800 MW). Mangla Dam: 1150 MW. Tarbela Power Station: 4888MW

Even a dam running at half capacity (800 MWs) is more efficient than a Solar power plant. A hydroelectric



dam running at a maximum of 1600 MWs costs a stupendously cheap \$2 per MW per week.

Hartwell Lake quickly became one of the largest man-made reservoirs in the Southeast, attracting tourists, anglers, and boaters alike. Beyond recreation, the dam's hydroelectric plant provided a significant power source, ...

The dam is a concrete gravity type; 1,900 feet long and 225 feet high with a 568-foot ... The Hartwell Power Plant produced 732,388 MWH in FY19, with \$23.9M in total power revenues. Hartwell Project has prevented \$103.6M in cumulative flood damages since construction. Within available funding, Savannah District will

Hartwell Dam is a concrete earth gravity dam located about 8 miles from Hartwell, Hart, Georgia. The dam, which is on the Savannah River, was primarily built for Hydroelectric purposes, but ...

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Worldwide, hydropower plants produce about 24 percent of the world"s electricity and supply more than 1 billion people with power. The world"s hydropower plants output a combined total of 675,000 megawatts, the energy equivalent of 3.6 billion barrels of oil, according to the National Renewable Energy Laboratory. There are more than 2,000 hydropower plants operating in the ...

comprehensive development of the Savannah River Basin. Hartwell Dam was completed in 1959 and the power plant became operational in 1962. Guidance for specific land use planning is given in Public Law 85-624, (Fish and Wildlife Coordination Act of 1959) and Public Law 86-717, signed into law in September

hydroelectric plants are much more efficient in converting energy to electricity. Most hydroelectricity, by far, is generated in conventional hydroelectric dams. Another type of power dam is called run-of-the-river. Micro hydroelectric dams are also discussed in relation to small streams. Another type of dam is specifically designed for pumped storage.

Take a look at this diagram (courtesy of the Tennessee Valley Authority) of a hydroelectric power plant to see the details: The theory is to build a dam on a large river that has a large drop in elevation (there are not many hydroelectric plants in Kansas or Florida). The dam stores lots of water behind it in the reservoir. Near the bottom of ...

that additional power demands would be likely. The 5th generator was installed in 1983. The powerplant at the Hartwell Project has the distinction of being the only hydroelectric plant to be totally designed and constructed by the Corps with the generators located outdoors. Hartwell Dam is a concrete-gravity structure flanked on



both

Hartwell Power plant is referred to as a "peaking" plant - which means the power plant is designed to supply dependable power during hours of "peak" daily demand. In addition to being a very clean energy source, another major advantage of hydropower is the availability to come "on-line" (begin producing power) within a few minutes.

Flow Measurement Methods Applied to Hydro Power Plants 157 Q K p " n (8) Where K is a constant coefficient and n is the power exponent, theoretically equal to 0.5. The values of the constants K and n are determined experimentally during calibration. The results of flow rate measurement performed, using the Gibson method, were used for

The main idea of a hydroelectric dam system is to create a water flow with a large vertical drop that creates enough force to turn a hydro turbine generator. Here is a simple step-by-step guide to how a standard hydroelectric dam creates electricity: (1) A river or lake provides a source of water from a man-made dam reservoir. The water in the ...

J. Strom Thurmond Dam, [1] also known in Georgia as Clarks Hill Dam, is a concrete-gravity and embankment dam located 22 miles (35 km) north of Augusta, Georgia on the Savannah River at the border of South Carolina and Georgia, creating Lake Strom Thurmond. U.S. Route 221 (and Georgia State Route 150 on the Georgia side of the state line) cross it. The dam was built by ...

of the project and \$1.8M in user fees returned to the United States Treasury. Hartwell has the largest shoreline management program in the nation with approximately 11,000 docks and 12,000 permits. The Hartwell Power Plant produced 627,265 MWH in FY20, with \$23.2M in total power revenues. Hartwell Project has prevented

The depth of the lake behind the dam is approximately 180 feet. The top of the dam is 204 feet above the Savannah River Bed. The Hartwell Dam and Lake has prevented over \$101,998 million in flood damages since 1962. Floodgates at the Hartwell Dam have been opened for flood control purposes three times - in 1964, 1965, and 1994.

Lake Hartwell and Dam were actually the first projects in a series of three lake/dam projects that comprised the Savannah River Project. Hartwell was followed by Richard B. Russell Lake and Dam to the southeast and then J. Strom Thurmond Lake and Dam near Augusta, Georgia. Nancy Hart:

The dam creates a 26,650-acre lake on the upper Savannah River, 30 miles downstream from Hartwell Dam and 37 miles upstream from J. Strom Thurmond Dam. Hartwell Dam located near Athens (completed in 1962) and J. Strom Thurmond located near Augusta (completed in 1954) join Russell to form a chain of lakes 120 miles long.



In addition to power production, 5 feet of storage above the maximum power pool has been reserved for flood control. This feature at Hartwell, along with that at Russell and Clarks Hill (Clarks Hill was renamed J. Strom Thurmond in 1987), reduced flood damage in the areas downstream by an estimated \$373,237 annually.Hartwell alone prevented an estimated \$74 ...

SAVANNAH, Ga. - A maintenance team is improving operational efficiency and cutting costs at the Hartwell Dam Power Plant by rehabilitating deficient generators. Recently, staff thwarted the imminent failure of unit 4 when several burnt coils were discovered during scheduled biennial outages. The timely discovery resulted in an economical ...

The dam is a concrete gravity type; 1,900 feet long and 225 feet high with a 568-foot ... power transformers fire suppression system, and design/repair trunnion bearing supports for spillway gates. ... The Hartwell Power Plant produced 430,915 MWH in FY18, with \$21.6M in total power revenues. Hartwell Project has prevented

Hartwell Lake Dam is a hydro power plant operated by U.S. Corps of Engineers with a total output of 420 MW. Wikimedia Commons. OpenStreetMap; Wikipedia (Hartwell Dam) Wikidata; Generators. Source Output Count Total output; hydro: 80 MW: 1: 80 MW: hydro: 85 MW: 4: 340 MW: External Identifiers. ref:US:EIA: 754:

Other Power Plants Nearby. Hartwell Lake Anderson Highway, Hartwell, GA - 1.7 miles. Hartwell Energy Lp Power Plant Smith McGee Highway, Hartwell, GA - 1.7 miles. Army Coe (Rrussell Pwrplant) Power Plant Russell Dam Drive, Elberton, GA - 24.9 miles. Richard B Russell Russell Dam Drive, Elberton, GA - 24.9 miles

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