



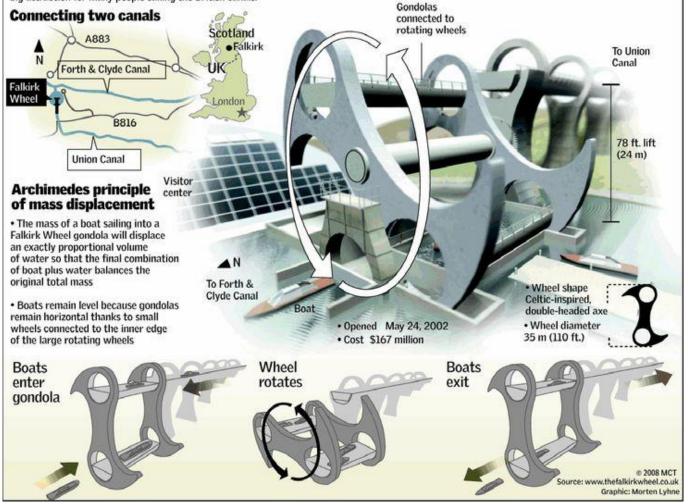
1. Presentation

The Falkirk Wheel is a rotating boat lift located in Scotland, UK, connecting the Forth and Clyde Canal with the Union Canal, opened in 2002. It is named after the nearby town of Falkirk which is in central Scotland. The two canals were previously connected by a series of 11 locks, but by the 1930s these had fallen into disuse, were filled in and the land built upon. The two sides are completely balanced due to Archimedes Principle, therefore it only takes 1.5 kWh to turn the wheel.



Falkirk Wheel: Eliminating locks

Once connected by a flight of 11 locks that stepped down a distance of a mile (1.5 km), the Falkirk Wheel, using Archimedes principle of mass displacement, now connects the Forth and Clyde Canal which lays 115 ft. (35 m) below the Union Canal. The world's only rotating boat lift is a big attraction for many people sailing the British canals.







2. Falkirk Wheel in video



Falkirk Wheel

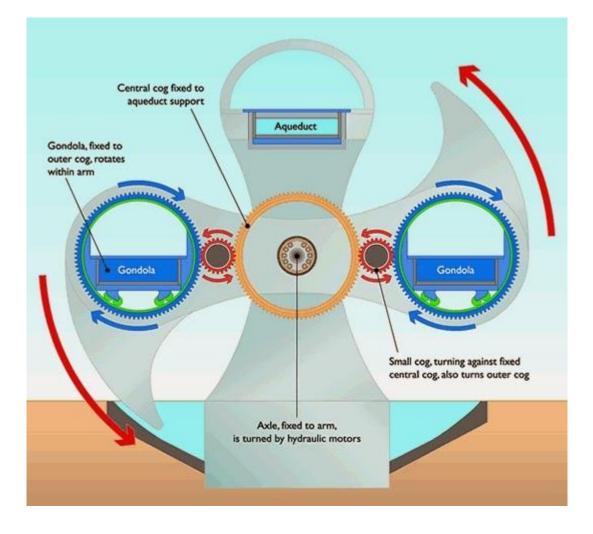


Timelapse of the wheel rotation



Timelapse from inside a boat

3. The wheel



4. Question

Present the Falkirk Wheel and explain how it works.