

Claims:

1. A hydroelectric generator comprising:
 - a first fluid reservoir arranged to receive fluid from its uppermost end and fluid outlet located at its lowestmost end;
 - a second fluid reservoir disposed at a height lower than the first fluid reservoir for receiving fluid exiting from the first fluid reservoir;
 - a hydro-turbine rotated by fluid exiting from the first reservoir to the second reservoir;
 - power generation unit connected to be driven by the hydro-turbine;
 - one or more siphon conduits for delivering fluid from the second reservoir to the uppermost end of the first reservoir;
 - means for delivering fluid from the second reservoir to the first reservoir to initiate siphon flow through the siphon conduits; and
 - a supporting means to secure the first fluid reservoir in a raised position relative to second reservoir.
2. A hydroelectric generator of claim 1 whereby the energy storage system is a flywheel generator.
3. A hydroelectric generator of claim 1 or 2 whereby fluid level sensing means is provided to the lower reservoir to monitor the fluid level.
4. A hydroelectric generator of claim 3 whereby the fluid level sensing means is arranged to initiate replenishing of fluid to the lower reservoir when fluid in the lower reservoir drops below a critical level.
5. A hydroelectric generator according to claims 1-4 whereby the one or more siphon conduits are provided with filters to prevent clogging.
6. A hydroelectric generator according to claim 5 whereby the filters are located at the inlet opening of the siphon conduits.
7. A hydroelectric generator according to claims 1-6 whereby the one or more siphon tubes are arranged for one-way directional fluid flow from the second reservoir to the first reservoir.

8. A hydroelectric generator according to claims 1-7 whereby the fluid capacity of the first fluid reservoir is less than the fluid capacity of the second fluid reservoir.
9. A hydroelectric generator according to claims 1-8 whereby the fluid is water sourced from wells, rivers or bodies of water.
10. A hydroelectric generator according to claim 9 whereby the fluid is filtered before it is used to fill the second fluid reservoir.
11. A hydroelectric generator according to claims 1-10 whereby the siphon tubes are around 1 inch diameter.