

Solar farms	Cascading hydropower plant
Building cost approx. 1,3-1,4 million eur/MW, and floating solar farms in a region of 2 million eur/MW or above	Building cost approx. 1.35 million eur/MW
Partly limited with favorable places where location position needs to be able to achieve constant sun intensity	Building place has unutilized potential, at the moment there is no concurrent technology for utilizing lowland rivers, technology is unique with utilization of steady intensity of water flow
Huge land acquiring In order to provide a significant amount of electrical energy, location is used with extra roads being built	No land acquiring, location is used with existing roads
Bird migration is disrupted, physically and by strong beams of light reflection, from a distance confusing birds to be bodies of water, often resulting in deaths where many of their wings had been burned off by heat from the solar farm's mirrors. Other huge land acquisitions are displacing many other animal and bug species	Does not disrupt flora and fauna. Nature can undisturbedly flourish and develop with favorable water movements and more oxygen in the water, constant and exact water level protects bird nesting places next to the river
No dangerous vibrations that can damage material, but extreme winds can tear solar panels and whole constructions and cause short circuit incineration	Vibrations in water are damped, overflow sound positively and relaxing on people and animals, floods cannot influence hydro plant and neither the extreme winds
Environment is not favorable for tourism industry	Environment is favorable for tourism, weekend zones and populated places with land melioration, sport activities (rafting, kayaking etc.) and industrial zones as additional building project.
Has no additional economical effect, only energy production	River bed is regulated for floods, cascades slow water when needed, or water flow can be speed up as required. Floating waste collection and fine tuning of the water flow and height level for the best "fine tune" of the nature
No additional economical effect, no possibility to store energy	Cascading plant situated in chain can accumulate water during night for utilization over daytime. (natural battery effect)
Adding produced energy from series of locations or single connection to a local electricity grid	Adding produced energy from series of locations or single connection to a local electricity grid similar to gas generator.
Source of potential solar energy is variable in given time interval, when on a bad weather days the high requirement for energy cannot be fulfilled with no possibilities of production in the evenings or night.	Source of potential energy is constant, concentrated in daytime interval when energy requirements are greater. Possibility to supply during the evenings or night to fulfil local industry's potential supply if needed
Yearly production with 1 MW plant is average 1.600 MWh, but depends on weather conditions and exact amount of sun	Yearly production with 1 MW plant is average 3.500 MWh, fine tailored when the highest usage requires it
Yearly production on better (most sunniest locations) locations with 1 MW is 1.800 to 2.300 MWh	Yearly production on better locations with 1 MW is 5.000 MWh
Lowest building cost is 1.300.000 euro per MW, investment has much smaller economic effect, and part of produced energy needs to be stored, resulting in economical loss	Lowest building cost is 1.350.000 euro per MW, cascading system accumulates energy by night, lowers danger from floods, creates better and full year long navigable waterways, prevents land erosion, improves ecology while it is safe for swimmers and it is fish friendly