

Grid-Tied Screw Generators



Type

Induction Generator

Head Range

1- 10 Meters

Output

1-100 KW

Models

Concrete Cast in Place
Steel Open Top
Steel Closed Tube

Connections

Single Phase
Three Phase

Grid-Tied Screw Generators

Custom designed to maximize your return

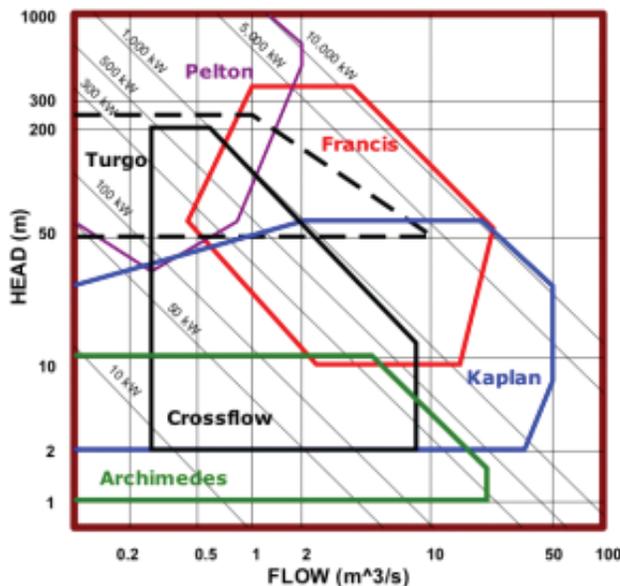
No matter how your Grid-Tied generator is connected, whether it is by FIT contract or Net Metered, you're concerned about your return on your investment.

Our grid-tied induction generators are custom designed for each site based on the head and flow duration data in order to maximize the IRR (Internal Rate of Return) on the project. This fine tuned custom approach is the key to maximizing IRR and making micro hydro viable.

The head and flow duration data for a site in combination with system cost and engineering information determines the optimal screw generator specifications.

If you have already determined the optimal design head and maximum capacity design flow for your site we can supply a custom designed screw generator to match those specifications.

If you need to determine your optimal design head and maximum design flow we also offer assessment services to help you.



The above diagram shows the operating ranges for the Archimedes screw in comparison with other types of turbines in terms of head and flow rate.

Within its operating range, the Archimedes screw is unmatched in terms of costs, reliability, ease of maintenance, performance under non ideal head and flow conditions and fish and environmental friendliness.

Please see our website for further details, www.greenbugenergy.com



Models For Any Weather

The concrete cast in place model for freezing environments, and two additional models, the steel open top and steel closed tube, for non freezing environments can reduce site work and installation costs.

World Class Reliability

Three phase gear motors from reputable suppliers such as SEW and NORD are highly reliable, cost effective and widely available.

Low Maintenance

Large water chambers and slow rotation speeds handle all but the largest debris eliminating the need for fine screening and frequent trash rack cleaning.

Operator intervention is not required due to grid sensing controls turning the screw on when grid power is detected and turning the screw off when no power is detected.

Environment Friendly

No fish screening is required as the screw safely passes fish down stream due to large water chambers and slow rotation speeds.

There is no management of water flows. The screw utilizes only available water flows.

For more complete information on GreenBug Energy products and services, visit us on the web at www.greenbugenergy.com

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Micro Hydro