

Homebrew_Hydro_Electric_Links_2005.txt

Look into:

dc treadmill motors
Runner for alternator
Hydro-power alternator runner
Permanent magnet alternator
Permanent magnet motor low speed
Pm-1000
PMG alternators
Francis Impulse Turbine

A number of alternator builders/rebuilders are offering PM conversions or new PMG alternators especially for marine applications. I think a lot of the new 42 volt auto alternators will also be PM for improved efficiency. I am not sure what will be required to regulate the output, but there should be some kind of internal regulation available. Some inexpensive PWM electronics could regulate voltage over a wide range of RPMs. The vehicle's computer could regulate it, tho.....

Homebrew Hydro Electric

<http://www.otherpower.com/scotthydro1.html>

effecentcy of water power methods

<http://www.i4at.org/countrylife/waterpower.html>

harris turben water flow Data good

<http://www.bitterrootsolar.com/hydro/harris.htm>

Water Baby micro hydro

<http://www.rpc.com.au/reindex.html?http://www.rpc.com.au/products/hydropower/waterbaby/waterbaby.html>

pm alternators

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<http://www.hydrogenappliances.com/powerpmas.html>
<http://www.hydrogenappliances.com/pmacurves.html>

Regulator for Permanent Magnet Alternators

<http://www.otherpower.com/pmgreg.html>

Permanent Magnet Brushless 3 Phase Alternators

<http://www.windstreampower.com/generators/PMA.html>

<http://www.windstreampower.com/generators/Torque.html>

At 500 watts and 1800 rpm torque is 2 lb-ft or 12 lbs on 4? runner.

Motor dimensions calculator -- Bowman Magnet Motor Open Sourcing Project

http://www.pureenergysystems.com/os/MagneticMotors/BMM/plans/specs/dimension_calculator/index.html

if you want to buy one, please check here:

<http://www.windmission.dk/PMG/pmgforeveryone.html>

If you want make one from scratch,

please see

<http://www.otherpower.com>

'volvo' generator.

We made one quite similar here, it wasn't very difficult, after we got the right materials.

If you want to rewind a car alternator,

please see:

<http://www.mtmscientific.com/rewind.html>

The job itself isn't very difficult.

You only need to rewind the stator coils with thinner copper wires. The same way as they were, but more turns.

If you want to try a conversion of a car alternator into pmg, please see:

<http://www.windstuffnow.com>

- Hannu

Magnets

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<http://www.magnetsrc.com/>

windmills and more very good.

<http://www.hydrogenappliances.com/>

Watts expected from a water flow.

<http://www.greenhouse.gov.au/yourhome/technical/fs49.htm>

micro-hydro pelton wheel

Harris unite

<http://www.scsolar.com/microhydro.html>

better prices

<http://www.backwoodssolar.com/Catalogpages2/hydropower2.htm>

Harris Hydro pelton with Motocraft 80 amp alternator - 1 nozzle

<http://www.dunsolar.com/MicroHydro.asp?InfoType=MHP> not done

where to order pelton wheels and a good practical write up for designing.

<http://www.suntrekenergy.com/hydro.htm>

plastic \$195 ES&D Plastic pelton runner

<http://www.energyalts.com/catalogue/Items/ESD4P-B.htm>

ES&D Turgo Runner ? Bronze \$526.68

<http://www.perfectpowernetwork.com/Product/877/T1,0008,0024/ESD-Turgo-Runner--Bronze.htm>

Harris Bronze Pelton Wheel \$275.00

ESD Pelton Wheel \$113.00

ESD Turgo Wheel \$737.00

http://www.tophatenergy.com/price_products_list.htm

links to hydro

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http://www.timsbrain.com/Environmentalism/Renewable_Energy/MicroHydro/Online_Sto
res/ not done

good for home built knowlage.3 phase AC induction motors
www.renewablepower.com/files/homepower.pdf

Micro hydropower basics

<http://www.microhydropower.net/turbines.html> not done yet

Turgo runners & components for DIY micro-hydro

http://h-hydro.com/turgo_gen

Nautilus Low Head Turbines

This site describes the turbines built by Nautilus Water Turbine Inc

<http://www.waterturbine.com> microhydro@...

Rainbow Power Company Ltd

Australian Renewable Energy supplier- has large FAQ, BBS & Newsletter

<http://www.rpc.com.au> davel70

Wasserkraft-Forum

A little forum in german for all kinds of informations, commercial and technical
- ein kleines Forum auf deutsch fr alle Art von Informationen, Kauf/Verkauf und
technisch

<http://wasserkraft-forum.de.tf> magnus_bon

micro hydro pages of Upali

I have long been interested in Micro-Hydro power. I found this egroup.com/micro
hydropower group. In future I hope to start a micro hydropower project. So I
think this will be very useful for me and others to share our
knowledge/information.

<http://start.at/microhydro>