

## Schrepel, Eric

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**From:** Jenkins, Kris  
**Sent:** Monday, November 22, 2004 3:19 PM  
**To:** Lapworth, Heather  
**Subject:** FW: Comment on Draft Power Plan document 2004-12

**Follow Up Flag:** Follow up  
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wind v twin  
tidal03.jpg

-----Original Message-----

**From:** Hank Patton [mailto: [REDACTED]]  
**Sent:** Friday, November 19, 2004 11:25 PM  
**To:** Jenkins, Kris  
**Subject:** Comment on Draft Power Plan document 2004-12

Mark Walker  
Director of Public Affairs  
Northwest Power & Conservation Council  
851 SW 6th Avenue, Suite 1100  
Portland, Oregon 97204-1348

Mr Walker and colleagues,

I would like to encourage the Council to take a closer look at the Northwest's tidal stream or marine current "offshore hydro" resource.

One of the more interesting precepts of sustainable design is that if one can not afford to do something correctly, it is because you have the wrong boundary conditions.

Although marine current turbine technology is young in its first MW and beta prototype, and presents from one perspective a T&D challenge of seemingly insurmountable proportions in remote sites, nonetheless tidal stream energy represents a significant and uniquely clean new generating resource of considerable potential benefit to the Pacific Northwest.

Although intermittent with the reversing tides, offshore hydro unlike wind is extremely reliable and can be characterized in a single tidal cycle. The same instrumentation can assess hundreds of sites a year. Unlike the Northwest hydroelectric river system, off shore hydro will not subject to the vicissitudes of bad water years and early snow melt, has no fuel price volatility, no purchased fuel, and no climate effect.

Tidal stream is predicted to have one of the very lowest environmental impacts of any known energy technology, and may prove to enhance marine environmental values by providing in effect protected zones from long line and long net fishing systems.

The world leader in the technology, Marine Current Turbines, is considering partnerships to for the manufacture of their systems here in the Northwest.

The Council needs to reach wider for innovative partnership strategies that

can bring such an important new resource to commercialization as a matter of highest regional priority.

Thanks for your attention.

Henry H. Patton  
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