

## Re: World's First Fuel Cell–Powered Train Locomotive Slated for 2008

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**From:** Ian St. John ([istjohn\\_at\\_noemail.ca](mailto:istjohn_at_noemail.ca))

**Date:** 08/11/04

Date: Wed, 11 Aug 2004 07:22:00 -0400

Stephen Sprunk wrote:

> "Ian St. John" <[istjohn@noemail.ca](mailto:istjohn@noemail.ca)> wrote in message

> news:XFfSc.21015\$Mq1.990024@news20.bellglobal.com...

>> Stephen Sprunk wrote:

<snip>

>>> As does every existing HSR line in the world -- France, Germany,

>>> Spain, Japan, etc. all use overhead electric, not turbines.

>>

>> I am not pushing turbines. I have just noted that the U.S. tends to

>> propose

>> them as the only way to make a high speed rail service without the

>> development of the electrical infrastructure.

>

> The world record for a turbine train is 378km/h; none is in service

> faster than 200km/h. The world record for an electric train

> (actually, all trains) is 515km/h, and they'll soon be raising the

> operating speed from 300km/h to 320km/h in France.

And when you do not have the infrastructure to support even a 125 mph turbine because your rails are too fucked up from heavy freight, what do these numbers really mean? Not that you have the OPTION of an electric train in most of the country because you do not have the power grid for it. The turbine electric is chosen, not because it is fastest but because it is the most practical option that does not involve rebuilding the rail lines and the power grid.

> HSR competes with air, which moves at 800km/h but has about an hour

> and a half of passenger delay, so 200km/h rail is only competitive up

> to about 400km (250mi). 320km/h rail would be competitive out to

> 800km (500mi). That's twice the distance.

Some people would take rail for comfort, convenience and to have a view.

However, you are right in that maglev is probably the most competitive high

speed link for long distances. Not that it is any likelier than your all

electric service and for the same reasons.

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> *Also, the TurboLiner doesn't meet FRA regulations for new production,*