

Re: S. Africa PBMR Project Status

Of course I don't mean "discharge" to the ambient if this is your point, PBMR is a closed helium turbine cycle, after expansion in turbine helium is cooled down to temp of 140–160 degrees through a recuperator and recompressed after. Obviously it's not possible to reuse this "waste" heat to produce electricity or hydrogen via high temp chemical reactions, but we could develop low thermal desalination and district heating, in the second case we have to be sure temperature water (produced from cooled helium until 140–160 degrees) is enough higher than 100 °C to win transportation hot water losses (about one degree per km in the district heating network)

Ah...OK, I get it now. I thought this is what you may meant...extracting every bit of heat from the inert helium for use someplace.

I didn't know the formula for transportation of hot water. Interesting. Do you know if this 140–160 C is in fact the helium temperatures before it goes to the helium chillers? IF it is, then low temperature industrial processes are possible obviously.

David

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