

Re: PEM fuel cell efficiency

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- *From:* "DE Pauley" <news@xxxxxxxxxxx>
 - *Date:* 23 Jul 2005 13:44:23 -0700
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This is only an indirect answer. MIT has a course on "Application of Technology" in which fuel cells are analyzed. The 'theoretical' FC efficiency depends on the load. In slide 9 (<http://web.mit.edu/1.149/www/lecture21/lec21slides.pdf>) the efficiency varies from 100% at no load to 50% at full load. In slide 26 the 'typical' efficiency is given as 45%. This probably corresponds to a range of load conditions encountered during driving, but I am not sure. A tradeoff for higher efficiency vs larger FC size would be possible. The optimum may be to increase the size to achieve an efficiency in the 60–75% range.

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- *Follow-Ups:*

- ◆ *Re: PEM fuel cell efficiency*
 - ◇ *From:* G. R. L. Cowan
- ◆ *Re: PEM fuel cell efficiency*
 - ◇ *From:* Don Lancaster

- *References:*

- ◆ *PEM fuel cell efficiency*
 - ◇ *From:* Don W.

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