**The price of the electricity that will be required to make transportation fuel**

Say I have electricity at 0.05USD/kWh (not very cheap or very expensive, <https://en.wikipedia.org/wiki/Electricity_pricing>) and I transform to gasoline with 50% energetic efficiency. What will be the cost of the fuel?

1 L is about 10 kWh (<https://en.wikipedia.org/wiki/Gasoline_gallon_equivalent>).

So 1$ per L which is expensive even in this very high efficiency scenario that does not take any costs of the electrodes etc.

To put the price into economical context (where there aren’t very high taxes on gasoline that go to the state and thus not relevant), the current average US cost for consumers is about 3$/gal which is less than 1$/L (<https://gasprices.aaa.com/state-gas-price-averages/>).