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THE FUEL OF THE FUTURE
To the oft presented question of where industry will get power when the coal and oil are gone a novel, if not quite satisfactory, answer is offered by Mr. Edward C. Warren in "The Engineering Magazine" for November. Among the chemical elements which develop heat by combustion is hydrogen, and in that gas Mr. Warren thinks an ideal fuel can be found. It develops four times as much heat as the best coal, and burns so thoroughly that no soot is deposited. Besides, the supply is practically inexhaustible, as hydrogen is one of the constituents of water, and the gas can be recovered and used again promptly. The product of combustion in this case is aqueous vapor, which can be condensed as exhaust steam is and then immediately subjected to the proper treatment for divorce. The process again made available takes years.
These statements will hardly be disputed by either the chemist or the anspineer but they do not full meet engineer, byt the requirement the fuel prob lem. The task of dissoclating hydro lem. The task of dissociating hydrogen fitur oxygen ther for peniturical ower. By the methods mechancal po the py the in an now in vogue the operation is an expensive one. H the cost of producthirty times that of orl would or ary times that of coal, would it adoption be econove the there any reason to belleve that the proor would be any cheaper fire second cept for the conveniene of cept for the convenience of limiting the space demanded for storage, would. there be any advantage in using the gas more than once? is Were any resemblance etween Mr. Warren's proposition and the hope, once expressed by the late Mr. Tripler, that with one horsepower, generated by steam, he could produce enough liquid air to develop ten horsepower? Perhaps at some future time further light will be thrown on these phases of the subject either by Mr. Warren or his critics. In the mean time it is permissible to remark that if, as he asserts, power is free, there is a wonderful difference in the cost of harnessing it.
In the course of his discussion of fuels Mr. Warren alludes to the kinds at present utilized as having been thrust upon us by those who had them to sell." That utterance is hardly such as to commend to favor his plan for a sub titute. Consumers of coal and oil have used those articles because nothing better was to be had. Though they may have been dissatisfled at tizes with the price; as buyers often are, they have had reason to be thankful that fuel of some sort could be had. They were under no compulsion to purchase. Will dealers in hydrogen be dominated by purely altruistic sentiments and put it on the market less than the cost of production? New York Tribune

## HIBERTY

Cincinnati Catholic Telegraph: We would respectfully ask people of all denominations to think frequently during the coming year upon the les son, given to Catholics by the fa mous Dominican, Lacordaire. The great preacher said
well; if Catholics understand this selves you must desire it for all your in all lands. If you it for all men selves alone, you will never for yourit; give liberty wherever be given masters, and it will be given to you
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