Hrein Energy, Inc. is engaged in development of systems concerning generation, storage and supply of hydrogen which is derived from recyclable energies such as wind power, solar power and biomass. With our expertise also effective as an instrument to fight global warming (as described below), we hope to contribute to realization of hydrogen-oriented society where energies and environment exist in harmony.

1. **Direct Hydrogen Production System**: This is a system to produce and obtain hydrogen directly from organic wastes using a sugar-decomposing bacterium: *Clostridium beijerinckii strain AM 21 B* isolated by Dr. Taguchi, Professor Emeritus of Kitasato University.

2. **Wind Power Hydrogenation System**: After electricity is generated from wind power, its fluctuating portion of output is decomposed by water electrolysis to obtain hydrogen, and hydrogenation process takes place by the aromatic compounds catalysis to produce “the organic hydrides.” This is in liquid form under the atmospheric temperature and pressure and can be easily transported and stored similarly with kerosene.

3. **High Efficiency Dehydrogenation Equipment**: Existing infrastructural facilities such as oil tanks and tankers are used to store and transport hydrogen in a safe and compact manner enabling its on-site supply to FC and the similar hydrogen energy systems.

Our trade name carries a beautiful Icelandic word “Hrein” which means “clean” to always remind us of the image of a world-leading hydrogen-oriented country, Iceland.

**Major Product Lines**: Hydrogen production equipment and hydrogen storage & supply equipment

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**Corporate Overview**

Address: Harada Building 1 F, Kita 1-jo Nishi 10-chome, Chuo-ku, Sapporo, Hokkaido 0600001 Japan

Company Representative: Akira Koikeda, president

Phone: +81-11-209-9777 FAX: +81-11-209-9778

URL: [http://www.hrein.jp/](http://www.hrein.jp/)

Foundation: April 2001

Capital: 191,000,000 Yen

Employees: 5

Category of business: Manufacturer

Business Overview:

1. Production and sales of hydrogen production and storage equipment
2. Repair and maintenance of hydrogen production and storage equipment
3. Entrusted examination and research development service on hydrogen production and storage technology and fuel battery
4. Production and sales of dispersed power supply device
5. Production and sales of waste treatment equipment

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