



Ingsman

Fact Sheet

Ingsman Energy and Fuel cell Research Organization (IEFRO) Private Ltd. of India is aimed to be the best alternate energy research organization offering R&D services to the diverse needs of customers through its innovative new technology platform.

Commercial platform

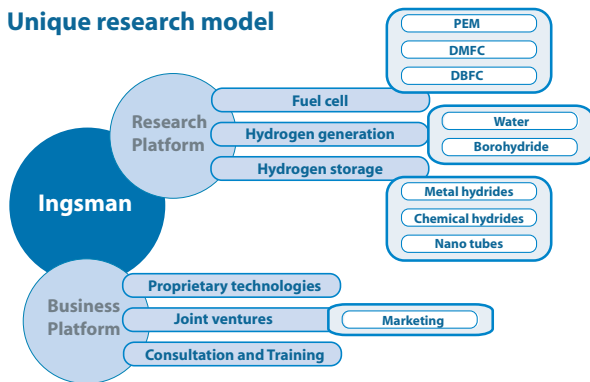
Organization background

Ingsman Energy and Fuel cell Research Organization (IEFRO) Private Ltd. was founded in 2005 with the aim to reach the highest limits of the fuel cell performances and to inculcate the passion for research on alternate energy to surmount the depletion of conventional fuel and life-threatening pollution. Ingsman is fully committed to bring its cost effective and environmentally safe high power density DBFC and PEM fuel cell products with lasting reliability. Ingsman is seeking potential sources for generating funds from interested organizations to develop a collaborative commercial fuel cell products. We invite collaborators and partners from battery-, automobile-, telecom- industries, academic institutions, defence and government organizations.

- Aimed to be the best Contract Research Organization (CRO) for clients of diverse needs and offer the best consultation & training services by extending knowledge that achieves "tailor made" solutions to industries, educational institutions, research organizations (Private/Government) and growing companies
- Commercialization of fuel cell kits for research and educational needs in universities and research labs.
- Development and commercialization of "power pack" for portable electronic devices that utilizes a safe, stable and non-polluting fuel and scientific equipments of diverse needs.
- Corporate/Government organization may utilize our innovative findings either by securing the copyrights or through joint venture. These institutions may also fund our highly visioned further research.
- We aim to be the best alternate energy research organization to extend advanced research facilities to educational institutions and other research centers of like interest.

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www.ingsman.com

Unique research model



Major accomplishments

Scientists at Ingsman developed an intricate technological platform for direct borohydride fuel cell (DBFC) and a novel methodology for electrode fabrication that proved to be very advantageous than conventional methods. Ingsman ingeniously fabricated the direct borohydride fuel cell (DBFC) and achieved 130 mW cm² of peak power density at room temperature with H₂O₂ as an oxidant.

Ingsman achieved > 6 wt% of hydrogen generation (non-continuous) from water through unique chemical method.

Near future targets

- Commercialization of Fuel Cell Kits for research and educational institutions
- Development and Commercialization of Power packs for various portable electronic applications
- Hydrogen generation from water for transport applications on demand (> 6 wt%)

Benefits of collaborating with Ingsman

- Collaborators/ funding organizations (Universities/ Research Organizations/ Industries, CSIR Labs, etc.) will benefit a quality research output at a stipulated time frame.
- Efficient research strategy will be designed to minimize the budget estimates of the collaborators.
- Ingsman opens a direct and ready communication with its inspiring and innovative team of experts for fulfilling any research needs of collaborators.
- Ingsman designs and manufactures tailored product to fulfill diverse needs of collaborating organizations.

Executive leadership

Ingersoll J. Chinnappa, Ph. D.
President and Chief Executive Officer

Mani Narayanasamy, Ph. D.
Vice President, Research and Development

Thenmozhiyal J. Chinnappa, Ph. D.
Chief Scientific Officer

Annamalai Muthaiah
Vice President, Product Development

Arunachalam Ganesan
Chief Operating Officer

Kathiravan R. Subramanian
Vice President, Corporate Relations

Prabhakar Rajagopal
Vice President, Sales

Kathiravan Kaliamoorthy
Vice President, Systems

Contact information

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