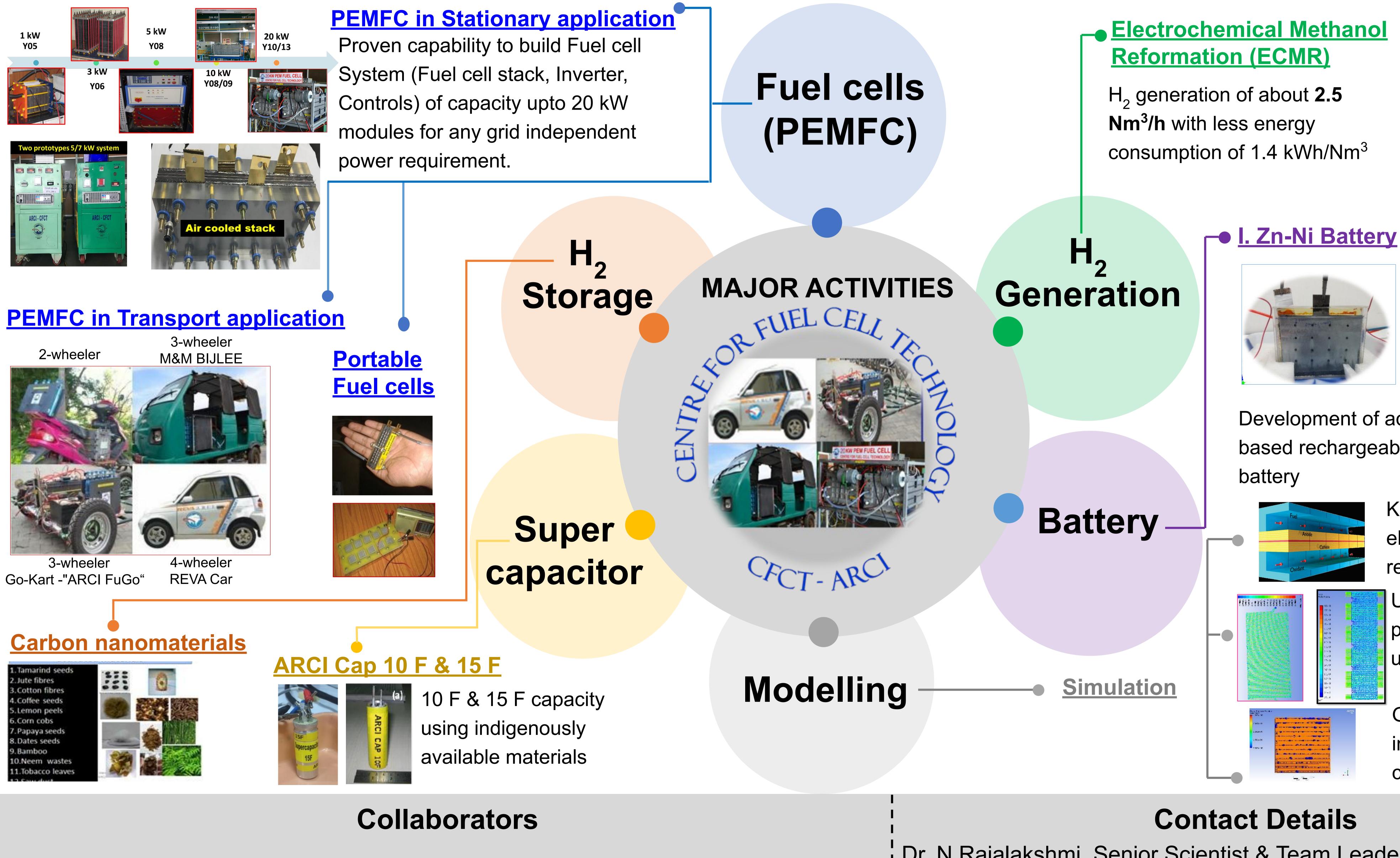


INTERNATIONAL ADVANCED RESEARCH CENTER FOR POWDER METTALURGY AND NEW MATERIALS -ARCI

(An Autonomous R&D Centre of Department of Science and Technology, Govt. Of India)

CFCT has been at the forefront of PEMFC development in the country. The Centre has developed process know how for the various components used in the fuel cell stacks and built fuel cell stacks of capacity up to 20 kW. The Centre has demonstrated the application of fuel cells in decentralized power generation as power packs and range extenders in electric vehicles. CFCT is also engaged in R&D activities related to fuel cells, hydrogen generation, hydrogen storage, Zn based batteries, supercapacitors and modeling.





















Dr. N Rajalakshmi, Senior Scientist & Team Leader-CFCT-ARCI, IITM, Research Park, Taramani, Chennai-600113; Phone: +91-44-66632707 E-mail: rajalakshmi@arci.res.in, Website: www.arci.res.in





II. Zn-Air Battery

Development of aqueous electrolyte based rechargeable Metal-air secondary

- Kinetic study of PEMFC electrochemical reactions
- Uniform flow distribution pattern optimized by using CFD

Gas bubble distribution in serpentine flow channel of ECMR