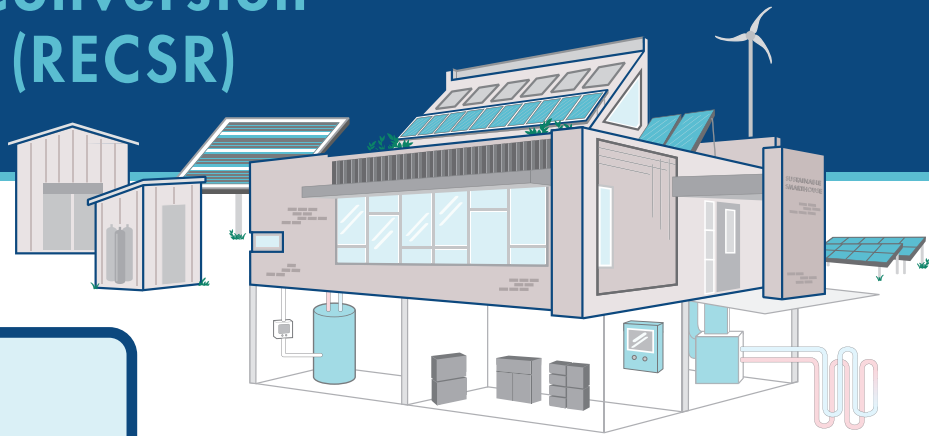


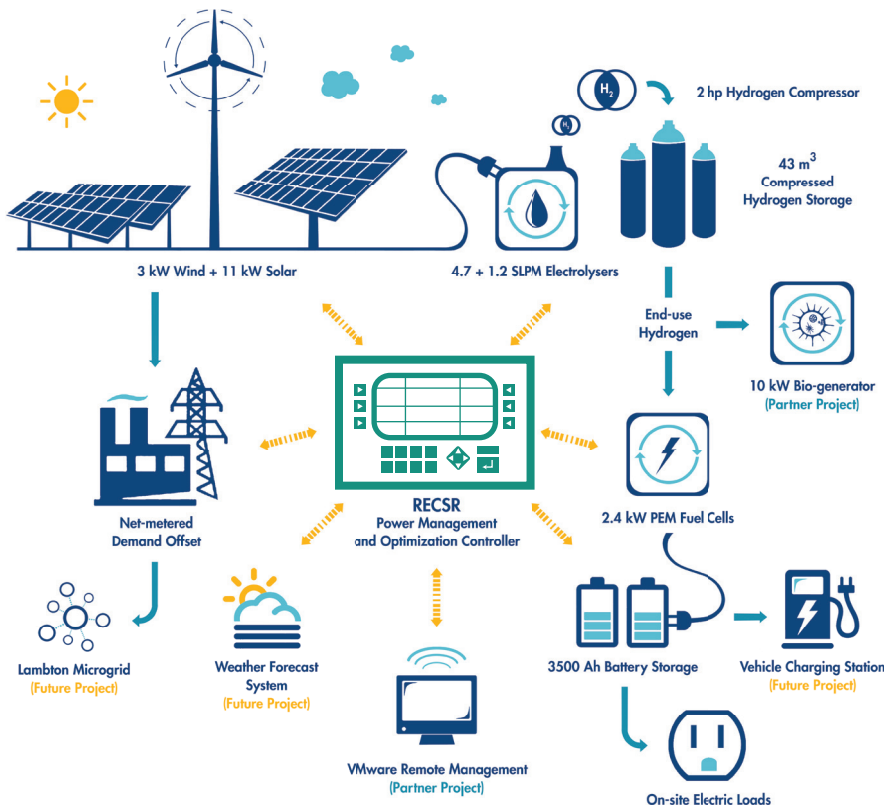
# Renewable Energy Conversion & Storage Research (RECSR)



## Project Goals

- Integration of hybrid Renewable Energy
- Development of smart Energy Management Controller
- Storage of excess energy as Hydrogen

—Sustainable Smart House  
Sarnia, Ontario



## Areas of Focus

- Performance analysis of wind, solar and bio-generator energy systems
- Power production and utilization management
- Modeling, analysis and simulation of micro-grid systems
- Energy conversion and storage as Hydrogen

## Energy Management Controller

- Optimize use of captured renewable energy based on production level and operating condition
- Wide range of key parameter selection for optimization
- Forecasting tool for supply, demand, conversion and storage
- Real-time information gathering and display

## Project Achievements

- Integration & prototyping of Renewable Energy systems
- Develop customized Energy Management Control system

## INDUSTRIAL COLLABORATORS & PARTNERS:



Applied Research  
& Innovation  
**Lambton**  
College

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## Project Team

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