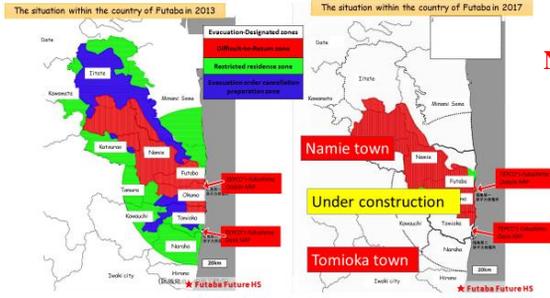


# Investigation for the Potential Introduction of Biomass Energy in the Fukushima Coastal Area

## Evacuation Status in Futaba Area

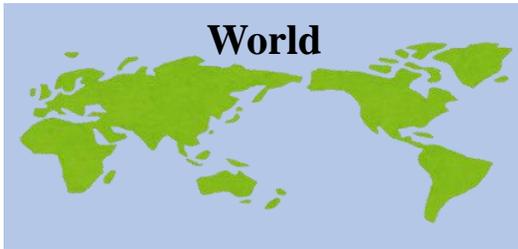
2706 Futaba Future School



Nuclear Crisis etc.

### Community problems

Decreasing youth population  
Less resilient communities  
Abandoned communities  
Tension and Division



Climate crisis etc.

### World problems

Climate refugees  
Less environmental support for growing population  
Tension and Division

### Global Issue

## Actions for Sustainable Development

## Actions for Community (Re)Vitalization

### FUTURE CREATING EDUCATION



## Methods & Results of Investigations for the Potential Introduction of Biomass Energy



### Why We Started the Investigation

To eliminate harmful, rootless, or negative rumors, making our hometowns frontiers of renewable energy from community waste, such as wild weeds or microbes in abandoned rice fields.

### Results

Succeeded in making a little bioethanol from the wild weeds. We learned the suitable conditions of soils needed for microbe generation.

→ Local generation for local use.

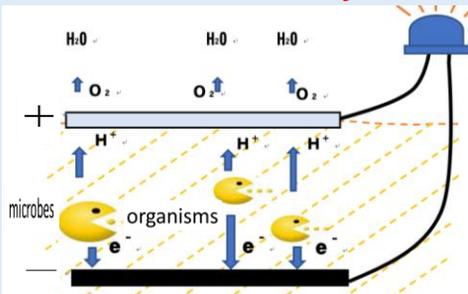
### 1. How to Get Bioethanol from Canadian Golden Rods



#### How we processed the weeds...

1. When the weeds were cut roughly by scissors, we could get little glucose.
2. When grinded in powder, we got a little moldy glucose.
3. When boiled, a little glucose without mold.
4. When processed too much, the glucose becomes acetic acid.

### 2. Generate Electricity with the Power of Microbes



Place of Soil	Characteristics	Electricity
Flowerbeds	Dry, large particles	0
Shallow Rice Field	Sticky, small particles	0
Deep Rice Field	Sticky, small particles with rotten smell	2mA for 2 months

## Conclusion

Clean & Sustainable Energy from LOCAL AREAs

- Economical & Technological Development
- Growth in Awareness of Global Issues
- Disaster Prevention
- Community Revitalization
- Sustainability...

Local Leading Model Communities of Renewable Energy

↕ shared will

Foreign Countries

