

# **Basic Seminar for Freshman**

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# Contents

- What is Basic Seminar?
- What we studied in Basic Seminar
- What we felt to Basic Seminar after the course

**What is Basic Seminar?**

# Purpose of Basic Seminar

Freshmen learn how to study in the university. It helps freshmen being motivated in more advanced study.

# Characteristic of Basic Seminar

- Classes have various styles.
- Freshmen can choose any classes as they like.
- The class has small numbers.

# Class Schedule(1)

1st week Orientation

2nd~9th week Individual Study

- We read books and journals about environmental problems.
- We investigated them by Internet, etc.
- We learned how to give a presentation.
- We wrote a report, gave presentations and had discussion in the class.

# Class Schedule(2)

10th~12th week Group Study

- We had a group discussion on environmental problems.
- We prepared a presentation and gave it.

# Class Schedule(3)

The final week

We visited a company (Tohoku Ricoh).



Simple design enabled ZERO EMISSION

What we studied  
in  
Basic Seminar.



# What is Fuel Cell?

Chemical energy is converted into electrical energy by a fuel cell.



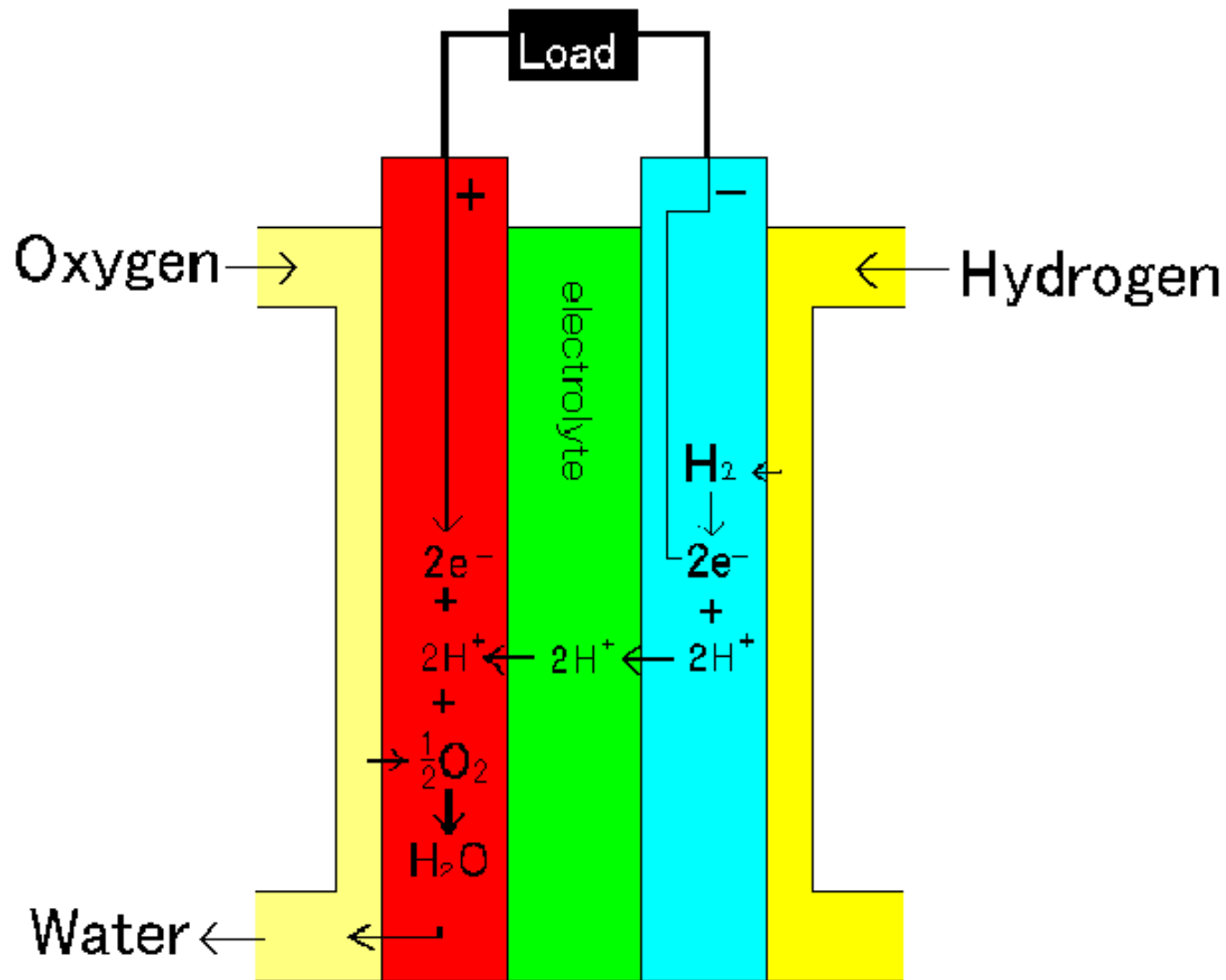
It is called 'Cell'.

Fuel Cell can't work without fuel.

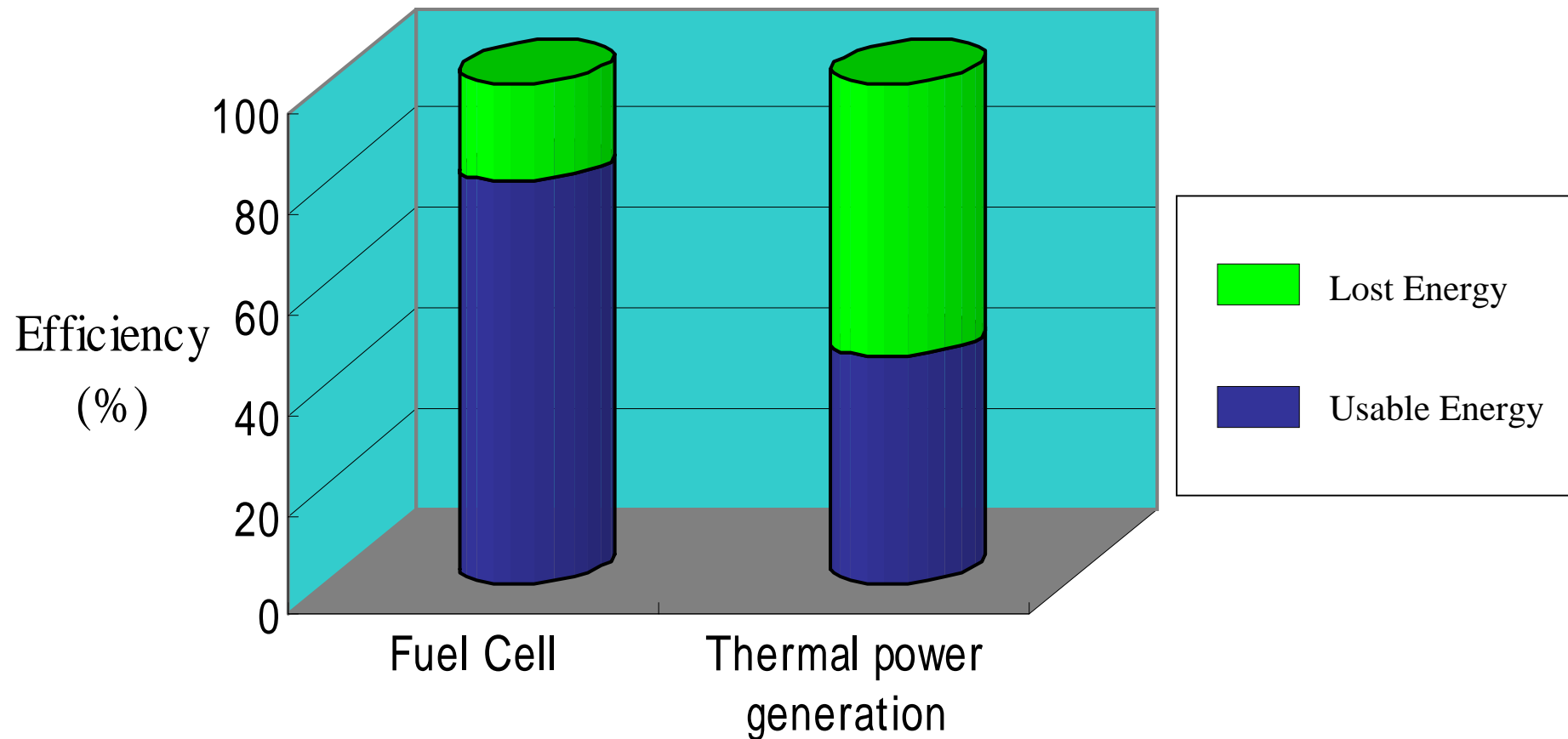


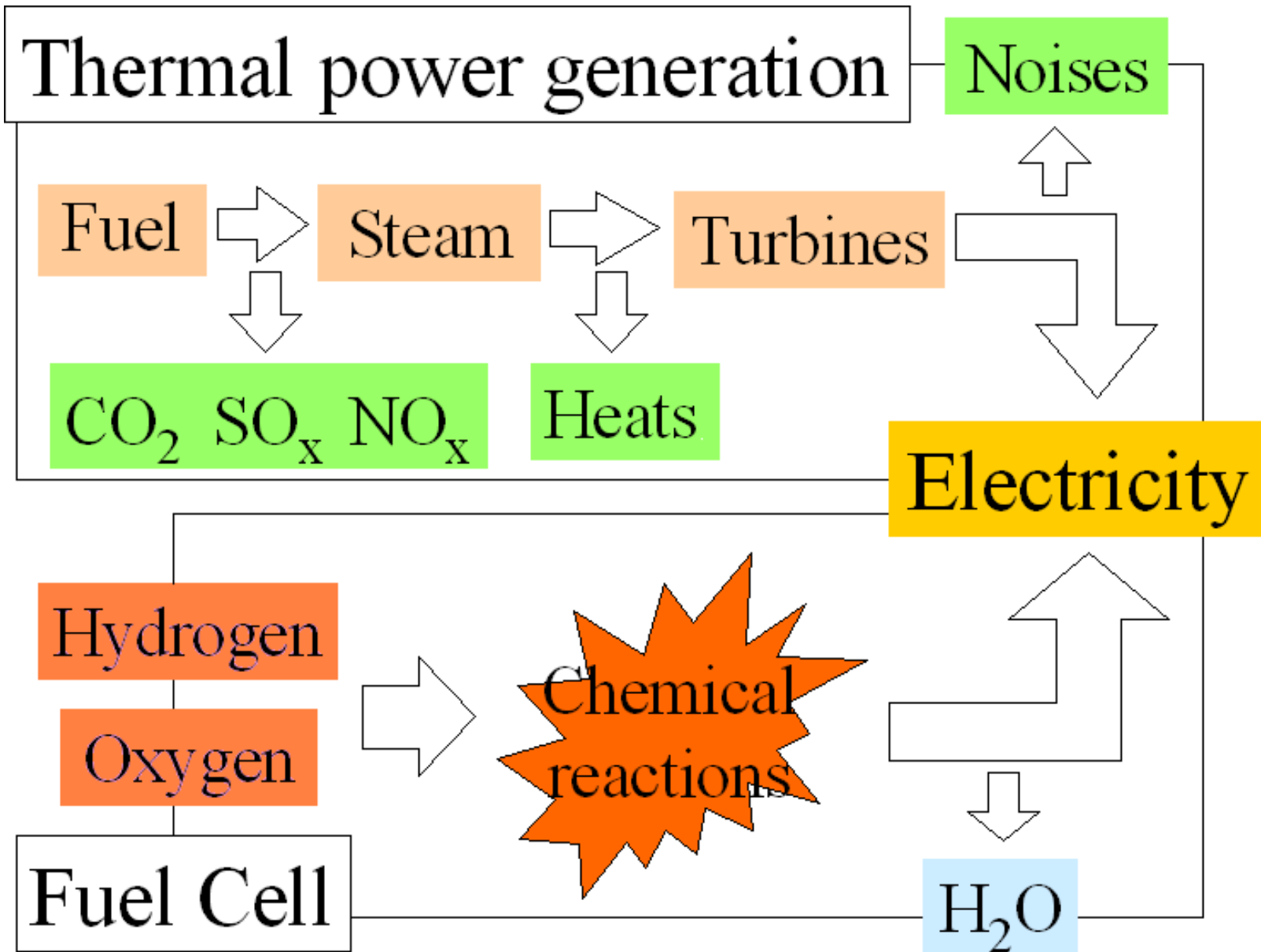
It is called 'Fuel Cell'.

# Power Generation System



# Why is Fuel Cell highly efficient?





# Problems

- Too expensive
- Too heavy and big



500,000~1,000,000  
Dollars !!!!

# Task of materials developments

1. Storage of Hydrogen
2. Electrode (Low cost catalysts)
3. Light weight Structural Materials

What we felt to  
Basic Seminar  
after the course.

# We thought that ...

- We were motivated.
- We could make a lot of friends.
- × The schedule was very short.
- × It was hard to understand contents.

# We wish ...

Class to be held through a year

Professor to prepare easier materials (papers)



# Acknowledgement

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