



SUPER GLOBAL HIGH SCHOOL



# Reformation of Awareness on Nuclear Power Plants with a Documentary Film

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## Abstract

The goal of this research is to raise the young generation's awareness and knowledge of nuclear energy; by doing so, creating a base for discussing this topic. A documentary film was made and screened. Data were gathered by conducting a survey before and after the screening. The data showed that when students become interested in nuclear energy, their opinions change as well. From this result, a new hypothesis can be made: watching this documentary enables students to view nuclear energy from multiple perspectives.

## Introduction

learned about nuclear energy in the third year of middle school



the discussion I had about nuclear power plants

**Pro: Data** vs **Against: Emotion**

The discussion was a disaster

## Goals

**Pro** → **Against**  
**Against** → **Pro**

The goal is not to change people's opinions

### Obstacles

- Low awareness amongst young generations
- Lack in knowledge
- Sources being passive
- Uninterest in events

**Goal:** Raise the young generation's knowledge and awareness and examine the effectiveness

## Method

Creating the documentary → Screening → Surveys → Analysis

## Contents

### 1. History



### 2. Launch



### 3. Communication



Dr. Kendall Mahn

### 4. Basics



Dr. Tetsuo Sawada

### 5. Fukushima accident



TEPCO

### 6. Recovery



20km Radius Tour

### 7. Local production



Enekei

### 8. France & nuclear



French Nuclear Councilor

### 9. Waste disposal



Horonobe Underground Research Center

### 10. Renewables



ISEP

### 11. How to gather info



CNIC

**Two languages**

Japanese 40 minutes  
English 40minutes

## Results<sup>2019</sup>

changed 1 ← → 5 unchanged

Interest	Position	Fukushima (207 students)					blank	sum
		1	2	3	4	5		
1		5%	7%	5%	0%	4%	0%	21%
2		2%	28%	10%	9%	10%	0%	58%
3		0%	1%	2%	2%	1%	0%	7%
4		0%	2%	1%	4%	2%	0%	9%
5		0%	0%	0%	0%	3%	0%	4%
blank		0%	0%	0%	0%	0%	0%	0%
sum		7%	38%	18%	16%	21%	1%	100%

Interest	Position	Okayama (22 students)					blank	sum
		1	2	3	4	5		
1		14%	23%	5%	0%	0%	0%	41%
2		5%	36%	9%	9%	0%	0%	59%
3		0%	0%	0%	0%	0%	0%	0%
4		0%	0%	0%	0%	0%	0%	0%
5		0%	0%	0%	0%	0%	0%	0%
blank		0%	0%	0%	0%	0%	0%	0%
sum		18%	59%	14%	9%	0%	0%	100%

Interest	Position	Summit (50 students)					blank	none
		1	2	3	4	5		
1		8%	24%	10%	2%	6%	0%	50%
2		2%	18%	8%	6%	4%	0%	38%
3		0%	0%	2%	0%	0%	0%	2%
4		0%	0%	2%	0%	2%	0%	4%
5		2%	2%	0%	2%	0%	0%	6%
blank		0%	0%	0%	0%	0%	0%	0%
sum		12%	44%	22%	10%	12%	0%	100%

## Analysis

### Reasons for change in interest

- able to learn something new
- able to see this problem from a new perspective

➔ Gain in knowledge and perspective

### Reasons for change in position

- learned why France is dependent on nuclear
- learned about renewables
- this problem should be seen from many perspectives

➔ Students took in ideas from opposing sides

## Conclusion

This documentary was effective in raising knowledge and serving as a **bridge**. That is because this documentary covered information from **many perspectives**. However, the **limitations of this documentary** must be examined as well. In order to do so, **more screenings** must be done.

## Screenings

8 schools in 3 countries, 2 film festivals, and 3 other

**2018 :** TGUISS, High School in Fukushima  
Michigan State University, Everett High School  
Civic Center in Odawara

**2019 :** High Schools in Fukushima, Osaka, Tokyo, and Okayama  
Nuclear Energy Summit,  
10th International Workshop Educational Co-research for Sustainability Program  
Fukushima Film and Media Festival,  
CSMA (Philippines)  
Eiga Worldcup2019 Award Winner Screening

### Resources

<sup>1</sup> 日本原子力文化財団 (2018) 「原子力に関する世論調査2018」 <<https://www.jaero.or.jp/data/01jigyuu/tyousakenkyu30.html>> p15,19,69,72,78

佐田務 「リスク認知は状況で変わる：対象への不安は知識不足のせいではない」 『日本原子力学会誌』 vol.61.no.8.2019年p56-57