



UN World Conference on  
Disaster Risk Reduction  
2015 Sendai Japan

# WCDRR

## Study Tours & Excursions

Multi-Stakeholder Segment

14-20 March 2015

Sendai Japan

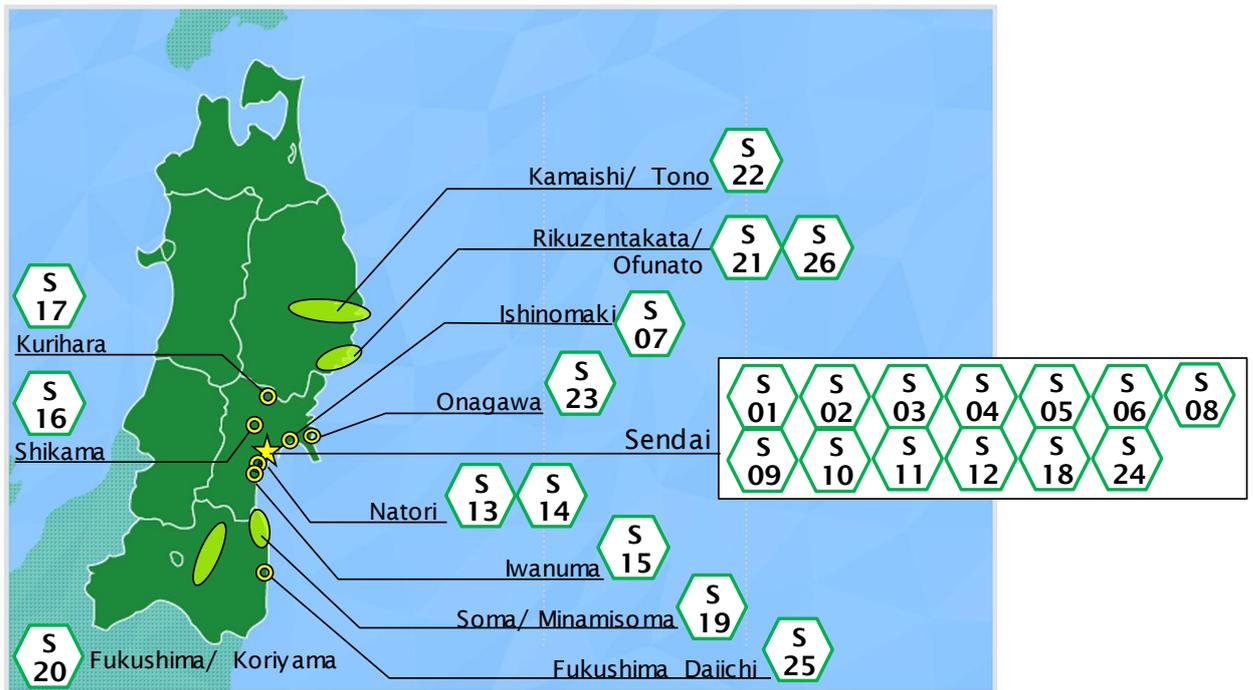
as of 11 March 2015

Organized by:

Sendai Committee for the UN World Conference on  
Disaster Risk Reduction

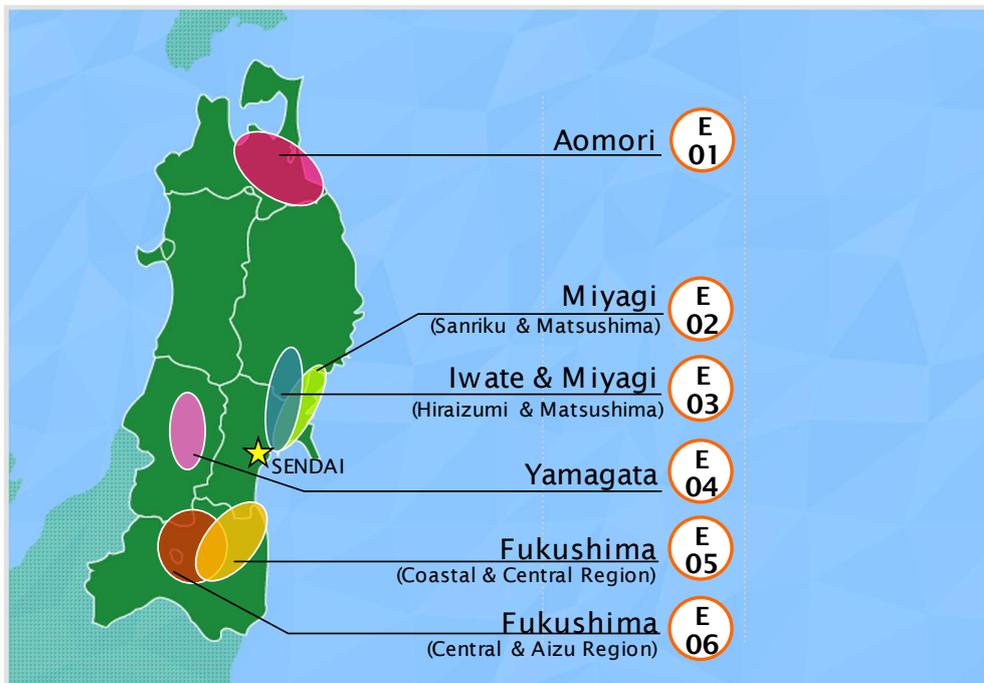
# Study Tours

14-18 March 2015



# Excursions

18-20 March 2015



# Study Tours

All Study Tours are **FREE of CHARGE.**

Registration is on a first-come-first-served basis.

## Saturday 14

Departure	Return	Tour ID	Theme	Meal
13:30	17:00	S16	Joint Public and Private Action for Regional Disaster Prevention and Advanced Disaster Prevention Technology for Housing: Working Together to Build a Disaster-Resilient Town	light meal (included)
13:30	17:40	S01	Multiple Defence Measures against Tsunami: Lessons Learned from the Great East Japan Earthquake	none

## Sunday 15

Departure	Return	Tour ID	Theme	Meal
7:00 (Metro)	10:00	S14	Experience Yuriage: Japanese Morning Market	available for purchase
8:20	11:00	S12	Efforts of the Private Sector for Disaster Risk Reduction: Experience a Disaster Drill in a Department Store	none
9:20	12:35	S01	Multiple Defence Measures against Tsunami: Lessons Learned from the Great East Japan Earthquake	none
9:50 - 15:50 (every 30 mins.)		S18	'Bosai' Industry Fair in Sendai: The Latest DRR Technologies and Products	none
13:30	15:45	S06	New Concept of Our Town: Installing both Disaster-Resilience and Eco-Friendliness	none
13:30	17:00	S15	Hills of 1,000 Years' Hope: Hills for Tsunami-Evacuation, and Efforts of Local Residents to Build a Resilient City	none
13:30	17:00	S16	Joint Public and Private Action for Regional Disaster Prevention and Advanced Disaster Prevention Technology for Housing: Working Together to Build a Disaster-Resilient Town	light meal (included)
13:30	17:20	S02	Resurrection of the Natural Environment in Tsunami-Affected Areas	none
14:00	16:20	S05	Visit a School Devastated by the Tsunami	none

(Metro) = Assembly at Hotel Metropolitan Sendai

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## Monday 16

Departure	Return	Tour ID	Theme	Meal
8:00	18:30	<b>S19</b>	Revitalizing Fukushima: Reconstruction from Tsunami and efforts of fishing industry	lunch (included)
8:00	19:00	<b>S21</b>	Accelerating the Reconstruction with the Latest Technology and Passing on Memory of the Disaster to Future Generations: Rikuzentakata's Large-Scale Land-Raising Projects and Ofunato's Disaster Memorial	lunch (included)
9:30	20:20	<b>S25</b>	Fukushima Daiichi Nuclear Power Station: Decontamination and Decommission	none
9:30	12:00	<b>S08</b>	Tohoku University Guided Tour <b>S08(A)</b> Academic-Industrial Collaborations in Cutting Edge Technology	none
9:40	11:50	<b>S11</b>	Disaster Risk Reduction Education for Children with Special Needs	none
9:50 - 15:50 (every 30 mins.)		<b>S18</b>	'Bosai' Industry Fair in Sendai: The Latest DRR Technologies and Products	none
12:30	18:30	<b>S07</b>	Recovery of Residents and Business in Ishinomaki: One of the Most Severely Damaged Cities	none
13:00	18:00	<b>S24</b>	Operation Tomodachi, Witness the Impressive Restoration of Sendai Airport and Business Continuity Management (BCM)	none
13:30	17:00	<b>S08</b>	Tohoku University Guided Tour <b>S08(B)</b> Reconstruction of Local Medical Services, the Future of Medicine	none
13:30	17:20	<b>S02</b>	Resurrection of the Natural Environment in Tsunami-Affected Areas	none
13:30	17:45	<b>S04</b>	Resilient Urban Infrastructure: Wastewater Treatment Plant & Gas Plant	none
13:30	17:50	<b>S03</b>	Agricultural Challenges in Tsunami-Affected Areas	light meal (included)
14:30	18:00	<b>S09P</b>	Efforts of the Private Sector for Disaster Risk Reduction: Case of a Brewery in a Tsunami-Affected Area for PRESS	beverage & snack (included)

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## Tuesday 17

Departure	Return	Tour ID	Theme	Meal
8:00	19:30	<b>S 26P</b>	Passing On of Teachings and the Efforts of Sanriku Railway: Kamaishi's passing on of tradition to future generations, and restoration works on the Sanriku Railway <i>for PRESS</i>	lunch (included)
8:15 (Metro)	17:30	<b>S 20</b>	Revitalizing Fukushima: Food safety	lunch (included)
8:30	17:00	<b>S 17</b>	Aratozawa, the Trace of the Greatest Landslide Disaster: Lessons Learned from the Iwate-Miyagi Inland Earthquake in 2008	lunch (included)
9:00	18:30	<b>S 23</b>	Reinvention every 1000 Years Security Measures Being Taken at the Onagawa Nuclear Power Plant, Using Lessons Learned from Past Disasters	none *Box lunch JPY 1,000
9:30	20:20	<b>S 25P</b>	Fukushima Daiichi Nuclear Power Station: Decontamination and Decommission <i>for PRESS</i>	none
8:40	11:00	<b>S 05</b>	Visit a School Devastated by the Tsunami	none
9:20	12:35	<b>S 01</b>	Multiple Defence Measures against Tsunami: Lessons Learned from the Great East Japan Earthquake	none
9:30	12:00	<b>S 08</b>	Tohoku University Guided Tour <b>S08(C)</b> Valuable Data Collection from the Great East Japan Earthquake and Introduction to Disaster Science Projects	none
9:30	12:00	<b>S 13</b>	Yuriage: A Historical Fishing Port Making Steady Progress in Recovery	none
9:50 - 15:50 (every 30 mins.)		<b>S 18</b>	'Bosai' Industry Fair in Sendai: The Latest DRR Technologies and Products	none
13:30	17:00	<b>S 08</b>	Tohoku University Guided Tour <b>S08(D)</b> Leading Research in the Fields of Agriculture, Natural Sciences, and Engineering	none
13:30	17:00	<b>S 16</b>	Joint Public and Private Action for Regional Disaster Prevention and Advanced Disaster Prevention Technology for Housing: Working Together to Build a Disaster-Resilient Town	light meal (included)
13:30	17:50	<b>S 03</b>	Agricultural Challenges in Tsunami-Affected Areas	light meal (included)
14:30	18:00	<b>S 09</b>	Efforts of the Private Sector for Disaster Risk Reduction: Case of a Brewery in a Tsunami-Affected Area	beverage & snack (included)

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## Wednesday 18

Departure	Return	Tour ID	Theme	Meal
8:00	19:30	S22	"The Miracle of Kamaishi" and Local Authorities Horizontal Supplementation: Disaster Prevention Education Measures in Kamaishi, and Logistic Support Activities in Tono	lunch (included)
9:30	20:20	S25	Fukushima Daiichi Nuclear Power Station: Decontamination and Decommission	none
13:00	15:45	S10	Disaster Prevention Education for Youth	none
13:30	17:00	S15	Hills of 1,000 Years' Hope Hills for Tsunami-Evacuation, and Efforts of Local Residents to Build a Resilient City	none
13:30	17:00	S16	Joint Public and Private Action for Regional Disaster Prevention and Advanced Disaster Prevention Technology for Housing: Working Together to Build a Disaster-Resilient Town	light meal (included)
13:30	17:40	S01	Multiple Defence Measures against Tsunami: Lessons Learned from the Great East Japan Earthquake	none



# Excursions

Registration is on a first-come-first-served basis

## Wednesday 18 - Thursday 19

Overnight

Departure	Return	Tour ID	Theme	Meal
16:00	19:30 Thu 19	<b>E 04</b>	Viewing the Natural Beauty of the Ice Monsters and Experiencing the Traditional Culture of Snow Country Let's Experience Yamagata Prefecture's Nature and Culture	a Dinner a Lunch

## Thursday 19

Day Trip

Departure	Return	Tour ID	Theme	Meal
7:50 (Metro)	17:45	<b>E 03</b>	Exploring the World Heritage Site and One of the Most Beautiful Bays in the World Golden Route of Tohoku - Matsushima and Hiraizumi	a Lunch

## Thursday 19 - Friday 20

Overnight

Departure	Return	Tour ID	Theme	Meal
7:50 (Metro)	16:30 Fri 20	<b>E 02</b>	Recovery of the Rias Coastline and Matsushima Bay's Miraculous Survival from the Tsunami From the Tsunami Disaster to Recovery - Developing a Disaster-Resistant Community	a Dinner two Lunches
7:50 (Metro)	17:30 <sup>*1</sup> Fri 20	<b>E 05</b>	Revitalizing Fukushima Overcoming from Disaster with the Concept of Building Back Better	a Dinner two Lunches
8:30 (Metro)	17:00 <sup>*2</sup> Fri 20	<b>E 06</b>	Revitalizing Fukushima Integration of Creation and Tradition for Fukushima	a Dinner two Lunches

(Metro) = Assembly at Hotel Metropolitan Sendai

\*1 End at Shin-Shirakawa, Fukushima Pref.

\*2 End at Koriyama, Fukushima Pref.



Information about below will be appended soon.

[Short Time Sightseeing Bus](#)

R01 Sendai-Go



# Study Tours

**S  
01** **Multiple Defense Measures against Tsunami:  
Lessons Learned from the Great East Japan Earthquake**

<b>Schedule:</b>	<b>S01</b>	Saturday 14 March	13:30 departure, 17:40 return
	<b>S01</b>	Sunday 15 March	9:20 departure, 12:35 return
	<b>S01</b>	Tuesday 17 March	9:20 departure, 12:35 return
	<b>S01</b>	Wednesday 18 March	13:30 departure, 17:40 return

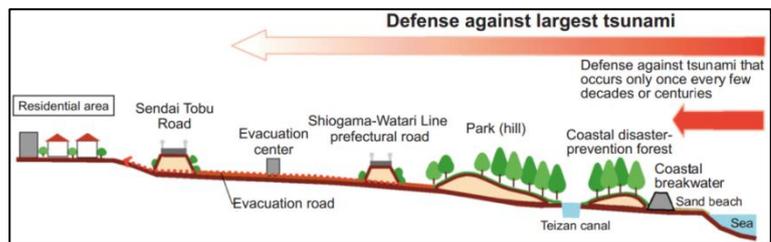
**Capacity:** 35 persons each day

**Meal:** None

**Price:** Free

**Multiple Defense Measures**

'We cannot completely control tsunamis' - that is the vital lesson which we have learned from the



Great East Japan Earthquake. In order to reduce the risk of tsunami, City of Sendai is now constructing multiple defense measures. That is the combination of coastal breakwaters, coastal disaster prevention forests, an elevated road, evacuation roads and so on.

In some coastal areas the risk of tsunami still remains after the multiple defenses are constructed. City of Sendai prohibits residents from living those areas and is promoting collective relocation to inland safe areas. Tour participants will observe the multiple defenses and disaster reconstruction municipal housings (from bus windows).



**Arahama Elementary School (ruined)**

Tour participants will go inside the school which was devastated by the tsunami, and witness the scars of the disaster. After that we will go up to the rooftop and have a wide view of the disaster affected area where reconstructions are being made.

**Tsunami Evacuation Tower**

On 14th and 15th, tour participants will visit the tsunami evacuation tower newly built by City of Sendai.

On 17th and 18th, we will visit Nippon Steel & Sumikin Metal Products Co., Ltd. This factory was flooded by the tsunami, but the well-trained employees properly evacuated and no one were harmed. On this tour we will listen to the factory director who survived the tsunami, about the DRR improvements made after the Great East Japan Earthquake.





## Resurrection of the Natural Environment in Tsunami-Affected Areas

<b>Schedule:</b>	<b>S02</b>	Sunday 15 March	13:30 departure, 17:20 return
	<b>S02</b>	Monday 16 March	13:30 departure, 17:20 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Gamo Tideland

Gamo Tideland is a natural tideland located at the estuary of the Nanakita River. It has communities of wild birds, such as snipe, plover, and heron. It is also blessed with many varieties of plants. On March 11, 2011 the tideland disappeared due to the massive tsunami. Four years later, thanks to the working of nature, the coast and tideland have been restored. Hopefully, the participants of this tour will have the chance to see some of the rare birds.



### Minamigamo Community

Minamigamo has a long history as a beautiful community with abundant nature. Before the disaster, this town was characterized by trees, such as Japanese Cedar and Zelkova, which surrounded residents' homes as a protection from strong winds and sand. These protective trees are known as Igune.

The Great East Japan Earthquake destroyed the farmlands and Igune. Although the whole area was severely damaged, the residents still love their community. They want to keep living in this area, so they have been growing seedlings for future Igune. The participants of this tour will meet residents who are actively reviving their community, partly by preparing for future Igune.

### Seaside Park Adventure Field

For hundreds of years there was a wide green belt all along the coast east of Sendai. However, the tsunami destroyed almost all of those trees. Since the disaster, City of Sendai and citizens have been working on planting projects.

When the earthquake occurred, several residents survived by evacuating to this field. On this tour you will hear the stories of the parks' management staff, who fortunately survived the tsunami.



## Agricultural Challenges in Tsunami-Affected Areas

<b>Schedule:</b>	<b>S03</b>	Monday 16 March	13:30 departure, 17:50 return
	<b>S03</b>	Tuesday 17 March	13:30 departure, 17:50 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	<u>Light meal will be served</u> (included)		
<b>Price:</b>	Free		

### Recovery of Agriculture in Eastern Sendai

The huge tsunami devastated the beautiful agricultural land in an instant. Large amounts of debris and salt were left on the agricultural land and many thought that farming here would never recover. However, we steadily removed the debris, and the salt content from the soil. Now, four years on from the disaster, all of the agricultural land is farmable again. We haven't restored the land to its pre-disaster state. We will explain our efforts to give the land a competitive edge that it did not have before the disaster.



### Restored Drainage Pump, Solar Panels

As the land here is low, water pump stations are indispensable. In the tsunami, the water pump stations were heavily damaged. In addition, because land subsidence occurred in the earthquake, even more electricity is required for drainage. In order to cover this economical loss, City of Sendai installed solar power devices.

### Michisaki, a Hydroponic Agriculture Factory

Hydroponic cultivation is a cultivation method that does not use the earth. With this, they were able to resume farming without waiting for the salt content in the soil to be removed. Moreover, using this method they are able to farm most crops all year round without being influenced by the weather. On this tour, participants can enter the factory and taste some of the vegetables produced by hydroponic cultivation.



### Chika-chan, an Onigiri Rice Ball Cafe

To raise the value of locally harvested rice, farming ladies make onigiri (rice balls) from the rice. This shop is an important place of activity for local women. Participants on this tour might be able to try some delicious Japanese food, such as onigiri, or mochi (rice cakes).





## Resilient Urban Infrastructures: Wastewater Treatment Plant & Gas Plant

<b>Schedule:</b>	<b>S04</b>	Monday 16 March	13:30 departure, 17:45 return
<b>Capacity:</b>	30 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Minami-gamo Wastewater Treatment Plant (WTP)

Participants on this tour will pick up hints on how to make coastal infrastructure resilient. The Minami-Gamo WTP is a large-scale plant that treats wastewater from Sendai's urban area. Situated near the coast, the plant was flooded by the tsunami that followed the Great East Japan Earthquake (GEJE), and wastewater treatment equipment was rendered non-functional.



All employees took appropriate evacuation measures, and none were injured or killed. However, wastewater treatment functionality was lost, and the possibility of wastewater backing up and overflowing into the city posed a serious hygienic risk. In the end, employees manually opened the valve to conduct an emergency discharge of wastewater, avoiding a crisis. A new WTP is currently under construction, which is designed to be disaster-resistant as well as environmentally friendly.



### Energy of Next Generation: Algae Biomass

We will introduce the latest experimental wastewater treatment technology. This technology uses algae that absorb the organic matter found in wastewater to produce hydrocarbons that can be used as fuel. If this technology is put to practical use, it will be possible to construct a revolutionary system that transforms the treatment of wastewater from a process that consumes large amounts of energy to a process that produces energy.

### Sendai Minato Gas Plant

This plant produces City Gas from Liquefied Natural Gas (LNG). In the GEJE, when port facilities were destroyed by the tsunami, tankers carrying LNG were unable to dock. However, this plant had a backup pipeline, making it possible to resume the supply of gas right away. After the earthquake, additional disaster risk reduction measures are being taken in order to avoid flooding.



## Visit a School Devastated by the Tsunami

<b>Schedule:</b>	<b>S05</b>	Sunday 15 March	14:00 departure, 16:20 return
	<b>S05</b>	Tuesday 17 March	8:40 departure, 11:00 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Arahama Elementary School, Guided by the principal who survived the Tsunami

On this tour, participants go inside the Arahama Elementary School building, which has been preserved unchanged since it was damaged by the tsunami, and listen to the school's principal at the time of the earthquake talk about his experiences.

The Arahama area is located in eastern Sendai, close to the Pacific Ocean. Since there are no tall buildings or high ground in the area, many of the residents evacuated to Arahama Elementary School when the Great East Japan Earthquake occurred. Around one hour after the earthquake, a 10m tsunami struck the area.

The school building was flooded up to the second floor, and local residents and school children evacuated onto the rooftop. A muddy stream surrounded the school building in every direction. After surviving a cold night inside the building, evacuees were finally rescued by a helicopter the following day. All of the students who remained at school were safe, however, one student who had gone home with their family lost her life.



While being guided by the school's principal, who led the students on the day of the disaster, participants will observe the severe damage caused by the tsunami, and that still remains in the building. Participants will also go on the rooftop and overlook the tsunami-affected area.

In the former classroom, a blackboard still remains with '11th March' and a collection of children's messages full of their thoughts written on it. When you see the messages, what kind of things will come to mind?



## New Concept of Our Town:

### Installing both Disaster-Resilience and Eco-Friendliness

<b>Schedule:</b>	<b>S06</b>	Sunday 15 March	13:30 departure, 15:45 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Green Community Tago-Nishi

In 2009, Sendai City and the Sendai Green Community Association launched an environmentally friendly property development project in the Tagonishi area of Sendai City. The company representing the association, Kokusai Kogyo had just started construction, when the Great East Japan Earthquake (GEJE) occurred on 11 March 2011.



Post-disaster, City of Sendai began an urgent search for inland locations suitable for the mass relocation of their coastal residents, whose old neighbourhoods were now designated as Disaster Hazard Areas and thus off-limits for reconstructing homes. As Green Community Tagonishi was close enough to pre-relocation neighbourhoods and at the same time safe from potential tsunamis, it was named by City of Sendai as one of the city's mass relocation areas.



Knowing that disaster-affected communities suffered extensive disruption to their livelihoods after the GEJE through the lack of electricity, the project design was changed to include energy self-sufficiency. Partners in academic, public, and private sectors were identified, government subsidies negotiated, and a solid technological, organizational, and financial foundation on which Green Community Tagonishi would become a disaster-resilient town was built.

The disaster resilient, low-carbon-footprint, nature-embracing Green Community Tagonishi, designed with the comfort of its residents in mind, has garnered attention as the embodiment of a new and positive direction in the reconstruction of disaster-affected areas and urban renewal.

## Recovery of Residents and Business in Ishinomaki: One of the Most Severely Damaged Cities

<b>Schedule:</b>	<b>S07</b>	Monday 16 March	12:30 departure, 18:30 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Hiyoriyama Hill

Ishinomaki City suffered the largest number of deaths of any municipality due to the Great East Japan Earthquake. On this tour we will look down from a 56m hill to view what was once a large residential area, completely destroyed by the tsunami. This experience will enable you to realize the severity of the tsunami damage.



### Nippon Paper Industries Ishinomaki Mill

This is one of the largest paper mills in the world. Because of the heavy damage from the tsunami, reconstructing this factory seemed impossible. However, despite all odds, the company executives decided to attempt its reconstruction. Thanks to the dedicated efforts of the employees, the factory was rebuilt, enabling the mill to reopen six months later. Now smoke from the mill is a symbol of the area's revival, which is a reason for locals to rejoice.

### Kadonowaki Elementary School

Because of the tsunami, gas cylinders and cars were washed out to sea; and their fuel caused extensive fires in the area. During that time, most people evacuated to this school. However, when the fires also reached this building, the evacuees escaped by climbing hill, behind the school. The ruins of the burned building show the severity of the disasters.

### Fishing Port & Tsunami Evacuation Building (Miyagi Express Corporation)

Ishinomaki is famous for its fishing industry. The fishing port, which was destroyed by the tsunami, will be completely rebuilt by 2015. It will be more functional than the previous one.

Miyagi Express is the trucking company transporting fish to various markets. Their headquarter was destroyed by the tsunami, and rebuilt as a tsunami evacuation building. The executive who survived the tsunami will tell you about his remarkable experience.

### Ishinomaki Community & Info Center

This center was built in order to inform the process of reconstruction and town development projects. Here you will see the future of this resilient city.



## Tohoku University Guided Tour

<b>Schedule:</b>	<b>S08(A)</b>	Monday 16 March	9:30 departure, 12:00 return
	<b>S08(B)</b>	Monday 16 March	13:30 departure, 17:00 return
	<b>S08(C)</b>	Tuesday 17 March	9:30 departure, 12:00 return
	<b>S08(D)</b>	Tuesday 17 March	13:30 departure, 17:00 return

(Note) Each tour has different destination.

**Capacity:** 39 persons per tour

**Meal:** None

**Price:** Free

**Detailed Information:** <http://drr.tohoku.ac.jp/en/archives/1302>



### **S08(A) Academic-Industrial Collaborations in Cutting Edge Technology**

- Materials and Electrical Research Institutes (Katahira Campus)



### **S08(B) Reconstruction of Local Medical Services, the Future of Medicine**

- Medical Research Facilities (Seiryō Campus)



### **S08(C) Valuable Data Collection from the Great East Japan Earthquake and Introduction to Disaster Science Projects**

- Global Research Center for Disaster Science
- Campus Library (Aobayama Campus)



### **S08(D) Leading Research in the Fields of Agriculture, Natural Sciences and Engineering**

- Science and Engineering Research Institutes (Aobayama Campus)

## Efforts of the Private Sector for Disaster Risk Reduction: Case of a Brewery in a Tsunami-Affected Area

<b>Schedule:</b>	<b>S09</b>	Tuesday 17 March	14:30 departure, 17:50 return
	<b>S09P</b>	Monday 16 March	14:30 departure, 17:50 return <b>for Press</b>
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	<u>Beverages and snacks will be served (including alcohol)</u>		
<b>Price:</b>	Free		

### Kirin Brewery Co.,Ltd. Sendai Plant

This large plant situated near Sendai Port supplies the entire Tohoku region. In 2008, Kirin Beer and the City of Sendai signed a tsunami evacuation agreement. This agreement provides for local residents to evacuate to the plant building in case of emergency.



In the Great East Japan Earthquake, a 7.6 m (at Sendai Port) tsunami struck the plant. The entire plant was flooded, but the well-trained employees evacuated to the roof along with local residents, and all were unharmed. However, canned beer ready for shipping was strewn around the plant's surroundings, and beer storage tanks suffered serious damage.



Six months later, the plant resumed operation. Thanks to this, employees were able to keep their jobs. The restored plant has many new and improved disaster risk reduction features. Seven safe evacuation areas have been prepared so that evacuation can be completed within 10 minutes whenever an earthquake strikes. Drills have been held at night and on weekends. Tanks have been earthquake-proofed and stockpiles (including food, water, blankets, fuel, generators, radios, and televisions) augmented. Additionally, the company-wide Business Continuity Plan was improved to be more practical. "How do we reduce disaster risk when operating near the coast?" In response to this general question, the example of Kirin Beer will provide a great inspiration.

### How can the private sector contribute to recovery?

After experiencing the disaster, Kirin Beer is focused on supporting local farming. One of its initiatives is the development of a new product using Japanese pear made in Fukushima. And Kirin Beer manufactured beer using the Tohoku hops as the first step of the recovery. Participants on this tour will be able to taste this product. It is a symbol of Tohoku's recovery.



## Disaster Prevention Education for Youth

<b>Schedule:</b>	<b>S10</b>	Wednesday 18 March 13:00 departure, 15:45 return
<b>Capacity:</b>	35 persons	
<b>Meal:</b>	None	
<b>Price:</b>	Free	

### Sendai Seiryō Secondary School

Sendai Seiryō Secondary school was founded in 2009. With the motto “Develop the Intellect, Nurture Sensitivity, Forge the Will” 820 students ages 12 to 18 study there over six years.

The school offers a unique education different from general Japanese junior and senior high schools, including “All-English Time” and small class sizes for English and math.

All third-year students take a training to become global leaders at the Ritsumeikan Asia Pacific University in Kyushu. And all fifth-year students take a trip to New Zealand, where they gain an international sensibility. By learning about the world, they deepen their awareness of Japan from a variety of perspectives, including culture, nature and government. Additionally, homestays and studying at local schools afford precious opportunities not only to improve their English abilities, but to get to know themselves.



### English Class Observation

On this tour, we will observe a 5th grade English class regarding disaster risk reduction. Students have just returned from New Zealand, so this is a time when their international sensibilities are heightened.

Students will hold discussions with each other in English. After the class ends, there will be time for tour participants

to pose questions directly to the students and teachers.

Many of the students experienced the Great East Japan Earthquake when they were 11-12 years old. Some have painful memories, including the loss of family members and friends, so please be considerate when asking questions. At any rate, by participating in this tour, you will gain a precious opportunity to converse with local students. The students of Sendai look forward to being able to communicate with you!

## S11 Disaster Risk Reduction Education for Children with Special Needs

<b>Schedule:</b>	S11	Monday 16 March	9:40 departure, 11:50 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		
<b>URL:</b>	<a href="http://fukkou.miyakyo-u.ac.jp/wcdrr2015/labschool.html">http://fukkou.miyakyo-u.ac.jp/wcdrr2015/labschool.html</a>		

### Miyagi University of Education's Affiliated School for Special Needs Education

As only national teacher training college in Tohoku, Miyagi University of Education (MUE) plays important roles in DRR management and Education at school environment.

MUE's Affiliated School for Special Needs Education puts inclusive DRR into its everyday practice, based on the lessons from 2011 earthquake and tsunami.



### Disability-inclusive DRR education



The laboratory school enrolls elementary to high school level students with developmental disorder, and emergency drills and other DRR-related activities are designed for the characteristics of the student body, considering the special need for those who may have more challenges at the time of disasters.

### Post 2011 Disaster Management at a Special Needs School

The special needs school has been improving its comprehensive school safety since the Great East Japan Earthquake and Tsunami, updating the school safety plan, emergency drill and a variety of education programs. As affiliated laboratory school located on the campus of the teacher training college, the partnership with university scholars is also utilized in the school governance. The school also implemented a structural reinforcement program supported by Ministry of Education. In this tour, you will hear from the administrators and teachers of the school on their recent activities and challenges related to inclusive DRR programs for school children.



## Efforts of the Private Sector for Disaster Risk Reduction: Experience a Disaster Drill in a Department Store

<b>Schedule:</b>	<b>S12</b>	Sunday 15 March	8:20 departure, 11:00 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Fujisaki Department Store & Aoba-dōri Community Planning Council

Aoba-dōri is a shopping arcade in the center of Sendai. Fujisaki is a longstanding department store located in the arcade that welcomes 20,000 customers a day.

Since before 2011, Fujisaki has cooperated with the Sendai Fire Department to hold disaster drill twice a year. The 11 March 2011 disaster occurred during business hours, but the results of the regular training were evident as staff were able to successfully direct customers to evacuate.



Based on the lessons learned in the disaster, Fujisaki decided to cooperate with Aoba-dōri Community Planning Council to improve disaster drill and make it even more practical. On this tour, participants will enter the department store and experience the training. You will be able to observe good practices in private-sector disaster risk reduction initiatives.



### Realistic Disaster Drill

As the drill begins, an Earthquake Early Warning Alert sounds throughout the store. Employees promptly take actions to protect themselves. After that, power is lost, and a fire breaks out. Employees attempt to extinguish the fire. In parallel, employees lead customers outside the store. After thoroughly checking that no customers remain in the store, all employees also evacuate the store.

A temporary first aid center is established, and injured persons are given emergency treatment. Persons with disabilities, pregnant women, children, foreigners, and others who require special assistance are assisted in accordance with a manual prepared in advance. This training will be carried out by around 350 employees, with a sense of urgency. This experience will give you valuable hints for your thinking in risk management.

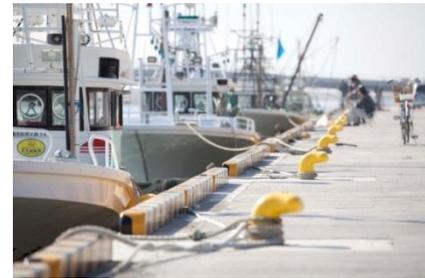
## Yuriage: A Historical Fishing Port Making Steady Progress in Recovery

<b>Schedule:</b>	<b>S13</b>	Tuesday 17 March	9:30 departure, 12:00 return
<b>Capacity:</b>	35 persons		
<b>Meal:</b>	None		
<b>Price:</b>	Free		

### Yuriage Fishing Port

A little over 10km from the center of Sendai, Yuriage is a fishing port with a 400-year history. It's best known as a producer of ark shells that are prized in sushi shops all over Japan.

In the Great East Japan Earthquake, Yuriage was struck by a 9m tsunami, and around 750 lives were lost here. The City of Natori intends to re-build Yuriage on its former site, and will not conduct a collective relocation project for its residents. In order to build a safer town, the city is constructing seawalls and elevating the ground, as well as establishing evacuation routes and educating residents on disaster prevention.



### Listening to a Storyteller

Yuriage has a storytelling club. Its members convey lessons from the Great East Japan Earthquake to visitors in their own words. This continuing activities raise awareness of disaster risk reduction for both residents and visitors. Participants on this tour will walk through residential areas destroyed by the tsunami while listening to the experiences of members of the storytelling club.

### Maple Pavilion in Yuriage Port Morning Market

After the disaster, Yuriage received aid from Canada and built the Maple Pavilion. The Pavilion contains a café, shop, and restaurant and is also used as a base for disaster prevention education. In this building, you will witness how the tsunami destroyed Yuriage (watching a video). Also City of Natori will explain about countermeasures against disasters and rebuilding project of Yuriage Port Morning Market as an example of quick recovery on its former site.

[Additional Information] In Yuriage, NPO OISCA will also organize a bus tour on 15 March 2015.

For more information and reservation, please refer <http://www.oisca-international.org/> or [click here](#).



## Experience Yuriage: Japanese Morning Market

- Schedule:** **S14** Sunday 15 March 7:00 assembly at hotel, 10:00 return
- Capacity:** 35 persons
- Meal:** Light meal can be purchased.  
For your enjoyment, it is recommended to bring some Japanese Yen.  
(approx. 2,000 - 3,000 JPY)
- Price:** Free

### Resurrection of Morning Market

Participants in this tour will feel the efforts of the private sector to recover from the Great East Japan Earthquake.

The Yuriage Port Morning Market held every Sunday and national holiday is long loved by local residents. It was destroyed by the tsunami, but in May 2013 resumed in its original location. This revival greatly encouraged local residents.

The goal of shop owners is not only to restore the morning market to its previous state, but to grow it into a tourist attraction that will draw visitors from around Japan and the world. Currently, this market has around 50 shops. In addition to seafood shops, there are also meat, vegetable, fruit, and flower shops, and even restaurants, bakeries and cafes. As a result of the efforts of shop owners, the market is overflowing with activity, with twice as many customers as before the disaster.

Participants in this tour will walk around the morning market and have the opportunity to shop on their own (40 minutes). You can also enjoy grilled seafood fresh from the ocean. This experience will provide you with an opportunity to think about recovery from a large disaster.



### Meaningful Morning

Participating in this tour will allow you to make effective use of your morning time. On the bus from Sendai to Yuriage and at the Maple Pavilion, the City of Natori will briefly explain its disaster-prevention efforts.

### Hills of 1,000 Years' Hope

#### Hills for Tsunami-Evacuation, and Efforts of Local Residents to Build a Resilient City

<b>Schedule:</b>	<b>S15</b>	Sunday 15 March	13:30 departure, 17:00 return
	<b>S15</b>	Wednesday 18 March	13:30 departure, 17:00 return

**Capacity:** 35 persons per day

**Meal:** None

**Price:** Free

#### Hills of 1,000 Years' Hope

The Hills of 1,000 Years' Hope are multipurpose hills built mainly from tsunami debris after the Great East Japan Earthquake. In the event of a tsunami, visitors can quickly evacuate to the top of these hills. In addition, volunteers from all over the country have planted 100,000 trees so far on the raised garden paths connecting the hills. These trees are expected to serve the function of dampening the power of tsunamis.



These hills also serve as sites for disaster-prevention education, memorials of the disaster, and tourist attractions. Visitors are able to see pictures taken at the time of the disaster, and listen to the experiences of the residents by using tablets and smartphones. The hills and garden paths planted with trees will defend local residents for 1,000 years without decay.

#### Mega-Scale Solar Power Plant

Agricultural land that became unusable due to damage from the tsunami and land subsidence gained new life as the site of a solar power plant. Around 113,000 solar panels generate renewable energy equivalent of the electricity consumption of 8,000 households. That is the largest solar power plant located in the farmlands flooded by the tsunami.



#### Disaster-Prevention Collective Relocation

In Iwanuma City, the residents of six villages near the coast and others were collectively relocated inland. In the Tamaura area, a new town of over 1,000 residents will be created. Residents consulted with each other to decide how to locate the villages and divide the land. The reason for the town's success is that residents did not depend on the government, but took the initiative themselves. The tour participants will have the opportunity to converse with residents of the area.



## Joint Public and Private Action for Regional Disaster Prevention and Advanced Disaster Prevention Technology for Housing - Working Together to Build a Disaster-Resilient Town

<b>Schedule:</b>	<b>S16</b>	Saturday 14 March	13:30 departure, 17:00 return
	<b>S16</b>	Sunday 15 March	13:30 departure, 17:00 return
	<b>S16</b>	Tuesday 17 March	13:30 departure, 17:00 return
	<b>S16</b>	Wednesday 18 March	13:30 departure, 17:00 return

**Capacity:** 39 persons each day

**Meal:** Light meal will be served (included)      **Price:** Free

**URL:** <http://www.sekisuihouse.co.jp/english/topics/datal/icsFiles/afieldfile/2015/01/30/20150130.pdf>

Please see our disaster drill on Youtube! ▶ <http://youtu.be/AByFXlybO2Y>

### Sekisui House Tohoku Factory

The production factory of major housing manufacturer Sekisui House, Ltd. is located



in the Town of Shikama. After the Great East Japan Earthquake, in 2013, Sekisui House and the Town of Shikama signed an agreement in which the company pledged to accommodate 250 residents for seven days after a disaster.

The Town of Shikama, Sekisui House, and local residents collaborate to hold regular disaster-prevention trainings. In the event that the town hall were damaged in a disaster, the town's disaster response headquarters would be set up in the privately-owned factory which can withstand a large earthquake and a power outage. This advanced public-private collaboration is one of the most progressive examples to be found in Japan. We believe it will be a useful reference for countries looking to enhance their disaster response ability.

### Disaster-Resilient Communication Network (Regional WiMAX)



The Town of Shikama established a Regional WiMAX high-speed wireless network. With this, transmission of emergency information to residents is possible even if normal communications are disrupted due to an earthquake or other disaster. On this tour, we will explain the importance of a disaster-resilient communication network.

### The Latest Residential Disaster-Prevention Technology

On this tour, you can experience the latest residential disaster-prevention technology, designed to save lives from natural disasters including earthquakes, fires, and storms. We will introduce them with plenty of demonstrations.

## Aratozawa, the Trace of the Greatest Landslide Disaster: Lessons Learned from the Iwate-Miyagi Inland Earthquake in 2008

<b>Schedule:</b>	<b>S17</b>	Tuesday 17 March	8:30 departure, 17:00 return
<b>Capacity:</b>	39 persons		
<b>Meal:</b>	<u>Lunch will be served</u> (included)		
<b>Price:</b>	Free		

### Aratozawa Landslide Site (Kurihara City)

Participants on this tour will witness the danger posed by an inland earthquake, as opposed to subduction zone earthquakes such as the 2011 Earthquake off the Pacific Coast of Tohoku.

The magnitude 7.2 Iwate-Miyagi Inland Earthquake occurred in June 2008. Kurihara City was one of the areas where the greatest shaking was observed. As a result of this earthquake, large-scale landslides occurred upstream of Aratozawa Dam. With a length of 1,300 m, a width of 900 m, and a soil volume of 67 million m<sup>2</sup>, the scale of the landslide was among the largest in Japan. City of Kurihara is attempting to use these characteristic landforms for DRR education, academic research, and tourism.



[Note: In the event of inclement weather, the field visit may be replaced with an indoor presentation.](#)

### Heilsam Kurikoma

Mt. Kurikoma is an active volcano with an elevation of 1,626 m that last had a small-scale eruption in 1944. On the other hand, volcanoes provide us with majestic scenery and the natural blessing of hot springs. Heilsam Kurikoma is a resort where hot springs well up in abundance. On this tour, we will eat lunch and experience the hot springs here.



### Experience the shake of the Inland Earthquake in 2008

The Kurihara Fire Department introduced an earthquake simulator. Local residents can experience one-minute-shaking, which is the simulation of the Iwate-Miyagi Inland Earthquake in 2008. This experience raises residents' disaster awareness, and is expected to contribute to disaster risk reduction.

Participants on this tour can experience the earthquake simulator to find out how violent the shaking was in the Iwate-Miyagi Inland Earthquake. In addition, you can try the virtual training\* of using fire extinguishers, and an escape from smoke caused by fire.

\* If we have enough time



## 'Bosai' Industry Fair in Sendai: The Latest DRR Technologies and Products

A free shuttle bus will run every 30 minutes to Sendai International Center, Sendai Mediatheque, and exhibit venues (YUME MESSE MIYAGI).  
(In the bus there are no interpreters/guides, but at exhibit venues there will be English-speaking staff.)



**Timetable:** [http://www.bosai-sendai.jp/doc/S18\\_timetable.pdf](http://www.bosai-sendai.jp/doc/S18_timetable.pdf)

**Date:** 15 - 17 March 2015      **Price:** Free

**URL:** <http://www.nikkan.co.jp/eve/tohoku-bousai/eng/>

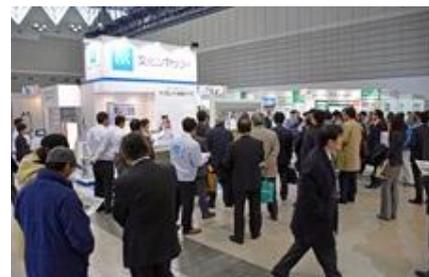
### “Bosai” Industry Fair in Sendai

This 3-day event, held at YUME MESSE MIYAGI, restored after the devastating tsunami, will showcase Japan’s holistic approach to reduce disaster impact technologies and products that proved useful in the Great East Japan Earthquake and supported swift reconstruction efforts. The exhibition displays the latest technologies based on the lessons from disaster (Ex: energy, information, and traffic disruptions), showing a truly holistic approach to disaster reduction impacts.

#### Technologies Exhibition \* English Staff Available

Date: March 15-17 10:00-17:00

Inside Tohoku's largest exhibition space (7,500 m<sup>2</sup>), over 100 diverse companies and groups – from infrastructure-related companies to automobile makers – will display useful technologies and products in peacetime as well as emergency.



#### Symposium \* Simultaneous Interpretation Available

Date: March 16 10:30-16:00

Company representatives will introduce the origins and applicability of their products and explore issues and future efforts to contribute their technologies to a global holistic approach for reducing disaster impacts.



## Revitalizing Fukushima: Reconstruction from Tsunami and efforts of fishing industry

**Schedule:** S19 Monday 16 March 8:00 departure, 18:30 return  
**Capacity:** 40 persons  
**Meal:** Lunch will be served (included)  
**Price:** Free

### Soma port, Matsukawa fishery port and Soma fisherman association

Soma port, which is one of major ports in Fukushima Prefecture, and Matsuura fishery port both suffered extensive damage from the tsunami caused by the Great East Japan Earthquake. Through listening about the current reconstruction, you will recognize the reality of the reconstruction in Fukushima Prefecture.

In addition, it will be explained how Fukushima Prefecture has tackled test fishing and radioactive materials monitoring and this visit will deepen your understanding of food safety in Fukushima.



### Strawberry farm

Through listening to an explanation about how the Strawberry farm hit by Tsunami was reopened, you will understand how citizens of Fukushima Prefecture contribute to the reconstruction. After the short presentation, you will enjoy fresh strawberry picking in the fruit kingdom Fukushima.

### Soma reconstruction support Centre

Visit the 'Soma reconstruction support Centre' that acts as a disaster-prevention facility. This centre is used as sport facility in ordinary times and has an additional function of conducting disaster education and disaster drills. In case of emergency, the centre will be used as a disaster-prevention facility. This visit will provide more understanding about the whole concept of disaster-prevention facilities.

### Public housing for afflicted people by the Great East Japan Earthquake

Public housing for afflicted people by the Great East Japan Earthquake is being rapidly constructed. The concepts behind public housing in Soma city include preventing elderly and/or solitary residents from isolation as well as maintaining original communities that were formed before the earthquake. Through visiting and hearing the briefing on such public housing you will recognise a true component of 'building back better'.



## Revitalizing Fukushima: Food safety

- Schedule:** **S20** Tuesday 17 March 8:15 assembly at hotel, 17:30 return
- Capacity:** 40 persons
- Meal:** Lunch will be served (included)
- Price:** Free

### Fukushima Agricultural Technology Center

Fukushima Agricultural Technology Center conducts radioactive materials monitoring for the entire Fukushima Prefecture and plays the most important role in this context. Staff will explain the measurements of monitoring and you will get to see the actual monitoring procedures. Though this visit, you will find out how Fukushima considers and conducts food safety after suffering from nuclear power station accident.



### Sake breweries

Fukushima won the most golden awards of sake, and ranked No.1 in Japan for the past 2 years. Understand sake making as well as learn much about sake's magnetism.

During the visit, radioactive materials monitoring during sake making will also be explained.

### Fukushima-city School lunch center

Most of Japanese schools provide school lunch. Fukushima city implements radioactive materials monitoring of school lunches for public schools. Deepen your understanding of how the city tackles food safety for children.



### Strawberry picking at the agriculture kingdom

Enjoy strawberry picking and find out about the agriculture kingdom of Fukushima. Listen to a briefing about reconstruction in the field of agriculture.

**Accelerating the Reconstruction with the Latest Technology and Passing on Memory of the Disaster to Future Generations: Rikuzentakata's Large-scale Land-raising Projects and Ofunato's Disaster Memorial**

**Schedule:** **S21** Monday 16 March 8:00 departure, 19:00 return  
**Capacity:** 40 persons  
**Meal:** Lunch will be served (included)  
**Price:** Free

Each tour participant may choose either **(A)** or **(B)**

**A The Elders, the Handicaps, and the Disaster Symposium**

To create a city where everyone can live in peace, Rikuzen Takata, Iwate announced the new approach with the help of the citizens to commit restoration and to “make normalization without further words.”

Sponsored by: Rikuzen Takata City, UNDP, JDF  
 Cosponsored by: Singapore Government, The Nippon Foundation.

**B Inspecting Rikuzen Takata City, and the Ofunato Tsunami Museum**



In Rikuzen Takata, Iwate, a belt conveyor of about 3km conveys the earth and sand to accelerate restoration. Inspection of this belt conveyor, aka “the bridge of hope”, or “the miracle pine tree” since it survived the tsunami, is permitted. Also, video commentary and stories from the experienced will be hold in “Ofunato Tsunami Museum” in Ofunato, Iwate.

In order to help preventing disasters throughout the world, Iwate has collected its records of effort and lessons learned from the Great East Japan Earthquake, and will pass these informations (electronic medium) to all who attends the study tour.



**"The Miracle of Kamaishi" and Local Authorities Horizontal Supplementation:  
Disaster Prevention Education Measures in Kamaishi, and Logistic Support  
Activities in Tono**

**Schedule:** **S22** Wednesday 18 March 8:00 departure, 19:30 return  
**Capacity:** 40 persons  
**Meal:** Lunch will be served (included)  
**Price:** Free

**Tono Disaster Control Center**



The supporting base set by Tono City in the inland of Iwate has helped support the places which suffered great damage during the Great East Japan Earthquake. Visit "Tono Disaster Control Center" founded in Jun. 2012 as you listen to how they supported the damaged villages.

**Unosumai Area, Miracle of Kamaishi**



Kamaishi, Iwate has always been preparing children for preventing disasters from tsunami by evacuation training. In Unosumai, Kamaishi, children has escaped from disasters by evacuating by themselves, listen to the locals' stories.

**The Tsunami Monument in Hongo Area of Kamaishi City**



Visit the Tsunami Monument from the Sanriku Tsunami in the Meiji, Showa Era in Hongo Area of Kamaishi City, and listen to the experiences of the locals.

In order to help preventing disasters throughout the world, Iwate has collected its records of effort and lessons learned from the Great East Japan Earthquake, and will pass these informations (electronic medium) to all who attends the study tour.

**Reinvention every 1000 Years:  
Security Measures Being Taken at the Onagawa Nuclear Power  
Plant, Using Lessons Learned from Past Disasters**

**Schedule:** S23 Tuesday 17 March 9:00 departure, 18:30 return  
**Capacity:** 30 persons  
**Meal:** None  
**Price:** Free ( S23L with a box lunch JPY1,000)

**Ishinomaki Fish Market**

The radiation measurement system used at the Ishinomaki Fish Market was developed together with the Tohoku University. This system continuously measures radiation levels without harming the fish.

While observing the radiation measurement system in progress, an explanation will be made on the efforts carried out by the Ishinomaki Fish Market to offer safe and fresh fish to consumers.



**Onagawa Regional Medical Center**



After suffering great destruction in the earthquake disaster, efforts are underway in Onagawa Town to develop a “once in a thousand years community” together with the town citizens.

An explanation will be made on the developments of a “compact community” and the town’s future plans, while surveying the port town from the Onagawa Regional Medical Center. The

community development carried out in this town appropriately responds to the decreasing population and aging society while advancing with the recovery efforts in this region.

**Onagawa Nuclear Power Plant**

When the Great East Japan Earthquake occurred, all reactors at the Onagawa Nuclear Power Plant safely shut down. It can be said that this occurred because of measures that were developed based on past tsunami disasters.

Since the earthquake disaster and based on the Fukushima Daiichi Nuclear Power Plant accident,

efforts to develop various safety measures have been carried out. The purpose of the facility’s tour is to share with the international community the different measures carried out here and to play a role in the development of international nuclear power safety measures.





## Operation Tomodachi: Witness the Impressive Restoration of Sendai Airport and Business Continuity Management (BCM)

**Schedule:** **S24** Monday 16 March 13:00 departure, 18:00 return

**Capacity:** 30 persons

**Meal:** None

**Price:** Free

### Sendai JX Nippon Oil & Energy Corporation Refinery

JX Nippon Oil & Energy Corporation Refinery implemented measures to reserve energy necessary for daily life during times of disaster based on the chaotic experience and conditions that ensued immediately after the disaster due to the lack of fuel. This study tour will include a visit to the Tohoku region's sole oil refinery factory and mega-solar facilities and an explanation will be made on the accomplishments of the company's emergency shipment during the disaster and its complete restoration one year after the disaster, as well as its safety measures and energy securement measures developed after the disaster.



### Port of Sendai-Shiogama

Port of Sendai-Shiogama was devastated by the Great East Japan Earthquake, and the amount of freight containers the port handled fell to roughly 40 percent of its pre-disaster levels. However, presently the port has recovered to pre-disaster levels because of the swift restoration of the container terminal and the promotion of the port carried out in cooperation between the private and public sectors. Port of Sendai-Shiogama was integrated with Port of Ishinomaki and Port of Matsushima to create the new and the only international hub port for the Tohoku region.

### Yume Messe Miyagi: "BOSAI" Industry Fair in Sendai

The "BOSAI" Industry Fair in Sendai will take place at the newly restored Yume Messe Miyagi exhibition hall, which was damaged by the disaster. This fair will be held in conjunction to WCDRR.



### Sendai Airport

Sendai Airport reopened approximately one month after the disaster in due part to the recovery efforts carried out by the U.S. Forces. Sendai Airport served as a base for *Operation Tomodachi*. In a short period of time, the airport was restored and once again became the air gateway to the world, as well as a symbol of Miyagi's "innovative recovery." Through its privatization in the future, the airport is expected to further grow.





S25 / S25P Reservations have already closed.



### Fukushima Daiichi Nuclear Power Station: Decontamination and Decommission

<b>Schedule:</b>	<b>S25</b>	Monday 16 March	9:30 departure, 20:20 return	
	<b>S25</b>	Wednesday 18 March	9:30 departure, 20:20 return	
	<b>S25P</b>	Tuesday 17 March	9:30 departure, 20:20 return	<b>for Press</b>

**Capacity:** 20 persons per day  
**Meal:** None (Meal break: at your own cost)  
**Price:** Free

#### About

Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station, in Fukushima Prefecture, began operation in 1971 and has six nuclear reactors, the total capacity of which is 4,696 MW. The power station is located approximately 250 km (155 miles) north of Tokyo, facing the Pacific Ocean.

#### Outline of nuclear power station accident



With the Great East Japan Earthquake, Tokyo Electric Power Company (TEPCO) lost all the off-site power supplies at the power station. At first, the emergency power was in operation, but soon this was also lost by flooding from tsunami. Because of losing electrical power, the cooling process, which requires the transport of water to the reactors, become inoperable. Due to this situation, the amount of water in the reactor pressure vessels of Units 1 to 3 decreased. And finally the hydrogen explosion has occurred, resulted in the release of large amounts of radioactive materials from the power station.

#### Current Approach



Measures for decommissioning and contaminated water management are now in progress. As recent achievements, preparation of the fuel removal from Spent Fuel Pools is also under way, and the removal from Unit 4 Pool was completed on December, 2014.



#### Revitalization of Fukushima

Basic premise of Fukushima's reconstruction is settlement of the accident at Fukushima Daiichi. TEPCO has primary responsibility to decontaminate and decommission Fukushima Daiichi safely, and is committed to work diligently until its completion. The Government of Japan has decided to assume a proactive role to achieve a fundamental settlement of this issue.



S  
26P

**Passing On of Teachings and the Efforts of Sanriku Railway:  
Kamaishi's passing on of tradition to future generations, and restoration  
works on the Sanriku Railway**

**Schedule:** S26P Tuesday 17 March 8:00 departure, 19:30 return **for Press**  
**Capacity:** 40 persons (including 18 invited press persons)  
**Meal:** Lunch will be served (included)  
**Price:** Free

### Efforts of Passing on the Aftermath in Kamaishi



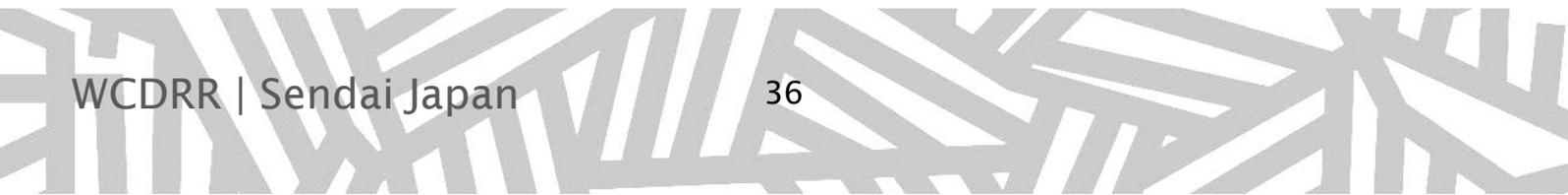
In order to pass on the memories of the Great East Japan Earthquake to the future, and to make sure that all people know where to evacuate when tsunami occurs, youngsters in Kamaishi, Iwate joins the “Idaten Race” where they have to race to the elevation in the city. Hear from the sponsors.

### Sanriku Railway



The local line “Sanriku Railway” has suffered severe damage from the Great East Japan Earthquake, but has recovered from Apr. 2014. Listen to the staffs’ explanation of drift methods such as “Norimen”, the base of the railroad in Okiraitomari Area of Sanriku-cho, Ofunato, Iwate while riding the train of Sanriku Railway.

In order to help preventing disasters throughout the world, Iwate has collected its records of effort and lessons learned from the Great East Japan Earthquake, and will pass these informations (electronic medium) to all who attends the study tour.





# Excursions

**Recovery of the Rias Coastline and Matsushima Bay’s Miraculous Survival from the Tsunami: From the Tsunami Disaster to Recovery – Developing a Disaster-Resistant Community**

- Departure:** Thursday 19 March  
7:50 assembly at Hotel Metropolitan Sendai lobby
- Return:** Friday 20 March  
16:30 at JR Sendai Station
- Capacity:** 30 persons
- Accommodation:** Kesenuma Plaza Hotel SU Single use room
- Meal:** [19 Mar] Lunch & Dinner [20 Mar] Breakfast & Lunch (all included)

(for one person)	E02
Price	¥23,000
Supporting Fee*	¥23,000

\* Miyagi Prefecture will support your participation. Supporting fee will be refunded for those who actually participate the tour, after the conference.

**Shiogama City – A taste of Matsushima Bay’s history and local food culture**

**(Visits to Shiogama Shrine, Urakasumi Sake Brewery Saura Co., Ltd., sushi restaurant)**

Shiogama Shrine has served as the Tohoku Region’s spiritual protector and has been the highest ranking shrine in this region since ancient times. The presence of this shrine has contributed to the prosperity of Shiogama City as a shrine town. Japan’s leading port for catch landing of fresh tuna is located here, and this area has been developing since the olden days a food culture distinctive to port towns.



This excursion will begin with a visit to the Shiogama Shrine where a prayer will be offered for the happiness of the participants and a Kagura dance will be performed by shrine maidens. Afterwards, a tour and sake tasting will take place at one of Miyagi’s famous sake breweries, Saura Company. During the tour, an explanation will be made on the situation at the time of the disaster and the road to recovery. Sushi will be served for lunch, which is a special and authentic dish to port towns. After lunch, participants will travel to Matsushima Town by boat, enjoying a cruise ride in the Matsushima Bay – a member of the World’s Most Beautiful Bays Club.

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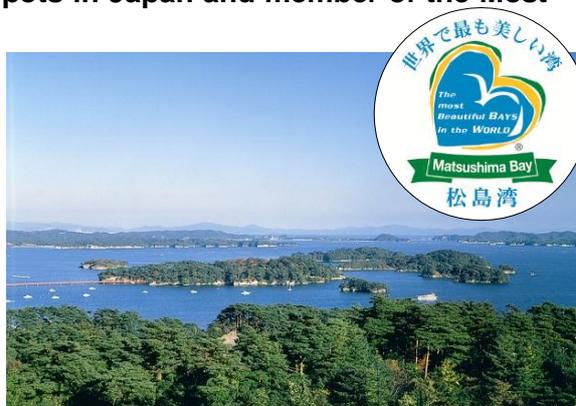
### **Matsushima – One of three most scenic spots in Japan and member of the Most Beautiful Bays in the World Club**

The exquisite scenery of Matsushima – one of three most scenic spots in Japan – includes the 260 islands afloat in the bay and the breathtaking view in all four seasons.

In March 2011 when the Great East Japan Earthquake occurred, the coastal area of Matsushima Town escaped from the tsunami's massive destruction and suffered minimal

damage because of the inner bay geography and the many islands in the bay that served as a buffer against the tsunami. For that reason, the bay became known as the “miracle bay.” In Matsushima, there are also historical buildings, including Zuiganji Temple and Kanrantei, which were reconstructed by the Sendai clan leader Date Masamune, and examples of the stylish architecture of the Momoyama period. The sense of the Date culture can be felt in this area.

This excursion will include an experience with Japanese traditional tea ceremony at Kanrantei tea house and painting Kokeshi wooden dolls. Participants will tour Date Masamune's family temple, Zuiganji. Finally, from the Saigyo Modoshi No Matsu Park, participants can take in the breathtaking view of Matsushima Bay. This bay is not only exquisite but also showed its strength against the disaster.



### **Kesennuma – Recovering from the tsunami disaster and bringing vitalization back to this fishing port town**

This port town takes pride in being located off the Sankriku Coast – one of three top fishing grounds in the world, and for being number one in shark fin production and land hauling of fresh bonito in Japan. The Rias Coastline is designated as a national park for its exquisite scenery. As a result of the Great East Japan Earthquake, the central city area was devastated by the tsunami. However, with the support received throughout Japan and across the world, all efforts are put into the recovery of this city.

This excursion will include a visit to the fish market where participants can feel a sense



[Continued on the following page]

of the vitality that has returned. This fish market has also become a symbol of the city's strength and energy. Participants will also visit the “Umi-no-Ichi” local product and tourism facility located next to the fish market and the “Shark Museum,” the only shark museum in Japan. At the Rias Ark Museum of Art, participants will learn about the situation at the time of the disaster, the danger of the tsunami and to hear the voices of the people who lived through the disaster through the exhibitions on display.

### **Minamisanriku – a town recovering from the tsunami and relaying its experience to the international community**

In common with Kesenuma, Minamisanriku is also located off the Sanriku Coast – one of three top fishing grounds in the world. This area is famous for its various sea products, including abalone, silver salmon and octopus, and the seafood rice bowls made from seasonal sea products are a popular dish. There are many hands-on activities offered, through which one can experience lifestyles of mountain and ocean villages. As a result of the Great East Japan Earthquake, the entire town was devastated by the tsunami. However, with the support received throughout Japan and across the world, all efforts are put into the recovery of this town.

This excursion includes an experience of various programs offered in Minamisanriku, which serve as educational tools to learn about the disaster experience and disaster prevention. Through these educational tools, the experiences of the town are being relayed to the international community. Participants will also learn about the dangers of the tsunami and gain an understanding of disaster prevention and reduction in community development. The excursion will also include lunch at the temporary recovery shopping area, where participants can witness the vitality that has returned to the area and enjoy the sea and land products offered here.



E  
03

## Exploring the World Heritage Site and One of the Most Beautiful Bays in the World: Golden Route of Tohoku – Matsushima and Hiraizumi

- Departure:** Thursday 19 March  
7:50 assembly at Hotel Metropolitan Sendai lobby
- Return:** Thursday 19 March  
17:45 at JR Sendai Station
- Capacity:** 30 persons
- Accommodation:** None
- Meal:** Lunch (included)

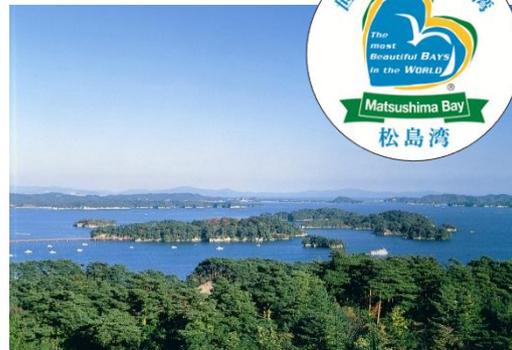
(for one person)	E03
Price	¥9,000
Supporting Fee*	¥9,000

\* Miyagi and Iwate Prefecture will support your participation. Supporting fee will be refunded for those who actually participate the tour, after the conference.

### Matsushima Bay – One of three most scenic spots in Japan and member of the Most Beautiful Bays in the World Club

The exquisite scenery of Matsushima – one of Japan’s three most scenic spots – includes the 260 islands afloat in the bay and the breathtaking view in all four seasons.

In March 2011 when the Great East Japan Earthquake occurred, the coastal area of Matsushima Town escaped from the tsunami’s massive destruction because of the inner bay



geography and the many islands in the bay that served as a buffer against the tsunami. For that reason, the bay became known as the “miracle bay.” This “miracle bay” became the first bay in Japan to become a member of the UNESCO-supported NGO, the Most Beautiful Bays in the World Club in December 2013, and has received recognition by the international community. In Matsushima, there are also historical buildings, including Zuiganji Temple, Godaido and Kanrantei, which were reconstructed by the Sendai clan leader Date Masamune, and examples of the stylish architecture of the Momoyama period. A taste of the Date culture can be experienced here, with roots to Sendai and Miyagi.

[Continued on the following page]

This excursion will include an experience of Japanese traditional tea ceremony at Kanrantei tea house, while enjoying the view of Matsushima Bay. Following this activity, participants will enjoy sightseeing in the Matsushima area and tour Matsushima's symbolic buildings including Godaido and Zuiganji – the leading Zen temple of the region and the family temple of Date Masamune. At the end of the excursion, participants will take a ride on a cruise and come up close to one of the world's most beautiful bays, while enjoying dishes made from oysters, one of Matsushima's famous products.



### World Heritage Hiraizumi

In June 2011, "Hiraizumi-Temples, Gardens and Archaeological Sites Representing the Buddhist Pure Land (Jodo)" was designated as a world heritage site. The value of Hiraizumi as a centre of Pure Land Buddhism was recognized by the world and became Japan's 16th cultural heritage site, the first in the Hokkaido/Tohoku area.

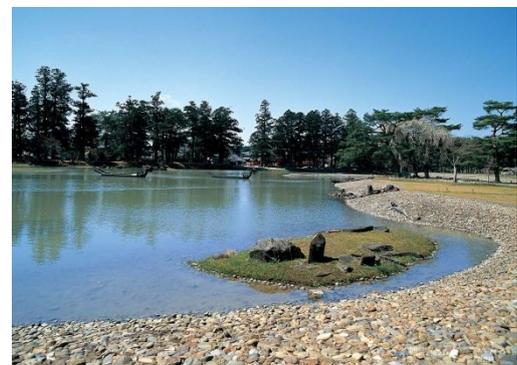
#### 1. Chuson-ji ( Hiraizumi Town )

The temple, symbolizing the so-called 'gold culture' of the Oshu Hiraizumi culture constructed by the first generation Kiyohira, boasts over 1,000 years of history. Beginning with the radiant gold-coloured Konjikido (the Golden Hall), there are about 3,000 pieces – a bonanza of Heian period art – preserved as either national treasures or important cultural assets.



#### 2. Motsu-ji ( Hiraizumi Town )

A restoration of garden representing the Jodo (heavenly) world inside a temple built by the second generation Motohira. In the center of the garden is Oizumi ga Ike Pond, about 10,000 m<sup>2</sup> in size. This is the only Heian-period structural site in Japan with a remaining yarimizu aqueduct.



E  
04

## Viewing the Natural Beauty of the Ice Monsters and Experiencing the Traditional Culture of Snow Country

### Let's Experience Yamagata Prefecture's Nature and Culture

- Departure:** Wednesday 18 March  
16:00 assembly at Sendai International Center (Bus Terminal)
- Return:** Thursday 19 March  
E04-Y 11:15 at JR Yamagata Station  
E04-S 18:00 at Yamagata Airport, 19:30 at JR Sendai Station
- Capacity:** 38 persons  
(Minimum Number of Participants: 2)
- Accommodation:** Hotel Lucent Takamiya SU Single use / TB Twin use room
- Meal:** [18 Mar] Dinner [19 Mar] Breakfast & Lunch (all included)

(for one person)	E04-S-SU	E04-Y-SU	E04-S-TB	E04-Y-TB
Price	¥28,000	¥25,000	¥21,000	¥19,000
Supporting Fee*	¥6,000	¥6,000	¥6,000	¥6,000

\* Yamagata Prefecture will support your participation. Supporting fee will be refunded for those who actually participate the tour, after the conference.

### Zao Hot Springs

This hot springs resort is one of the oldest in all of Japan, having been open for 110 years. The sulfurous quality of the hot springs is very beneficial for the skin and is very famous for being the “Bath of Beauty” because of the flawlessly smooth complexion it gives. After watching the snow while sitting in a warm hot springs bath, you could visit the local souvenir shops, stroll around the hot springs town and eat the local specialities.

The Zao Hot Springs Ski Resort is a world class winter sports resort with 12 courses and 14 Gelaende, with the longest slope stretching for 10 km. As well as skiing, the resort is ideal for all kinds of snow-based activities including snowboarding, sleighing and enjoying the snow monsters.



[Continued on the following page]



### Yamagata Maiko

Thanks to the Mogami River which runs throughout the Prefecture, trade flourished between Yamagata and places like Kyoto and Osaka, bringing the culture of that area with it. The Yamagata Maiko (Apprentice Geisha) are an example of such culture and a traditional art form with a long history. The Maiko wear their distinctive make-up and bright traditional robes, and perform dances accompanied by a shamisen (traditional stringed instrument). After watching the Maiko dance, visitors can talk with the Maiko and take photographs with them.

### Zao Ice Monsters

Due to the particular weather conditions and vegetation required to form the shape of the snow-laden trees or “Ice Monsters”, it is a considerably rare natural phenomenon. The Zao Ice Monsters are made up of snow and ice, grow several metres tall and are truly shaped like monsters. At night, the Ice Monsters are illuminated, creating a wondrous scenery and during the day, the beautiful contrast between the bright blue of the sky and the white of the snow is also an incredible sight. You can see the Ice Monsters easily by using the ropeway. Please take the time to see this amazing natural work of art formed of beautiful ice and snow.

[Continued on the following page]





### Mogami River Cruise

You can take a lunch cruise (around 1 hour) down the clear waters of the Mogami River while enjoying the gorgeous snowy scenery. The boat is equipped with a Japanese heated table device called a “kotatsu”, so it is pleasantly warm on the boat. In addition, the boatman will sing a traditional Mogami River song in the original Japanese but also in a range of different languages including English and Chinese. There is also the filming location of `Oshin`, a famous Japanese TV drama that was also made into a film.



### Ginzan Hot Springs

The resort town, built on the quietly flowing Ginzan River, features many 3-storey traditional Japanese Inns built over 100 years ago. The evening view of the shining stone pavement bathed in evening mist and the light of the gas lanterns as well as the incredible snowy scenery in winter have made this hot springs resort particularly popular recently. Visitors are able to change into period Japanese clothing from 100 years ago, take pictures and walk around the town.

This is also one of the filming locations of `Oshin`, a famous Japanese TV drama that was also made into a film.





**Revitalizing Fukushima:  
Overcoming from Disaster with the Concept of Building Back Better**

- Departure:** Thursday 19 March  
7:50 assembly at Hotel Metropolitan Sendai lobby
- Return:** Friday 20 March  
17:30 at JR Shin-Shirakawa Station
- Capacity:** 30 persons
- Accommodation:** Yoshikawaya SU Single use / TB Twin use room
- Meal:** [19 Mar] Lunch & Dinner [20 Mar] Breakfast & Lunch (all included)

(for one person)	E05-SU	E05-TB
Price	¥33,000	¥28,000
Supporting Fee*	¥33,000	¥28,000

\* Fukushima Prefecture will support your participation. Supporting fee will be refunded for those who actually participate the tour, after the conference.

**Shinchi Town, tsunami affected town**

Shinchi-town, located in the north east area of Fukushima Prefecture, was hit by the tsunami and one-fifth of town was inundated. One can see the tsunami affected area from the top floor of town hall. Staff of Shinchi-town will explain the damage of the Great East Japan Earthquake and the reconstruction plan. This visit will provide further understanding of building back better.



**Strawberry farm**

Through listening to an explanation about how the Strawberry farm hit by Tsunami was reopened, you will understand how citizens of Fukushima Prefecture contribute to the reconstruction. After the short presentation, you will enjoy fresh strawberry picking in the fruit kingdom Fukushima.

[Continued on the following page]

**Stock Warehouse for disaster prevention**

The Stock Warehouse for disaster prevention in Soma-city is equipped with blankets, water and food for emergency. Visiting this warehouse will provide understanding on the management and operation system as well as disaster response. A few local fire fighters, who were involved in rescue operations during the Great East Japan Earthquake, will talk about their activities during the disaster, which will give further understanding about rescue operations during a large scale disaster and risk management.



**Fukushima Agricultural Technology Centre**

Fukushima Agricultural Technology Centre conducts radioactive materials monitoring for the entire Fukushima Prefecture and plays the most important role in this context. Staff will explain the measurements of monitoring and you will get to see the actual monitoring procedures. Though this visit, you will find out how Fukushima considers and conducts food safety after suffering from nuclear power station accident.

**Fukushima’s traditional craft**

Fukushima has variety of traditional crafts with long histories. Enjoy painting your own craft and experience the tradition of Fukushima.

[Continued on the following page]





### Sake breweries

Fukushima won the most golden awards for sake, and ranked No.1 in Japan for the past 2 years. This tour will visit sake breweries which were totally destroyed by the 311 earthquake and listen to their reconstruction efforts and strong passion towards sake making. You will enjoy tasting sake.

[Continued on the following page]

### Mahoron, the Fukushima Prefectural centre of cultural properties

The disaster caused huge damage to cultural properties, and the coastal area in Fukushima Prefecture, such as Futaba-town, Okuma-town and Tomioka-town was heavily harmed by the Great East Japan Earthquake. Mahoron, the Fukushima Prefectural centre of cultural properties, contributes to restore cultural properties salvaged from such disaster affected area. Through the visit, the importance of rescuing cultural properties from disasters will be explained.



E  
06

## Revitalizing Fukushima: Integration of Creation and Tradition for Fukushima

- Departure:** Thursday 19 March  
8:30 assembly at Hotel Metropolitan Sendai lobby
- Return:** Friday 20 March  
17:00 at JR Kōriyama Station
- Capacity:** 30 persons
- Accommodation:** Higashiyama Grand Hotel **SU** Single use / **TB** Twin use room
- Meal:** [19 Mar] Lunch & Dinner [20 Mar] Breakfast & Lunch (all included)

(for one person)	E06-SU	E06-TB
Price	¥23,000	¥20,000
Supporting Fee*	¥23,000	¥20,000

\* Fukushima Prefecture will support your participation. Supporting fee will be refunded for those who actually participate the tour, after the conference.

### Decontamination Information Plaza

Although Fukushima suffered from radioactive materials spread by the accident at the nuclear power station, various measurements for decontamination have been taken and the level of contamination has steadily decreased. Visit the Decontamination Information Plaza and learn about decontamination measurements and its efforts.



### Power of Mothers

Mothers, who evacuated from their hometowns due to the accident at the nuclear power station, contribute to the reconstruction though making traditional food. Listen about their activities and taste their carefully selected local ingredients, which will make you feel Fukushima's dynamic for reconstruction.

[Continued on the following page]

**Fukushima Agricultural Technology Centre**

Fukushima Agricultural Technology Centre conducts radioactive materials monitoring for the entire Fukushima Prefecture and plays the most important role in this context. Staff will explain the measurements of monitoring and you will get to see the actual monitoring procedures. Though this visit, you will find out how Fukushima considers and conducts food safety after suffering from nuclear power station accident.



**Fukushima Renewable Energy Institute, National Institute of Advanced Industrial Science and Technology**

Fukushima Prefecture is aiming to become a pioneer of renewable energy and is making great efforts on fostering its renewable energy industry to push forward the reconstruction. At Japan’s top research institute, you will deepen your understanding of cutting age research of renewable energy.

**Public Housing for Afflicted People by the Great East Japan Earthquake**

Fukushima Prefecture has constructed public housing for people affected by the Great East Japan Earthquake and who evacuated from their hometowns due to the accident at nuclear power station, and is providing support to help rebuild their lives. Through visiting and hearing the briefing on the outline of public housing, their functionality and dwelling environment, you will experience a true component of ‘building back better’.



[Continued on the following page]

### Revitalization and Traditional Craft

Evacuees started new projects collaborating with local traditional materials at the place where they evacuated to. Through listening about their activities, you will find out how people of Fukushima contribute to the reconstruction.

### Tsuruga-jo Castle

Tsuruga-jo Castle is one of many fine castles in Japan and a symbol of Aizu area of Fukushima Prefecture. Through visiting the castle, you will experience the history and tradition of the Aizu area and feel beautiful charms of Fukushima.



### Sake breweries

Fukushima won the most golden awards of sake, and ranked No.1 in Japan for the past 2 years. Understand sake making as well as learn much about sake's magnetism.

During the visit, radioactive materials monitoring during sake making will also be explained.

## Where to Ride?

No re-confirmation is required. Please come to the tour meeting point directly. Please note there are two different meeting points, depending on your tour ID.

### 1. Sendai International Center (Venue)

All Study Tours except for

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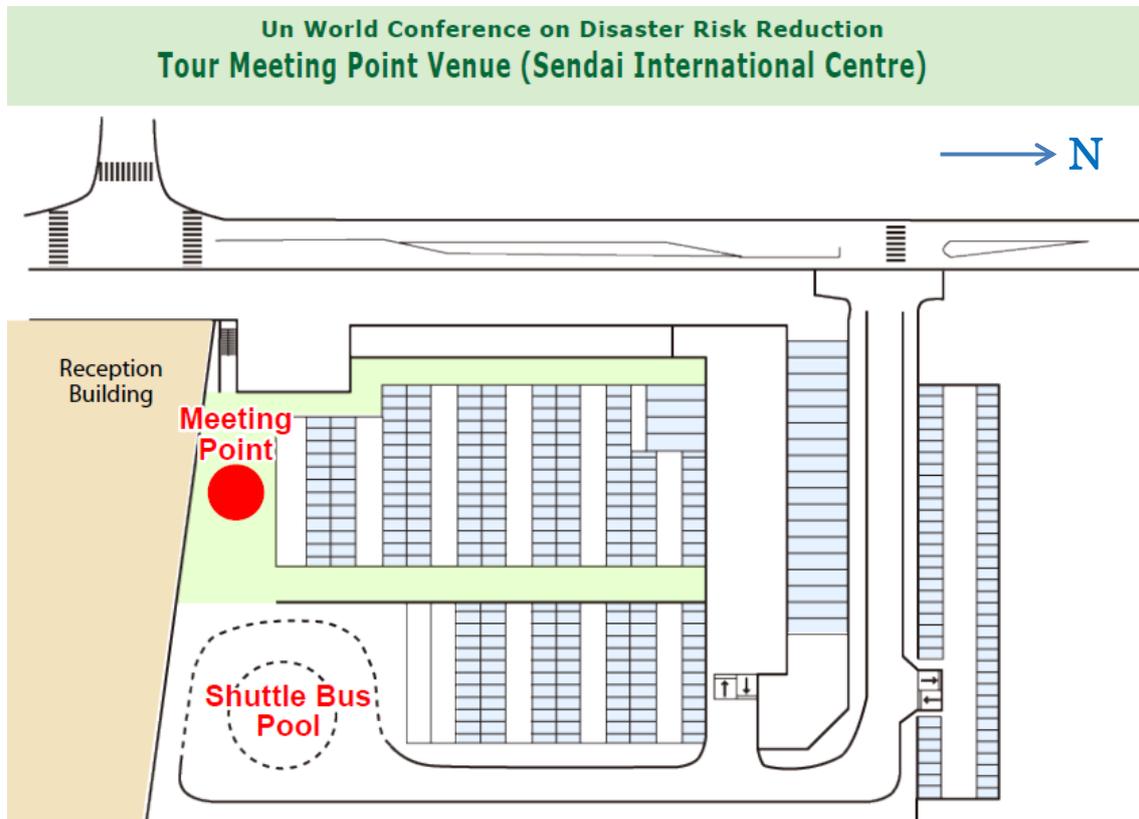
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In front of the Reception Building (Sendai International Center Station) in the Main Conference Venue. It locates near the shuttle bus pool. JTB staff will pick up you.

Google Map:

<https://www.google.co.jp/maps/place/38%C2%B015'37.3%22N+140%C2%B051'24.1%22E/@38.260358,140.856691,296m/data=!3m2!1e3!4b1!4m2!3m1!1s0x0:0x0>



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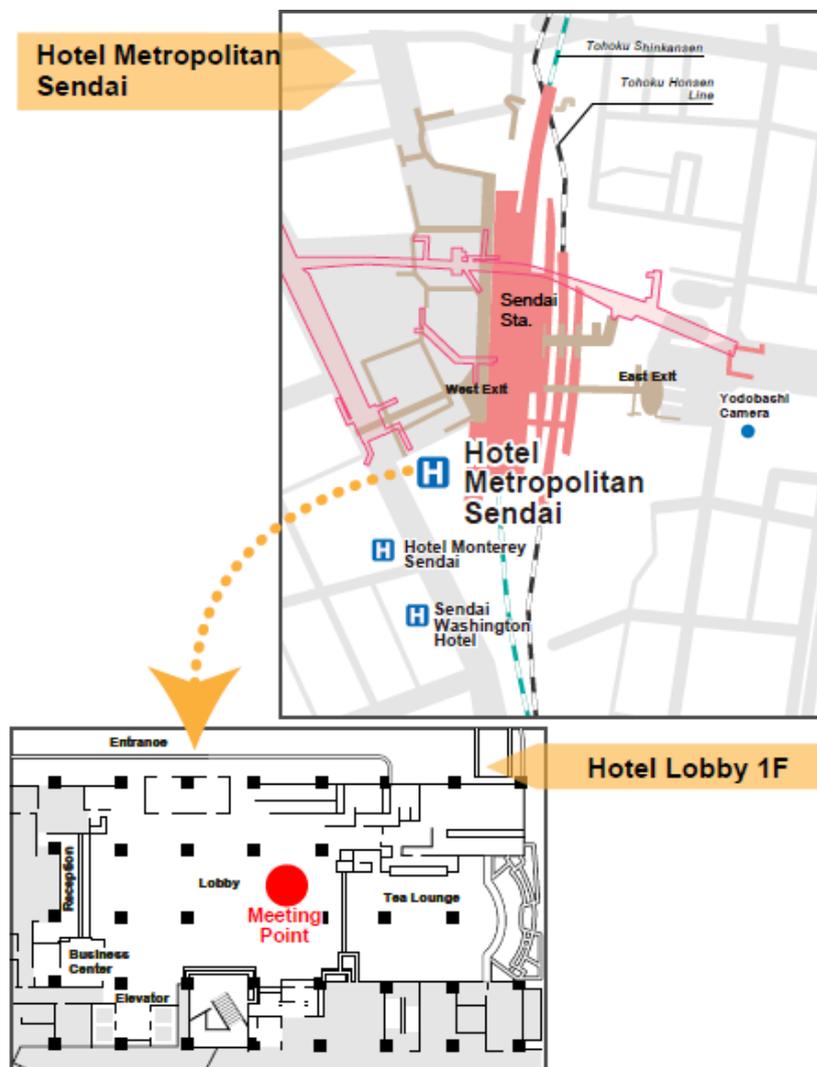
## 2. Hotel Metropolitan Sendai Lobby



The Lobby 1F in Hotel Metropolitan Sendai. It locates near JR Sendai Station. JTB staff will be waiting for you.

Google Map:

<https://www.google.co.jp/maps/place/38%C2%B015'32.4%22N+140%C2%B052'52.2%22E/@38.259002,140.881179,17z/data=!3m1!4b1!4m2!3m1!1s0x0:0x0>





## Reservations & Latest Information :

[www.bosai-sendai.jp/en/study tours.html](http://www.bosai-sendai.jp/en/study tours.html)

## Contact :

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Mail [2015sendai\\_tour@gmt.jtb.jp](mailto:2015sendai_tour@gmt.jtb.jp)

Fax +81-3-5495-0685

Language English / Japanese