

Steps for Revitalization in Fukushima

< November 20 , 2017 >





The Great East Japan Earthquake occurred on **March 11, 2011** at 14:46. Centered off the Sanriku coast in North Eastern Japan, its magnitude was a record high of M9.0, measuring a 7 on the JMA seismic intensity scale. Heavy shaking resulted in a large tsunami that struck a wide area along the coast.

Disaster status after the earthquake and tsunami

<Disaster status in Fukushima Prefecture> As of 2017.10.30

◆ **Deaths : 4,013**

(This number includes 2,184 disaster-related deaths(※))

◆ **Missing: 2**

(※)Disaster-related deaths are not caused directly by the disaster, but occur afterwards due to indirect causes including stress and decline in health from living as evacuees.

<Cost of damage in Fukushima Prefecture> As of 2012.3.23

◆ Reported cost of damage for **public works facilities**:

About JPY 316.2 billion

◆ Reported amount of damage on **agricultural, forestry and fishery facilities**: **About JPY 245.3 billion**

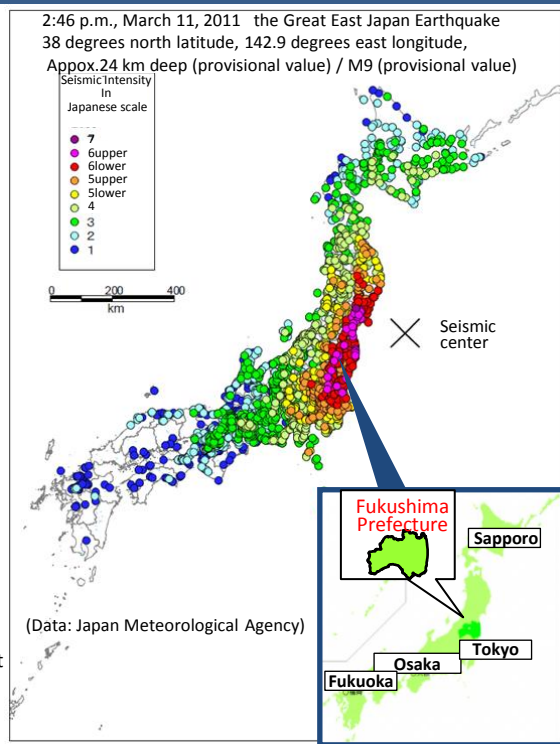
◆ Reported amount of damage on **educational facilities**: **About JPY 37.9 billion**

◆ **Total of reported amount of damage on public facilities**: **About JPY 599.4 billion**

※Areas under the jurisdiction of the prefectural government: for the 30km radius surrounding the Fukushima Daiichi Nuclear Power Station (F1NPS), damage costs were estimated based on aerial photographs.

※Areas under the jurisdiction of municipalities: Excludes approximate cost of damage for a part of Minamisoma City and 8 municipalities located in the Futaba area.

[Data] Land Rehabilitation & Development Group, Fukushima Restoration & Revitalization Headquarters for Great East Japan Earthquake



Iwaki City



A drainage facility
in Soma City



Shirakawa-Toba line



Iwase Agriculture High School
in Kagamiishi Town

Status of housing damage by region

<Damage status> As of 2017.10.30

◆ **Totally destroyed: 15,224 houses**

◆ **Half destroyed: 80,802 houses**



Inland area was severely
damaged

Totally destroyed
24 houses

Half destroyed
162 houses

Aizu Region

Totally destroyed
5,184 houses

Half destroyed
36,596 houses

Central Region

Totally destroyed
10,016 houses

Half destroyed
44,044 houses

Coastal Region



Extensive damage
caused by Tsunami



Status of housing damage
(Ukedo district, Namie Town)

The number of evacuees peaked in May 2012 at 164,865 and has since decreased, but as of October 2017 roughly 55 thousand people are still under evacuation.

The areas under evacuation orders have changed such as with the lifting of the restricted residence zone and the evacuation order cancellation preparation zone in the towns of Kawamata, Iitate, Namie, and Tomioka in March 2017 and April 2017.

Areas to which evacuation orders have been issued in the wake of nuclear power station (NPS) accident

[2011.3.11]

- ◆ Evacuation order was issued for 3 km radius zone from the Daiichi NPS.
- ◆ On the same day, indoor evacuation was issued for 10 km radius zone.

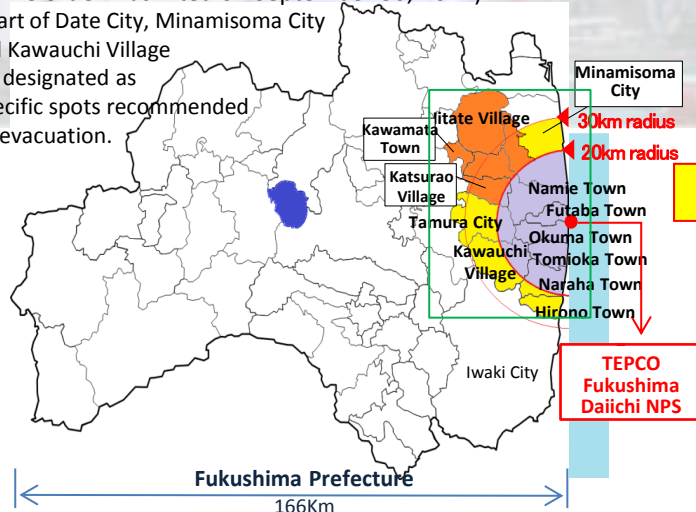
[2011.3.12]

- ◆ Evacuation order was issued for 10 km radius zone from the NPS.
- ◆ On the same day evacuation order was issued for 20 km radius zone.
- ◆ Evacuation order was issued for 3 km radius zone from the Daini NPS.
- ◆ Evacuation order was issued for 10 km radius zone on the same day.

[2011.4.22]

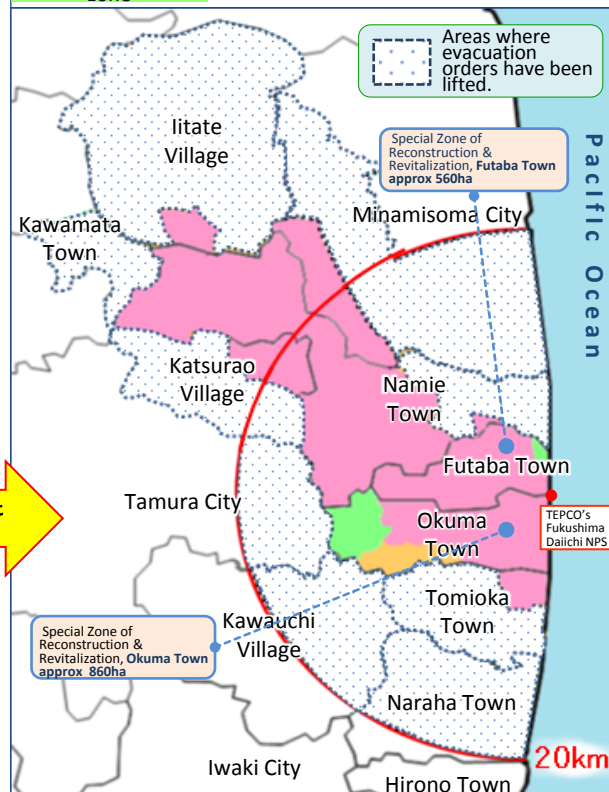
- Evacuation-designated areas (Restricted areas)
- Deliberate evacuation areas
- Emergency evacuation preparation areas (The order was lifted on September 30, 2011)

※Part of Date City, Minamisoma City and Kawauchi Village are designated as specific spots recommended for evacuation.



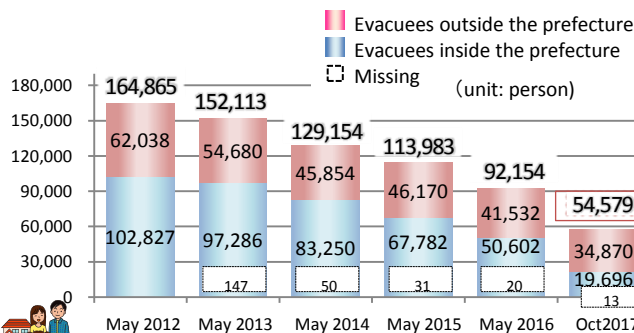
Current status

Difficult-to-return zone	<ul style="list-style-type: none"> • Annual integrated doses are over 50mSv. • Entry is prohibited with some exceptions. • Lodging is prohibited.
Restricted residence zone	<ul style="list-style-type: none"> • Annual integrated doses are between 20 and 50mSv. • Entry is permitted, and business operation is partially permitted. • Lodging is prohibited with some exceptions.
Evacuation order cancellation preparation zone	<ul style="list-style-type: none"> • Annual integrated doses are below 20mSv. • Entry is permitted, and business operation is permitted. • Lodging is prohibited with some exceptions.



Evacuation Designated Zones are about 2.7% of the whole Fukushima Prefecture area.

- ◆ Nearly 55 thousand people from Fukushima continue to live as evacuees (Earthquake, Tsunami, NPS accident)

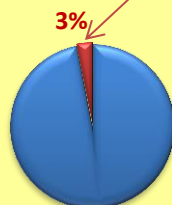


Reference

Numbers of evacuees are about 3% of the prefecture's entire population:

1,881,382 people

(As of Oct, 2017)

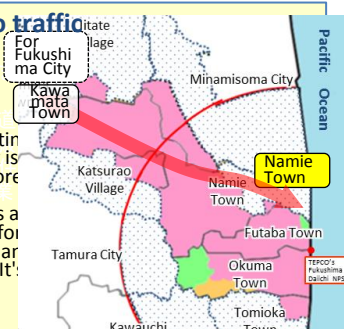


Plans for the Reconstruction and Revitalization of the Special Zones in Futaba and Okuma Town

Following the revision of the Act for Special Measures for the Reconstruction and Revitalization of Fukushima (May, 2017), the national government was able to designate Special Zones for Reconstruction and Revitalization. The goal is to lift the evacuation orders and allow residents to return to the Difficult-to-return area's over time (Difficult-to-return areas are areas where residency is restricted over the coming years). In accordance with this, plans have been formulated by **Futaba Town** and **Okuma Town** which were recognized on September 15, 2017 and November 10, 2017 respectively by the national government. The revised act will concentrate on carrying out decontamination and infrastructure development of the designated zones in order to create an environment which people can return to.

Route 114 opened up to traffic

On September 20, the previously closed Route 114 was re-opened to vehicle traffic. Route 114 runs for approximately 27km between Tsumishima and Murohara in Namie Town. As this is a main road connecting Fukushima City with Namie Town, it is expected that it will make things more convenient for residents in Namie Town and adjacent municipalities as a evacuation route as well as a route for transportation of emergency goods and personnel in the event of a disaster. Its re-opening is expected to further accelerate restoration and reconstruction projects.





In order to provide stable housing for disaster-affected citizens, including evacuees, Fukushima is in the process of installing disaster public housing. The Prefectural Government is responsible for 'revitalization public housing' targeted towards nuclear evacuees and is currently planning to build a total of 4,890 units.

Reconstruction of housing environment

◆Housing environment of disaster-affected citizens

(As of 2017.10.31)

Temporary housing units built	14,482 units (3,338 units have tenants)
Temporary housing units built	6,065 units in the prefecture
Housings reconstructed	23,148 cases (vs 33,753 application, 68.6% progress)

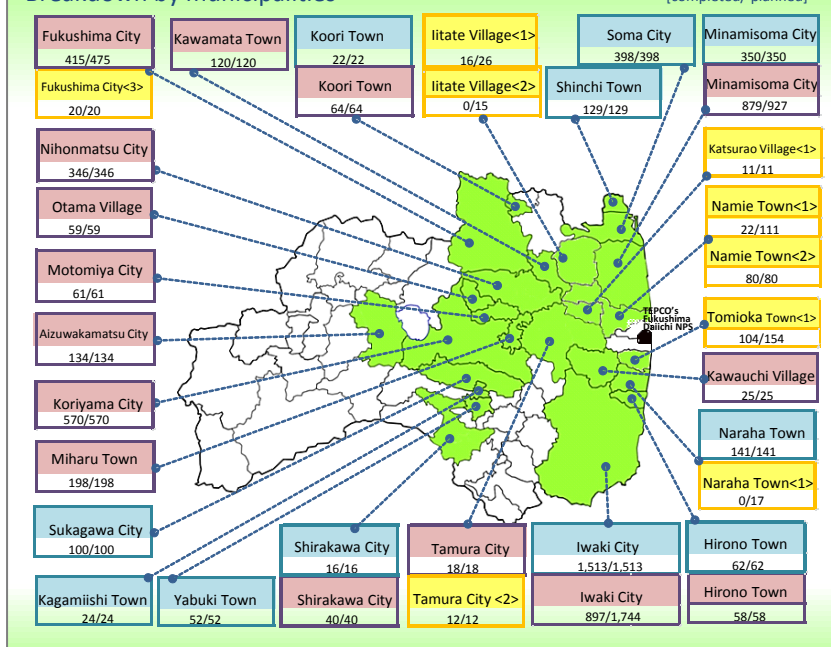
◆Developmental situation of disaster public housing

(As of 2017.10.31)

Classification	Units Planned	Applicable	Completed
For earthquake and tsunami affected people	2,807	For earthquake and tsunami affected citizens	2,807 (100%)
For nuclear disaster evacuees (Revitalization Public Housing)	4,890	For evacuees from evacuation areas	3,884 (79%)
<1> For returnees	319	For evacuees from evacuation areas	153 (48%)
<2> For returnees or For people moving in	107	•For evacuees from evacuation areas •Voluntary evacuee •New comers	92 (86%)
<3> For household raising children	20	Household raising children aged 18 or under (voluntary evacuees)	20 (100%)

Breakdown by municipalities

[completed/ planned]



Temporary housing units for evacuees

Evacuees from evacuation areas are available until March 31 2019.

- ◆The whole area: Tomioka Town, Okuma Town, Futaba Town, Namie Town, Katsurao Village and litate Village
- ◆Part of the area: Minami Soma City (Odaka district, etc.), Kawamata Town (Yamakiya district) and Kawauchi Village (Shimokawauchi Kainosaka and Hagi district).

Provisions made for evacuees from areas not including the evacuation-ordered areas finished on March 31, 2017. For households in need of continued evacuation, the prefectural government started to accept applications for financial assistance for renting private apartments from October 3, 2016. This is part of efforts to aid evacuees' efforts in rebuilding their livelihoods. Registration for the subsidization is being conducted at the Business Center for Subsidy of Rent.

Elementary and Junior High Schools resumed for the first time in 6 years. (Odaka district, Minami-Soma City)

Due to the aftermath of the nuclear power accident, Odaka district, Minami-Soma City and Naraha Town were forced to run elementary and junior high schools in Kashima district and Iwaki City respectively. This year, they returned to their towns and resumed school operations for the first time in six years. Five Municipalities (Kawamata Town, Yamakiya district, Tomioka Town, Namie Town, Katsurao Village and litate Village) are aiming to resume school operations in their hometowns. The prefectural government, municipalities and national government will continue to work together to form attractive schools.



Opening of commercial facilities to support the reconstruction of Kawamata Town and litate Village.

Commercial facilities which will support the reconstruction were opened in Yamakiya district, Kawamata Town and litate Village. These facilities aim to support the livelihoods of returnees, with retailers providing daily commodities, food, and places to eat. 'Tonya no Sato' or 'Home of Wholesalers' has an area devoted to providing information on the reconstruction efforts as well as a multi-purpose square. Madei Hall is a place where residents can meet and relax. Flowers are grown, displayed and sold in the building adding to the relaxed vibrant atmosphere.



Police activities to protect the safety of affected people

After the disaster, support was received from police officers all around the country. Police have continued efforts to protect evacuees and ensure their safety, including patrols of the disaster affected areas, temporary housing, and recovery public housing. Route 114 which runs through the Difficult-to-Return Area which was re-opened to traffic on September 20, 2017. Accordingly, the security situation is expected to change, requiring higher caution and intensified inspection. In order to be able to respond to the acceleration of the restoration and revitalization, support is being strengthened from the perspective of maintaining security.



Introduced an app to support returnees

Providing useful information for those living in evacuated areas and nearby municipalities. New functions are added in Dec 2016.

- Showing new information of municipalities
- Search information of facilities and events
- Route guidance to destinations



Taking care of evacuees

269 life support counsellors have been assigned to social welfare councils in 23 municipalities throughout the prefecture (as of 2017.9.1)

In addition to taking care of elderly and preventing isolation, they are also actively involved in working to help with relieving residents' health worries.



Support for recovery of evacuees' livelihoods

We established "Livelihoods Recovery Support Centers" in 26 spots around Japan in FY2016 to help evacuees outside the prefecture collect information or get consultation for their return or rebuilding of livelihoods in communities.

Providing them with information for rebuilding of livelihoods through face-to-face interviews, individual phone consultation and exchange sessions.

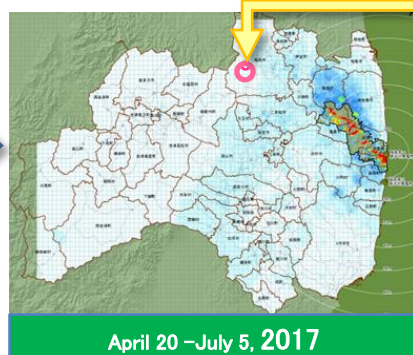
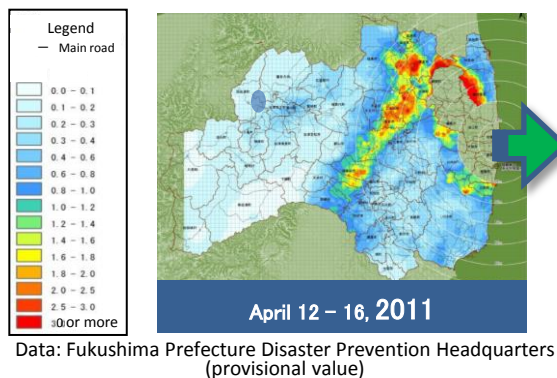




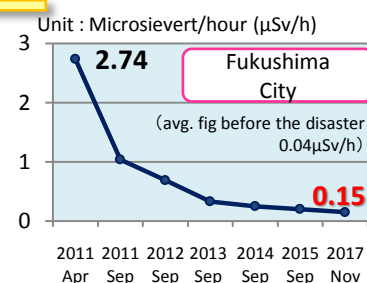
Air radiation levels in the prefecture have significantly decreased compared to April, 2011. Environmental remediation for 11 municipalities implemented by the national government finished by the end of March, 2017, and the majority of environmental remediation for 36 municipalities implemented by municipalities was finished by March.

Transition of air radiation dose in Fukushima Prefecture

◆ Radiation dose level map covering the whole area of the prefecture based on the monitoring mesh survey of environmental radiation by Fukushima Prefecture.



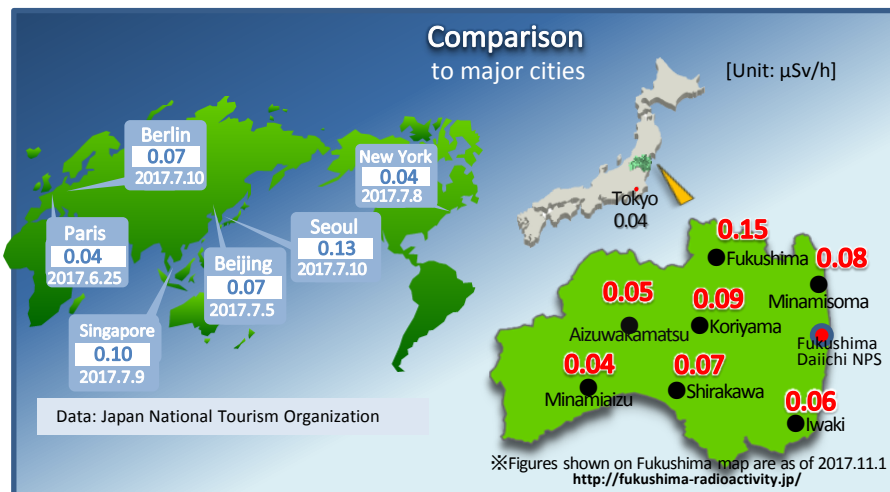
◆ Transition of measurements(1)



◆ Transition of measurements(2)

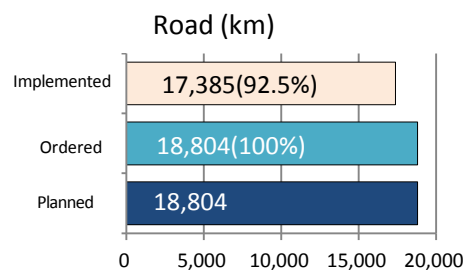
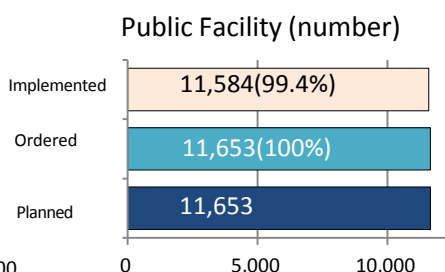
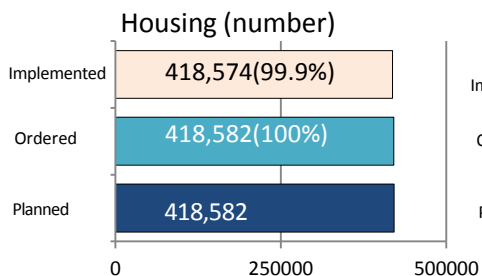
[Unit: μSv/h]

	Fukushima City	Aizuwakamatsu City	Iwaki City
Pre - disaster	0.04	0.04~0.05	0.05~0.06
Apr2011	2.74	0.24	0.66
Sep2011	1.04	0.13	0.18
Sep2012	0.69	0.10	0.10
Sep2013	0.33	0.07	0.09
Sep2014	0.25	0.07	0.08
Nov2017	0.15	0.05	0.06



Decontamination Progress in < Intensive Contamination Survey Area >

(As of 2017.9.30)

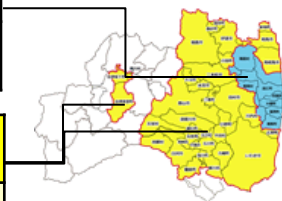


<Special Decontamination Area>

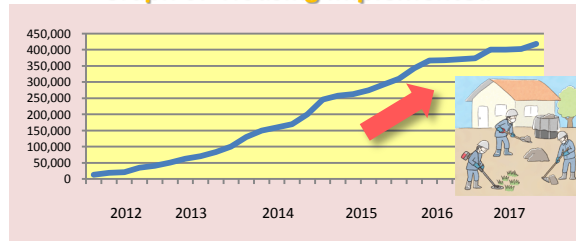
The national government plans and conducts decontamination in 11 municipalities.

<Intensive Contamination Survey Area>

Each municipality plans and does decontamination work. The prefecture's 36 municipalities are designated.



<Graph of Housing implemented>



◆Disaster waste disposal

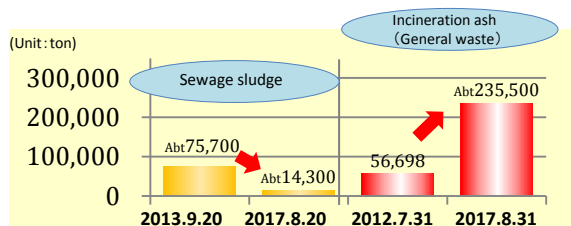
(As of 2017.7.31, Unit:1,000 tons)

Region	Generation estimated	Actual amount	Amount having been dealt with
Coastal	2,944	3,356	2,794 (94.9%)
Central	1,056	1,060	1,056 (100.1%)
Aizu	19	19	19 (100.0%)
Total	4,019	4,435	3,869 (96.3%)



◆Storage situation of contaminated waste

[Ken-chu (Central Region) Purification Center]



Storage condition of incinerated ash at the Ken-chu Purification Center

After the disaster, transportation of sludge was temporarily disrupted and storing volume increased in the facility. As a result of efforts to secure accepting facilities and volume reduction, we came in to complete incineration disposal for the volume reduction. We will continue to work with relevant organizations, such as the national government and municipalities for the securement of the accepting facilities of incinerated ash.

◆Temporary Storage Site

(As of June 30 2017)

Storage condition	Number of Site	Storage volume (m ³)
Temporary storage sites based on the decontamination plan	862	4,143,708
Others	24	939
Storage where it generated, such as house garden, factory site, school ground	141,294	1,890,051
*Total	142,180	6,034,698

* Total of 52 municipalities out of 59 in the prefecture (**7 are excluded)
**7 municipalities : Naraha Town, Tomioka Town, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village where the whole areas are designated as special areas for decontamination



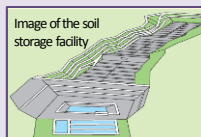
Interim Storage Facility

◆Situation of receiving of removed soil and development of facilities

For the transportation of removed soil into the interim storage facility, about the total of 433,000m³ was transferred from March, 2015 when the transportation started to late September, 2017, and transportation for 20 municipalities out of intended 52 has been completed. In terms of transportation in FY 2017, we are planning to transport 500,000 m³ which is also 3 folds of the previous year from 33 municipalities while prioritizing to carry out removed soil stored in school yards.

In November, 2016, construction was started on facilities to receive and sort and facilities to store contaminated soil from decontamination efforts in Okuma and Futaba Town. Storage of soil at these facilities began on October 28, 2017.

In order to continue to ensure safety and security, the prefectural government continues to confirm the situation of transportation and facility based on the safety agreement concluded between the national government, the prefectural government, Okuma Town and Futaba Town. The results will be released online accordingly.



Fukushima Prefectural Centre for Environmental Creation

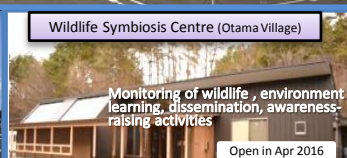
We have to quickly restore environment in Fukushima to create environment where citizens can live with peace of mind over the future. For that, we are conducting detailed environmental monitoring, research and information release as well as taking measures to help children learn about environment and radiation at the Information and Communication building, "Commutan Fukushima."

Fukushima Prefectural Centre for Environmental Creation Main Facilities (Miharu Town)

Open in July 2016



Environmental radiation centre (Minamisoma City)



Wildlife symbiosis centre (Otama Village)



Inawashiro Aquatic Environment Centre (Inawashiro Town)

Environmental monitoring around the NPS

Monitoring of wildlife, environment learning, dissemination, awareness-raising activities

Open in Apr 2016

Fukushima Prefecture currently proceeding projects in cooperation with IAEA*

Projects include the review of decontamination technology used for rivers and lakes, and studying the movement of radioactive materials contained in wild animals.

*IAEA: International Atomic Energy Agency

IAEA proposed project

- Decontamination in Fukushima
- Support for utilization of radiation monitoring data for drawing of easily understandable map ...

Our proposed projects

- Project to review the decontamination technology for rivers, lakes and ponds
- Behavioral survey of radionuclide in wild lives ...

On-site inspection by IAEA experts



IAEA cooperation

many of the IAEA RANET Capacity Building C



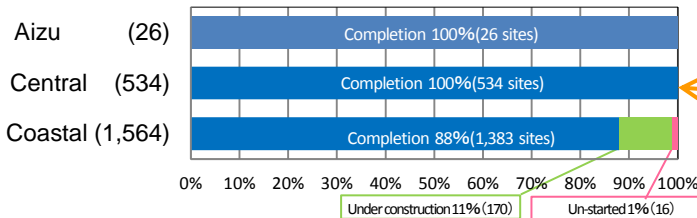


Reconstruction work has begun for 99% of public works facilities, and 91% have already been completed. Currently the prefecture is focused on the tsunami affected area, and is aiming to complete reconstruction as soon as possible, while developing and strengthening roads and other infrastructure, and ensuring that recovery efforts proceed in a safe and secure manner.

◆ Progress by construction site and by region

(As of 2017.10.31)

Construction site of public works facilities for restoration	Number of sites to be assessed intending for restoration work	Number of sites for construction		Number of completion		Prospect for Completion Excluding Difficult-to-return zone
			(%)		(%)	
Total	2,124	2,108	99%	1,938	91%	
River and sand erosion control	272	271	99%	248	91%	FY2019
Coast	157	156	99%	114	73%	FY2019
Road and bridge	798	795	99%	776	97%	FY2018
Port and harbors	331	331	100%	321	97%	FY2017
Fishing port	469	458	98%	383	82%	FY2017
Sewage	3	3	100%	3	100%	Completed
Park and urban facility	5	5	100%	5	100%	Completed
Public housing	89	89	100%	89	100%	Completed



<Progress inside the evacuation zones>

Number of sites to be assessed (sites intended for restoration work)

Number of sites	Number of starts	%	Number of completion	%
340	326	96%	228	67%

[Including Tamura City, Minami-Soma City, Katsurao Village, Kawauchi Village, Naraha Town, Namie Town, Kawamata Town, Iitate Village and Tomioka Town to which evacuation orders were lifted.]

Joban Expressway

<March 1, 2015 Completion>

◆ Iwaki Chuo IC- Hirono IC, aiming expand to 4 lanes by the end of FY2020.

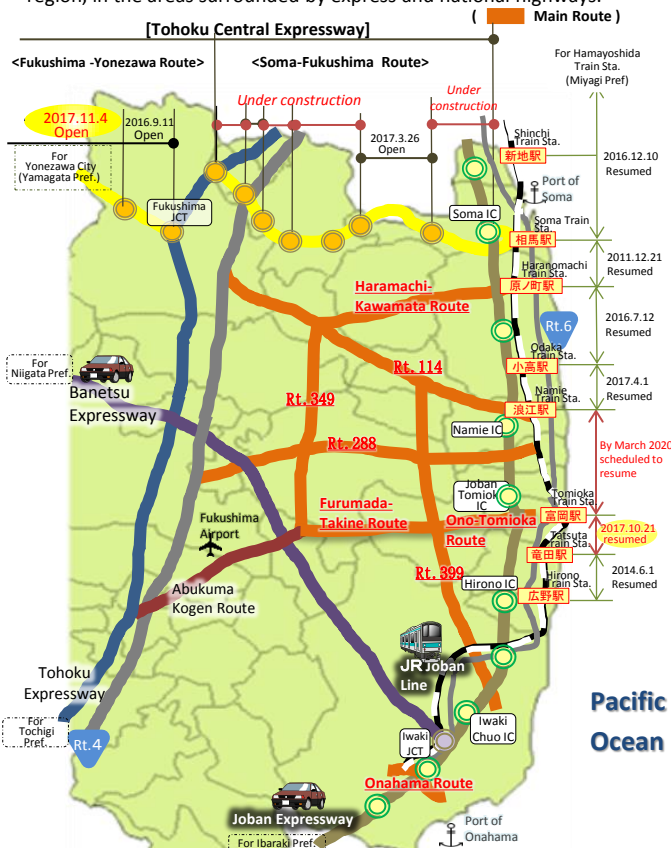
◆ The NEXCO East Japan Co. announced that they are planning to install added lanes at 6 points between Hirono IC and Yamamoto IC to alleviate traffic congestion.



- Naraha Smart IC → FY 2018 to open
- Okuma IC → FY2018 to open
- Naraha IC → FY2019 to open

New roads for restoration are under construction

The prefecture is currently installing a road network in order to provide strong support for seriously damaged zones. The network is aimed to be completed by 2023, and will include 8 main routes covering the coastal region, in the areas surrounded by express and national highways.



JR Joban Line

Operation status as of Nov., 2017

- Namie-Odaka Train Sta. <resumed in April 2017>
- Tatsuta-Tomioka Sta. < resumed in Oct. 2017>
- Tomioka-Namie Sta. <To resume in 1Q of 2020>

Substitute Bus Operation

• Tomioka-Namie Sta. 22 trips/day (Tomioka-Namie-Haranomachi Sta. 1trip)

Operation of wide area bus services in the evacuation area

Operation starts in April, 2017

- 1: Iwaki-Tomioka
- 2: Funehiki(Tamura City)-Katsurao
- 3: Funehiki(Tamura City)-Kawauchi

Operation starts in Oct, 2017

- 4: Kawauchi -Kamimisaka (Iwaki City)
 - 5: Namie-Misaki - Fukushima (via Fukushima Medical Univ.)
- These services have been resumed to help locals who have returned home.

Agricultural and other facilities: situation of restoration and revitalization/damage status

	Farmland	Agricultural management bodies (Resumption status of management)	Fishery management bodies (Resumption status of management)	Restoration construction of farmland and agricultural facilities	
Damage status	* 4,725 ha	17,200 bodies	740 bodies	2,240 districts	
	Area of farmland affected by tsunami following the Great East Japan	Management body affected by the Great East Japan Earthquake	Management body affected by the Great East Japan Earthquake	Districts that restoration needed	
Situation of restoration and revitalization	2,542 ha	10,500 bodies	436 bodies	1,907 districts	1,707 districts
	Area of farmland available for resumption of agricultural management	Management body that resumed agricultural management	Management body that resumed fishing operation (including test fishing)	Restoration work started	Restoration work completed
Progress (%)	53.8%	61.0%	58.9%	85.1%	76.2%
Aggregated date	2017.4	2014.3	2016.12	2017.7	

* Area showing the damage status of farmland excludes evacuation-ordered and diverted areas from affected area.



The prefecture has implemented the 'Fukushima Health Management Survey' in order to protect the physical and mental health of citizens, and maintain and improve health in Fukushima into the future. The survey includes the estimation of citizens' radiation exposure and thyroid examinations.

Fukushima Health Survey

Basic Survey

Self-administered questionnaires: 27.6%
(As of 2017.6.30)
[566,773 respondents/ 2,055,258 subjects]

Citizens residing in the prefecture as of March 11, 2011 (2,055,258 persons)

<Results of estimate on external exposure dose>

【All citizens surveyed】Ratio of dose from 0 to 2mSv accounts for 93.8% of all.

※Estimate of external exposure dose for the 4 months from the nuclear accident (March-July 2011)

Thyroid Ultrasound Examination

Primary Examination (April 2011 to March 2014)

Inspection to confirm the present situation of children who aged 18 or younger at the time of the disaster, about 300,000 were examined by March 2014.

Citizens aged 18 or younger at the time of the disaster (About 380,000 persons)

Full-scale Examination (April 2014 - present)

The second inspection for the comparison with the primary inspection. The subjects will include infants born till April 1, 2012. The inspection will be conducted every 2 years with the subjects to the age of 20, and after 20 it will take place every 5 years.



(Unit: Person, as of 2017.6.30)

Judgement Result	Judgement Contents	Primary Examination		Full-scale Examination (1 st round)		Full-scale Examination (2 nd round)	
		Examinee	Portion (%)	Examinee	Portion (%)	Examinee	Portion (%)
Judgement A	A 1 No cysts/nodules	154,605	99.2	108,710	99.2	43,388	99.4
	A 2 Nodules smaller than 5.0 mm / cysts smaller than 20 mm observed.	143,574		159,578		79,715	
Judgement B	Nodules larger than 5.1 mm / cysts larger than 20.1 mm observed.	2,293	0.8	2,227	0.8	754	0.6
Judgement C	Judging from the conditions of thyroid gland, the examinee is immediately required to take a secondary inspection.	1	0.0	0	0.0	0	0.0

Primary Examination
Conducted: Apr 2011- Mar 2014

Full-scale Examination
Conducted: Apr 2014- Mar 2016

Full-scale Examination
Conducting: Apr 2016- Jun 2017

• Judgments B and C require the secondary examination. (Common in the advanced examination and full-scale examination)
• Though a person's condition is diagnosed as being within the Judgment A2, he/she is determined to be the Judgment B if the condition of thyroid gland seems to be in need of the secondary examination. (Common in the advanced examination and full-scale examination)
• In the secondary examination, 116 examinees were found to be malignant or suspicious malignant. (102 had operation: 1 with benign node, 101 with thyroid gland cancer)

• In the secondary examination (results were confirmed for 1,788 examinees), 71 examinees were found to be malignant or suspicious malignant. (50 had operation: 50 with thyroid gland cancer)

• In the secondary examination (results were confirmed for 367 examinees), 7 examinee was found to be malignant or suspicious malignant. (3 had operation: 3 with thyroid gland cancer)



Internal exposure examinations using whole body counters

Cumulative number of examinees (June 2011 – September 2017) 325,515 examinees

<Results of Examination>

Committed effective dose (internal exposure dose radiated within the body throughout one's lifetime)

Below 1mSv	1mSv	2mSv	3mSv
325,489 examinees	14 examinees	10 examinees	2 examinees

Free medical care for all citizens aged 18 or under



Fukushima has increased the age range for those eligible to received medical subsidies. This is part of an effort to support child-raising in the prefecture through creating an environment focused on child health, where it is easy to give birth to and raise children. As of October 2012, free medical care is provided to citizens aged 18 or younger.

Development of a hub for cutting-edge radiological research and medical care

Fukushima Global Medical Science Center

7 Functions

In order to protect the health of citizens into the future, Fukushima has developed a hub for cutting-edge radiological research and medical care.

- ①Radiation Medical Science Center for the Fukushima Health Management Survey
→ Carrying out of the Fukushima Health Management Survey
- ②Advanced clinical research center
→ Diagnostic imaging by cutting-edge medical device, such as PET/MRI
- ③Advanced medical treatment section
→ Earlier diagnosis and treatment of diseases by using the latest cutting edge medical technology
- ④Education and personnel training section
→ Development of workforce for the various centers, disaster responsive medical services and regional medical services

⑤Medical – Industry Translational Research Center

→ Support for the development of diagnostic and therapeutic medication, and joint research carried out through industry-academic-government cooperation

⑥Thyroid and Endocrinology Center

→ General enquires regarding the treatment of thyroid gland and endocrine system diseases

⑦Health Promotion Center

→ Scientific support for the health promotion project being carried out by the prefectural government and municipalities

December 2016 Grand Open



Fukushima Medical University (Fukushima City)

Reference

Results of survey for findings on thyroid glands over three prefectures other than Fukushima Prefecture

Surveyed in 3 cities in Japan

Hirosaki City, Aomori Pref.
Kofu City, Yamanashi Pref.
Nagasaki City, Nagasaki Pref.

Persons surveyed

Aged 3 to 18: 4,365 examinees

Results of survey

【A1】1,853examinees (42.5%)

【A2】2,468examinees (56.5%)

(A1+A2=99.0%)

【B】44examinees (1.0%)

【C】0examinees (0.0%)

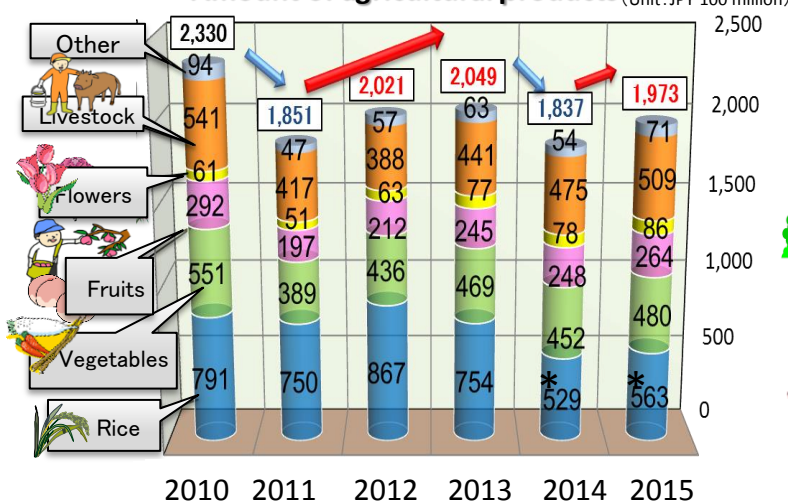
Data: Released to press by the Ministry of the Environment



Production values for the agricultural, forestry, and fishing industries have decreased since March 11, 2011. The prefecture is putting the upmost effort into a variety of activities to revitalize the agricultural, forestry, and fishery industries, which will in turn contribute to helping rebuild the livelihoods of disaster-affected citizens. Activities include PR campaigns introducing qualities of Fukushima products along with the systems in place to ensure food security and safety.

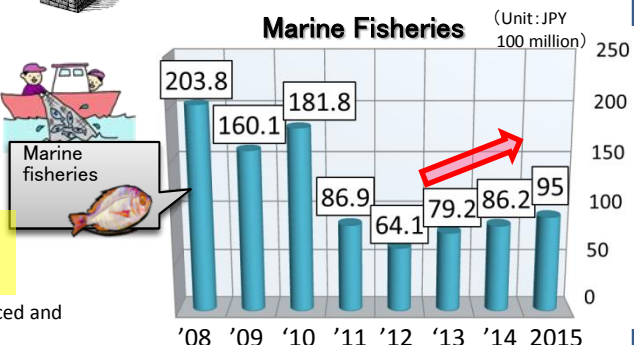
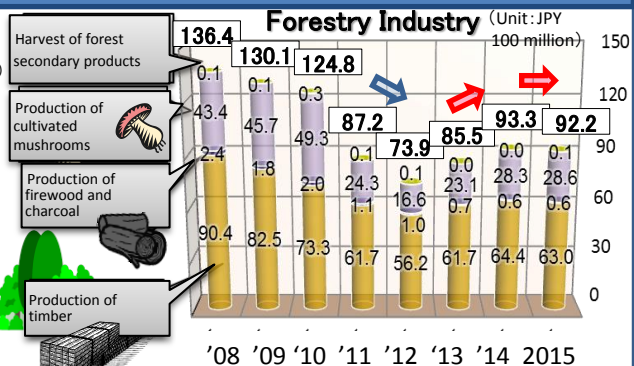
Transition in the amounts of agricultural products produced in the prefecture

Amount of agricultural products (Unit: JPY 100 million)



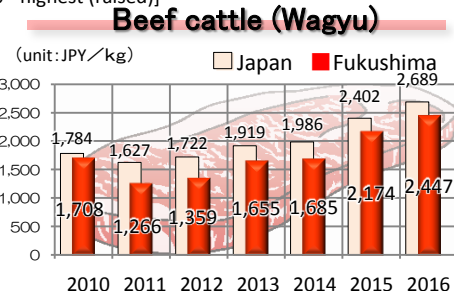
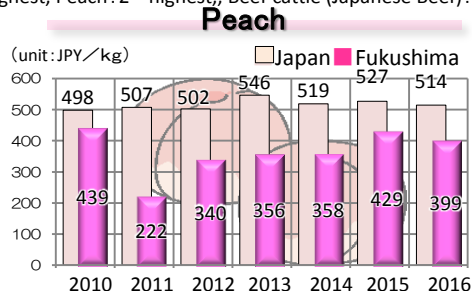
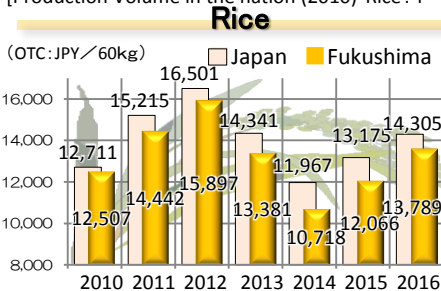
* In terms of rice, crop acreage and yield increased after 2012, but in 2014 and 2015, the nationwide rice price sharply dropped and the rice output also significantly dropped in the prefecture, as well.

Data: Prepared based on Statistics of Agricultural Income Produced, Forestry Income Produced and Fisheries Income Produced by the Ministry of Agriculture, Forestry and Fisheries



Transition of the price of agricultural products representative of Fukushima

[Production Volume in the nation (2010) Rice: 4th highest, Peach: 2nd highest,, Beef cattle (Japanese Beef): 10th highest (raised)]



[Source] MAFF Projection of OTC trade of Rice

[Source] Market statistics on website of Tokyo Central Market

Public relations for products that primary industries produced in the prefecture

In order to restore the reputation of Fukushima's products, the prefecture is carrying out a variety of PR activities to appeal a wide variety of delicious products that are safe and secure.



On August 3 and 4, 2017 Fukushima Prefecture held the Fukushima Sake Festival in Tokyo's SL Square in front of JR Shimbashi Station. The festival commemorated Fukushima's success in taking top place at the Japan Annual Sake Awards with the highest number of gold medals awarded for 5 consecutive years. Over 30,000 people visited the event which featured 158 brands from 54 breweries and enjoyed the qualities of Fukushima Sake, No1 in Japan.



Top sales of Fukushima agricultural products: Visit to Malaysia and Vietnam

In August, 2017, Governor visited Malaysia and Vietnam met with an import company based there. He explained the steps Fukushima is taking to ensure for safety of its agricultural products and their high quality. Accordingly they reached an agreement to increase the export volume of rice to 100 tons and 15 tons of peaches annually. This doubles the previous export volumes.



The governor also conducted a promotional event at a mall in Kuala Lumpur, introducing the deliciousness of Fukushima products. He then travelled to Vietnam for the first time to promote Fukushima peaches with a sampling and sales event at a mall in Ho Chi Minh City. Those trying the samples expressed their deliciousness with big smiles. Fukushima recently began exporting peaches to Vietnam for the first time.





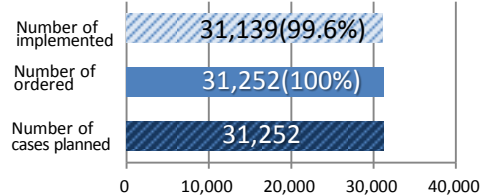
For the prevention of distributing foods containing radioactive materials over the safety standard level, we are decontaminating farmland and intensifying the screening system to confirm the safety.

Particularly, rice which is a staple food, has to go through radiation monitoring. All rice bags produced in the whole prefecture and shipped must be monitored before the shipment.

Decontamination of farmland



Situation of decontamination in farmland(Sep 30, 2017) (Including rice field, farm, orchard and grazing ground)



Monitoring of Fukushima's agricultural, forestry and fishery products

Fukushima's primary products undergo monitoring inspection before being shipped. Any product that is found to exceed the safety standard is banned from being shipped based on the product type and produced area. Products being distributed are confirmed to be safe.

◆ Test results on all rice in all rice bags

(2017.8.22-2017.9.30)

Brown rice Year 2017 production	Total No. of samples	No. of samples exceeding safety standard limits	Proportion of samples exceeding safety standard limits
	Approx. 400 thousand	0	0.00%

Test results are released to the public.

<https://fukumegu.org/ok/contents/>



◆ Inspection* results

(2017.4.1-2017.9.30)

Classification	Total No. of samples	No. of samples exceeding standard limits	Proportion of samples exceeding standard limits
Vegetables & Fruits	2,042	1	0.05%
Livestock products	2,221	0	0.00%
Cultivated edible plants & mushrooms	702	0	0.00%
Marine fishery products	4,287	0	0.00%
Fresh water farmed fish	40	0	0.00%
Wild edible plants & mushrooms	802	1	0.12%
Fresh water fishery products	525	2	0.38%

* Inspection: Fukushima prefecture is carrying out these inspections based on national guidelines.

Reference Safety standard limits for radioactive cesium (Unit: Bq/kg)		
Category	Japan	EU
General foods	100	1,250
Milk	50	1,000
Infant foods	50	400
Drinking water	10	1,000

Data: Consumer Affairs Agency (Govt. of Japan)

◆ Trial Fishing Conducted by the Fishing Industry

Fishermen in Fukushima Prefecture were forced to place a ban on coastal and trawl fishing; however the safety of certain species of fish has been confirmed based on over 40,000 items tested during monitoring inspections. Since April, 2017, the scope of trial fishing has been extended to all species of fish and shellfish **except fish species under shipment ban (10 species).**



All fish produced from the trial fishing that is planned to be sold undergoes inspection for radiation. The Fishery Cooperative Association set voluntary standards [50Bq/kg], stricter than that of the national government for the national standard of "General foods [100Bq/kg]" for catches to be sold through trial fishing, and conduct screening for radioactive substances.

Trial harvesting of Green laver seaweed in Matsukawaura bay, Soma City.

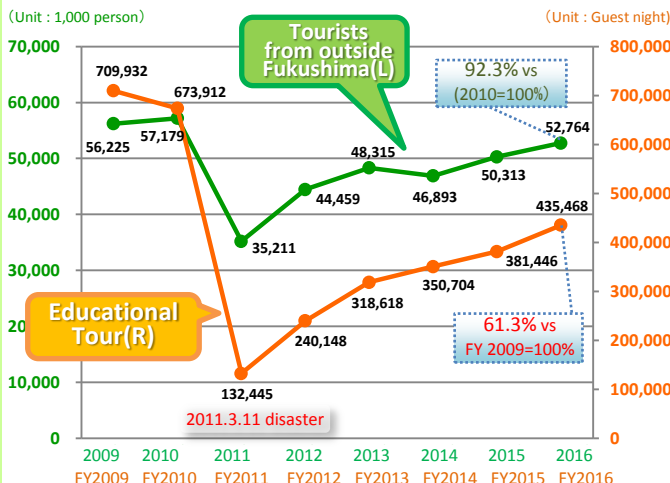
Cultivation and harvesting of Green laver seaweed at Matsukawaura bay was self-controlled after the Great east Japan earthquake and Tsunami disaster, it has been since decided to resume trial cultivation and harvesting starting with seeding of the bay from late August to early September, 2017. Seaweed-nets will then be set in place from October through to December (temporary planting to full cultivation).





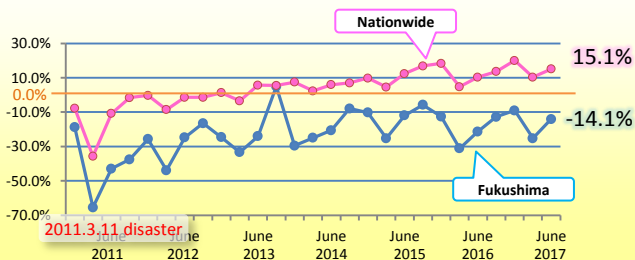
Working towards the Tokyo Olympic and Paralympic Games which are positioned as to support reconstruction, all citizens are united to promote tourism through improvement of hospitality, development of region-centered receiving system and honing of tourism elements.

◆ Changes of the number on tourism in the prefecture



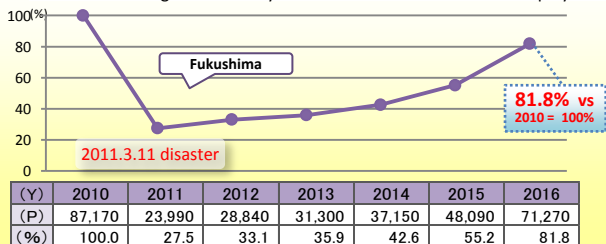
◆ Tourists' accommodation

<Comparison of guest nights on year-to-year basis, After March 2011, compared to the same month in 2010>



◆ Total number of international guests

<Number of foreigners who stayed at facilities with 10 or more employees>



Tourism promotion through event & other information

MIDETTE, Fukushima Antenna Shop in Nihonbashi, Tokyo

3rd anniversary

MIDETTE, Fukushima Antenna Shop in Nihonbashi, center of Fukushima marked 3rd anniversary in April, 2017.

We will convey attractions and current situation of Fukushima featuring public relations for safety and credit of Fukushima products as well as tourism information and progress in reconstruction.



midette

Search

日本橋 しま館 MIDETTE

'Establishment of the 2020 Tokyo Olympic and Paralympic Fukushima Revitalization Promotion Council' All Fukushima heading for the year 2020!

On July 24, 2017, three years ahead of the opening of Tokyo 2020 Olympic Games, we held a general meeting for the establishment of the 2020 Tokyo Olympic and Paralympic Fukushima Revitalization Promotion Council.

This council consists of 144 groups including all municipalities in the prefecture, competing groups, commercial industry, tourism, agriculture, forestry and fishery related groups, as well as, university education groups, youth development groups and media groups.

The whole prefecture will be unified in preparation for the baseball and softball games to be held here during the Tokyo 2020 Games. In addition all of Fukushima will be taking on the challenge of working together to develop plans which utilize this opportunity to invigorate each of the various regions, and create a future for Fukushima.



Tokyo2020Fukushima Information site

Fukushima Plus 2020

Search

The 69th National Tree Planting Festival



June 10, 2018 Minamisoma City

Fukushima Prefecture will be holding the 69th National Tree Planting Festival on Sunday, June 10, 2018. The theme of this festival is 'Let's nurture a forest of hope and forest of life'. The festival will take place in the area afflicted by the Great East Japan Earthquake for the first time. The coastal disaster prevention forest has been designated as a venue for the ceremony. The opening of the festival will take place alongside commemorative events and tree plantings.



Fukushima Autumn & Winter Campaign

We will launch Fukushima Autumn and Winter Campaign, 'Blessed Island in full bloom of fortune' from October, 2017 to March 2018. We are planning to implement 28 special projects and scenic beauty, hot spring, food and Japanese sake-themed projects.

Travel Fukushima

Search

Starting Oct 1, 2017



Serial charter flights between Fukushima Airport and Vietnam was finalized

August 25, 2017
Ho Chi Minh, Vietnam

In August, 2017, Governor visited Vietnam and had a trilateral meeting with Viet Jet Air and Viet Travel, reaching an agreement to fly serial charter flights from Vietnam to Fukushima. In addition to this, we are expecting to fly charter flights to Russia and Taiwan so as to expand operations of our international charter flights.





In 2015 shipment values for industries related to beverages, tobacco, livestock feed and communications equipment dropped. This was coupled with an overall drop since the previous year. However, there has been a pattern since 2012 of increasing shipment values. When the entire prefecture shipments are taken into account, shipments have mostly recovered to pre-disaster levels. In order to continue development of local industries, we will continue to support the operation and resumption of small to medium-sized businesses which form the core of regional economies, as well as secure employment opportunities through the promotion of company investment into the prefecture.

Changes in the shipment value of products (※)

Nationally, the shipment value recovered to levels exceeding the pre-disaster value observed in 2010. In 2014 Fukushima Prefecture had almost recovered to the pre-disaster level, and then slightly declined in 2015 compared to the previous year. However, in spite of that, an increasing trend is ongoing. On the other hand, since 2011 the shipment value in Futaba County where residents were forced to evacuate due to the nuclear power accident has remained down around 10% of pre-disaster level. We think it is necessary for us to further promote revitalization in Futaba County and other evacuation-ordered areas as well as the coastal area.

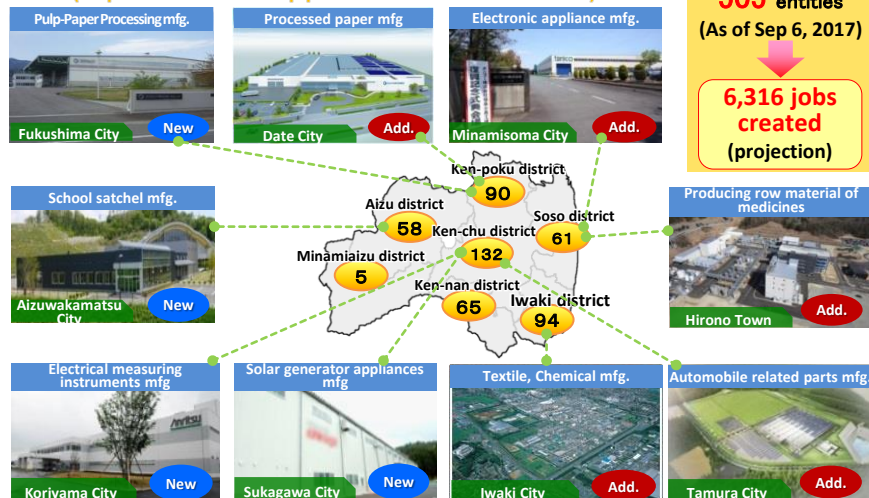
Fukushima



※ Total of annual shipment value of manufactured products, income of processing fee and other incomes of business establishments with 4 or more employees that belong to the manufacturing industry.
(note) Those being temporarily closed or in preparation are not included.

◆ Fukushima business investment subsidy for revitalization of industries

Approx. JPY203.5 billion
(equivalent of approx USD1.83 billion)



Allotted to
505 entities
(As of Sep 6, 2017)

6,316 jobs created
(projection)

◆ Subsidy to business investment for employment creation in the tsunami and nuclear disaster-affected areas

JPY85.5 billion

We support companies that set up new factory or additional factory inside the prefecture. Those activate business and create jobs.

176 entities

(As of July 14, 2017)

2,437 jobs created
(projection)

◆ Subsidy for investment promotion for the support of self-help and return and the employment creation

JPY24.9 billion

In order to secure jobs for disaster-affected people and accelerate support for their independence and ability to return to the areas they evacuated from, we will support companies that are planning to newly or additionally build plants in the evacuation-ordered areas, and make efforts to create employment and cluster industries.

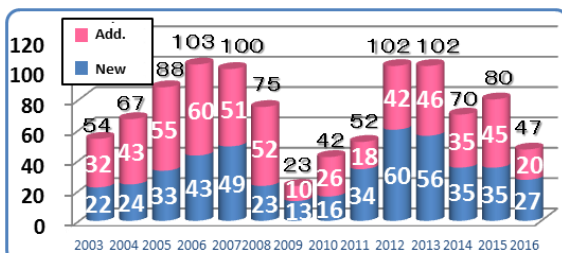
38 entities

(As of Nov. 30, 2016)

388 jobs created
(projection)

Number of new and additional construction of factories

Situation of new and additional construction for plants (sites over 1,000 m² in area) in Fukushima Prefecture



Measures for restoration and revitalization of small and mid-sized enterprises(SMEs)as well as securing employment

1 Support for restoration of facilities and equipment

Name of Subsidy	Applied Period	Allotted number
Subsidized project for restoration and maintenance of group facilities including SMEs	FY2011-FY2016	389 groups+3837 companies Sum: JPY 116.8 billion
Support project for restoration and revitalization of SMEs	FY2011-FY2016	3,935 cases Sum: JPY 8.8 billion
Support project for resumption of businesses	FY2016	388 cases Sum: JPY 3.7 billion

2 Support for financing

Name of Project	Applied Period	Cases/ Sum
Special fund for Fukushima Revitalization	FY2011-FY2016	21,368 cases/ Loans JPY359.7 billion
Special fund for SMEs in special areas	FY2011-FY2016	909 cases/ Loans JPY 15.4 billion

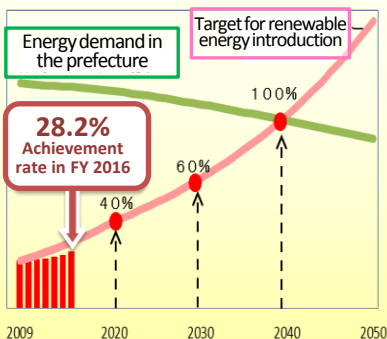
3 Employment support projects

Name of Project	Applied Period	Jobs created
Emergency Job Creation Project	FY2011-FY2016	71,934 jobs
Fukushima Support Project for Industrial Revitalization and Employment	FY2011-FY2016	28,149 jobs



For the revitalization and recovery of Fukushima, it is necessary not just to restore things to how they were before the disaster, but create new, leading enterprises. Revitalization of the prefecture is currently being propelled by the development of hubs for R&D and industrial creation in a wide variety of fields.

Renewable energy promotion



Fukushima has a target to produce enough renewable energy to supply 100% of the energy demand in the prefecture by 2040. This will be achieved by increasing renewable energy introduction, and building hubs through the clustering and development of relevant industries.

Strengthen ties with NRW, Germany



As part of the promotion of renewable energy and medical industry fields in the prefecture, we are promoting collaborations with overseas countries. We concluded a memorandum of understanding with the State of Nordrhein Westfalen, Germany in the fields of renewable energy and medicine in 2014, and since then we have been promoting business exchanges. We renewed the MOU in January, 2017 for cooperation of the renewable energy industries, and in August, 2017 for cooperation of the medical industries. As part of this an agreement was made to strengthen the support system for companies in both regions. When the governor visited Germany in January, he met with influential figures of the state



government including the prime minister of NRW. They both committed to further strengthening cooperation between Fukushima Prefecture and NRW as well as deepening exchange between both regions. By utilizing the robust network with NRW, we will wholeheartedly support efforts by local companies for expanding market opportunities in Europe, Germany and throughout the world.



Renewable energy bases and projects in Fukushima prefecture

Fukushima Renewable Energy Research & Development Center



Koriyama City

Photo: AIST

National Institute for Advanced Industrial Science and Technology (AIST) developed R&D hub centers for renewable energy. Smart System Research Building started operation on April 1, 2016.

Geothermal Hot-springbinary Tsuchiyu Onsen power plant



Fukushima City

Operating

400 KW

Coastal Area Mega Solar Power Project



Minamisoma City

Scheduled to operate in 2018

70 MW

Hydrogen project as part of the renewable energy movement

There will be a demonstration of large scale hydrogen manufacturing using renewable energy, next generation hydrogen transportation and storage technology in Namie Town (Tanashio and Ukedo district). It will be up and running by 2020 with the plan of providing Fukushima-made hydrogen for the Tokyo Olympic and Paralympic Games.



Namie Town

Operation will begin in 2020.

Promotion of Smart Community Concept

Using a system for effective use of distributed energy by providing heat and electricity with renewables, such as solar power and wind power and LNG for building of towns for revitalization.

- A Shinci Town B Soma City
- C Namie Town D Naraha Town

Fukushima Floating Offshore Wind Farm Demonstration Project



Offshore of Fukushima Pref.

"Fukushima Shimpu" 7MW (Height: 189m) in Operation

Operations are in progress to verify the safety, reliability, and economic efficiency of floating offshore wind farm systems. The aim is to build a R&D hub, and cluster the wind power industry.
<Operation start month>
[1st stage] 2MW system / Nov 2013
[2nd stage] 7MW system / Dec 2015
[2nd stage] 5MW system / Feb 2017

Green Energy Aizu, Biomass Power Station



Aizuwakamatsu City

Operating

5.7 MW

Koriyama Nunobiki Kogen Wind Farm



Koriyama City

Operating

65.98 MW

Photo: J-POWER

Okuma Town Furusato Revitalization Mega Solar



Okuma Town

Operating

1.89 MW

Tomioka Revitalization Mega Solar SAKURA



Tomioka Town

Operating

19.8 MW

MOU with Thailand

In June 2017, a memorandum of understanding was concluded with the Department of Industrial Promotion, Ministry of Industry and the Kingdom of Thailand regarding the medical industry field. Based on this MOU, Fukushima will establish joint support systems for small and medium-sized enterprises as well as close relations in the economic field.



Between September 6 and 8, 2017, Fukushima set up a booth alongside 8 local companies at 'Medical Fair Thailand', the largest medical device exhibition held in Bangkok, Thailand.

Exhibition at
'Medical Fair
Thailand' from
September 6 to
8, 2017.



On October 25 and 26, we invited 7 important figures related to the kingdom of Thailand to 'Medical Creation Fukushima', a medical device trade fair held in Fukushima Prefecture for the business matching of companies based in the prefecture.

Medical – Industry Translational Research Center (Radiation Medical Science Center)

Re-posting (P.7)



Medical

In order to serve as a bridge between the medical and industrial fields, the center acts as a hub to promote the creation of reagents, therapeutic, and diagnostic drugs used mainly for cancer treatment.

Place Fukushima City
(Fukushima Medical University)

Aizu University Revitalization Support Centre (Advanced ICT Laboratory)



ICT

The prefecture is making efforts to help clustering and foster human resources for businesses that are using ICT to promote regional industry. The support center is part of plans to install an R&D hub that will lead to cutting-edge ICT research, and the creation of new ICT industries.

Place Aizuwakamatsu City
(Aizu University)

Fukushima Innovation Coast Framework

With a purpose to recover industry and employment of the coastal region which were lost by the disaster and nuclear power accident, we will recreate new industry and employment through the project, which is fostering of human resources who are the key players in the future, for the recovery of the coastal region where residents can return and work with peace of mind.



This framework was legalized by the revision of the act on Fukushima special measures (promulgated and executed on May 19, 2017), and will be further promoted.

A Fukushima Robot Test Field



1 Fukushima Robot Test Field
To conduct demonstrative tests and performance assessments of disaster response robots

Namie Town Minamisoma City

2 International Joint Research Institutes of Industry, Academia (Robot)

National and international researchers will gather to conduct fundamental research on robotics..

Minamisoma City

B Okuma Analysis and Research Center (Laboratory for analysis and research of radioactive substances)



To understand properties of fuel debris and develop disposal technology

D Information release hub (archive)

We will correctly convey the actual status of the Great East Japan Earthquake and the Nuclear power disaster as well as our efforts toward revitalization. Moreover, we will pass down and share the information as a lesson we learned beyond countries and generations.



Futaba Town

C International Decommissioning Joint Research Center, International Joint Research Building

Photo: JAEA



The facilities for universities, research institutions, corporations and other entities of various fields in and outside Japan to collaboratively use for reactor decommissioning study and to cultivate human resources.

Tomioka Town

E Naraha Remote Technology Development Centre (mock-up Centre)

Photo: JAEA



We will be developing and conducting demonstrative experiments with robots for research and repair of containment vessels of nuclear reactors. Facilities such as equipped with measuring devices and manufacturing machinery will be available for use by small and medium-sized enterprises.

Naraha Town

Fukushima Medical Device Development Support Centre



Medical

The center is established to provide comprehensive support for medical devices from development to commercialization. Support includes safety assessment using large animals, and machine operation training for medical personnel, which opened on 2016.11.07.

Place Koriyama City

The prefecture's Fukushima Revitalization Plan(the 3rd edition)

Digest version is available on <http://www.pref.fukushima.lg.jp/site/portal-english/rev-plan-3.html>

Fukushima Prefectural Govt.
Budget for Fiscal Year 2017
(April 2017-March 2018)

JPY1.72 trillion

Incl. East Japan Earthquake and nuclear
disaster portion: JPY 0.88 trillion

Revitalization evacuation area

Acceleration project
for evacuation area

53.0 billion JPY

Building of towns based on the hub of revitalization, strengthening of wide-area infrastructure, promotion of wide-area cooperation, reconstruction of system for provision of medical care, recovery of industry and jobs, promotion of Innovation Coast Concept, fostering of human resource for the future

Living in peace and security

Assistance for re-
building livelihoods

74.8 billion JPY

Assistance for evacuees, measures for returning of evacuees to their homes, rebuilding of livelihoods after returning. Fulfillment of a support system for evacuees



Environmental
restoration

242.7 billion JPY

Promotion of decontamination, securing of food safety, disposal of waste, Promotion of research at the Environmental Creation Center, Safety surveillance for decommissioning



Protecting the physical
and mental health of
citizens

15.1 billion JPY

Maintenance and promotion of citizens' health, reconstruction of regional medical services, development of systems providing cutting edge medical service and mental care for the disaster affected residents



Fostering the next
generation project

19.0 billion JPY

Development of the best environment in Japan for people to give birth and raise children, human resources who remain viable, and workforces who are responsible for the future industry



Work in your hometown

Primary industry
revival

54.0 billion JPY

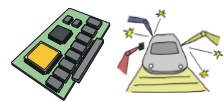
Measures to provide safety and peace of mind, recovery of agricultural, forestry and fisheries industries and response for reorganization of designated areas



SMEs
revitalization

116.6 billion JPY

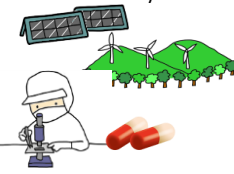
Vitalization of SMEs in the prefecture, promotion of business investment



New industry
creation

34.8 billion JPY

Promotion of renewable energy, clustering of medical and welfare devices, clustering of robotics industry



Rebuild towns, connect people

Project to counter harmful
rumors and to preserve
remembrance of the disaster

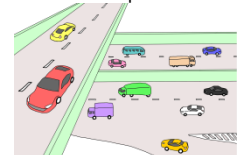
12.8 billion JPY

Recovery and opening up of market channel of our products, such as primary products; promotion to increase tourists and recovery of educational tours; Release of accurate information to the rest of Japan and the world; Promotion taking the opportunity of Tokyo Olympic Game and Paralympic Game

Town-building for revitalization
and exchange network basis
strengthening

156.0 billion JPY

Promotion of town-building for tsunami-affected areas, development of traffic infrastructure, counter-measures for disaster reduction and prevention.



Countermeasures against depopulation and aging

42.1 billion
JPY

Building of a prefecture where people can comfortably live, work, give birth and raise children; elderly people can easily live and youths and women can actively join the social activities.

Topics

A new promotional poster for 'Fukushima Today' has been completed.

Fukushima Prefecture has produced 5 kinds of new promotional posters for the 'Fukushima Today' campaign. Mr. Michihiko Yanai, creative director for the prefecture, has included many aspirations in the simple phrases: "Come", "Drink", "Taste", "Live", "Fukushima". We are currently recruiting volunteers to help put up these posters. Posters will be sent out free of charge to volunteers. Through your cooperation we hope that the movement for putting up these posters will enlarge nationwide.

来て
Come

飲んで
Drink

味わって
Taste

住んで
Live

ふくしま
Fukushima



Work has started on J-Village, the all weather soccer training field.

On March 25, 2017, a groundbreaking ceremony was held at J-Village, the all-weather soccer training field. J-Village served as a base of operations for dealing with the accident at the TEPCO Fukushima Daiichi Nuclear Power Station. This facility is central for the redevelopment plan to be implemented by the prefecture. This ceremony was a major first step toward the revitalization of J-Village. The training facility will use artificial grass for the internal training fields.

The total building area is approximately 10,000㎡, large enough for one soccer field. It is the first of its kind in Japan. We are planning to offer it for use in line with the resumption of operation in the whole area in April, 2019.



Pacific Islands Leaders Meeting "Kizuna-Friendship" Exchange Program



From August 7 to 9, 2017 we organized a three-day two-night tour around Fukushima Prefecture, inviting students from Pacific Island countries and university students studying at universities located in Fukushima.

By taking part in discussions and touring locations throughout the prefecture, students were able to deepen their understanding of each other's cultures. Participants said that they learned a lot about the state of Fukushima's revitalization and shared their experiences and photos on social media. The program proved to be a success for raising awareness about Fukushima through social media.



New JET Programme participants arrive in the prefecture

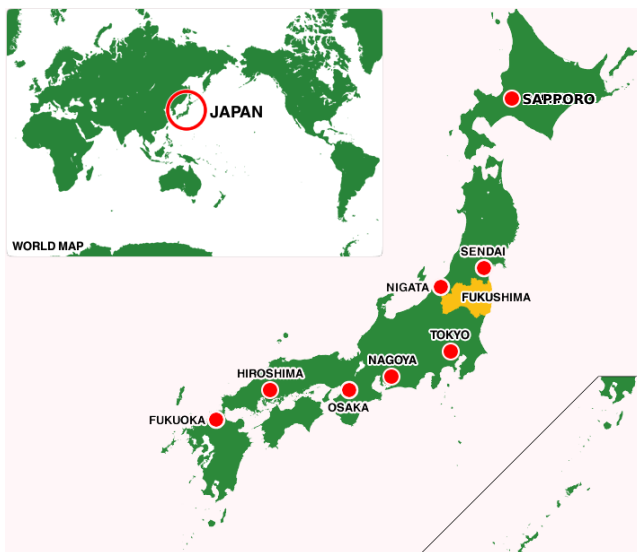
In July and August, 2017 Fukushima welcomed 37 new JET Programme (The Japan Exchange and Teaching Programme) participants from around the world including USA, UK and Canada. Their arrival brings the total number of JET participants in the prefecture up to 141.



They are engaging in international exchange as well as teaching English to elementary, junior high and high school students. Through this programme they are enjoying both life in Fukushima and the opportunity to be able to interact with people in their local communities and their students.



Fukushima Prefecture outlines



Basic Data

- Capital : Fukushima City
- Population : 1,881,382 (Oct 2017)
- Area : *13,783km²
- *Evacuation designated zones: 371km²(Oct 2017)

Access

- Roughly 200km away from Tokyo
- JR Tohoku bullet train
 - Tokyo-Koriyama Station 80 min
 - Tokyo-Fukushima Station 90 min
- NEXCO Highways
 - Tohoku expressway
 - Joban expressway
 - Ban-Etsu expressway
- Fukushima Airport
 - Fukushima Airport <->Itami(Osaka)
 - Fukushima Airport<->New Chitose (Hokkaido)



Fukushima Revitalization Station Portal site of revitalization progress

<http://www.pref.fukushima.lg.jp/site/portal-english/>

Steps for Revitalization in Fukushima the latest version is available on
<http://www.pref.fukushima.lg.jp/site/portal/ayumik-1.html>



Fukushima Prefectural Government

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