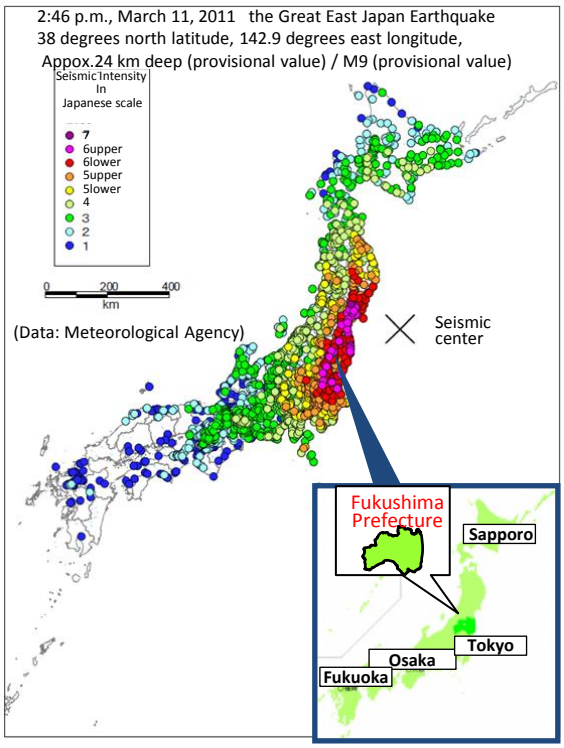
Steps for Revitalization in Fukushima

< August 4, 2017 >

ふくしまから
はじめよう。
Future From Fukushima.
Fukushima Prefecture

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 2017.7.31

◆**Deaths : 3,985**
(This number includes 2,157 disaster-related deaths(※1)
◆ **Missing: 3**（※2）

(※1)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. (※2) For the 227 people missing, 224 have had death notifications issued, and are counted as deaths.

<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 2017.7.31
◆Totally damaged**: 15,224** houses
◆Half damaged: **80,793** houses


Inland area was severely damaged


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 July 2017 roughly 58 thousand people are still under evacuation.

The areas under evacuation orders have changed such as with the lifting of the restricted residence zone and 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.

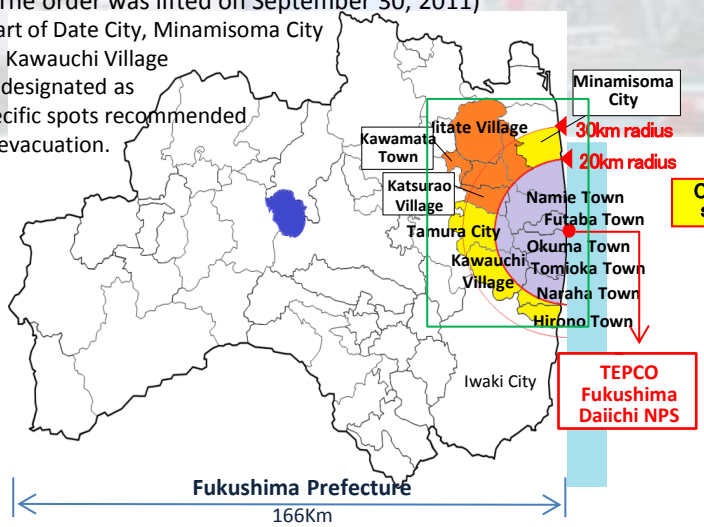
[2011.3.12]

- ◆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]

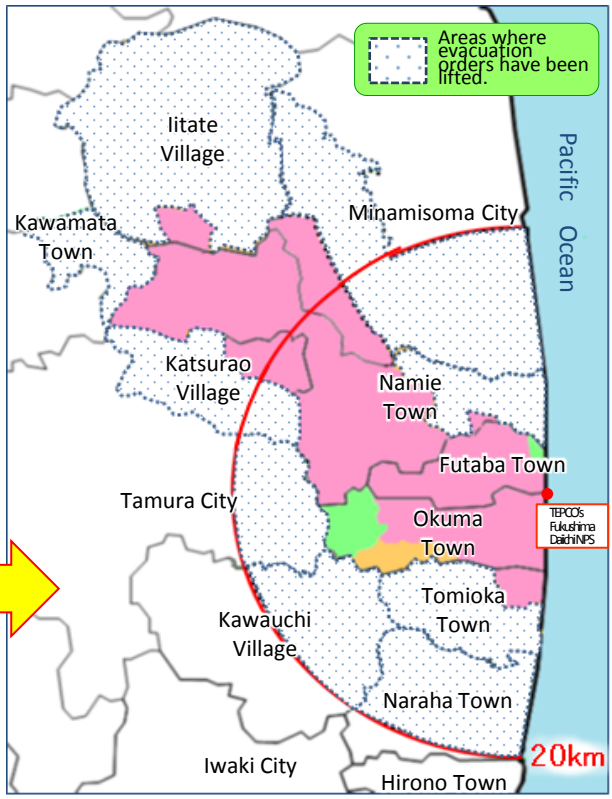
- Evacuation-designated areas (Restricted areas)
- Deliberate evacuation areas
- Emergency evacuation preparation areas (The order was lifted on September 30, 2011)

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



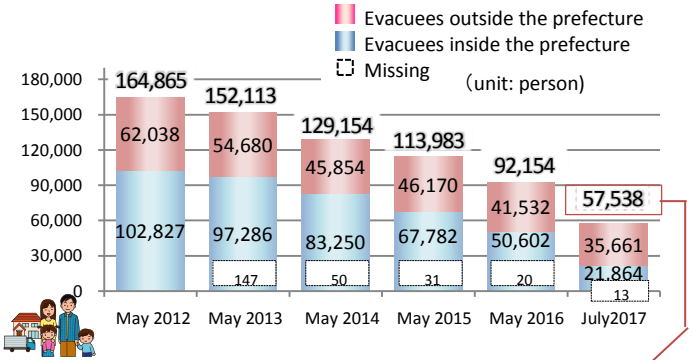
Current status

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



Difficult-to-return zone	・Annual integrated doses are over 50mSv. ・Entry is prohibited with some exceptions. ・Lodging is prohibited.
Restricted residence zone	・Annual integrated doses are between 20 and 50 mSv. ・Entry is permitted, and business operation is partially permitted . ・Lodging is prohibited with some exceptions.
Evacuation order cancellation preparation zone	・Annual integrated doses are below 20 mSv. ・Entry is permitted, and business operation is permitted . ・Lodging is prohibited with some exceptions.

◆ Nearly 58 thousand people from Fukushima continue to live as evacuees (Earthquake, Tsunami, NPS accident)

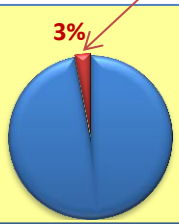


Reference

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

1,884,646 people

(As of July, 2017)



◆Cancellation of evacuation orders

On March 31, 2017, evacuation orders issued to the restricted area and areas to which evacuation order is ready to be lifted including Kawamata Town, Namie Town and Iitate Village were lifted. Moreover, on April 1, 2017, the evacuation order issued to Tomioka Town was lifted, as well.

◆International Joint Research Building (the International Joint Research Center for Decommissioning) opened.

The Japan Atomic Energy Agency (JAEA) developed the International Joint Research Building (the International Joint Research Center for Decommissioning). It was completed and the opening ceremony took place on April 23, 2017. Along with the Naraha Remote Technology Development Center (Naraha Town) which started its full operation in April, 2016 and the Okuma Analysis Research Center (Okuma Town) which is under construction, it is positioned as one of the hubs of decommissioning research in the Fukushima Innovation Coast Framework.

This facility will proceed with R & D including analysis technology of molten debris as well as development of human resources who will be involved in the decommissioning process.

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 2017.6.30)

Temporary housing units built	14,527 units (3,753 units have tenants)
Temporary housing units built	6,346 units in the prefecture
Housings reconstructed	21,610 cases (vs 32,634 application, 66.2% progress)

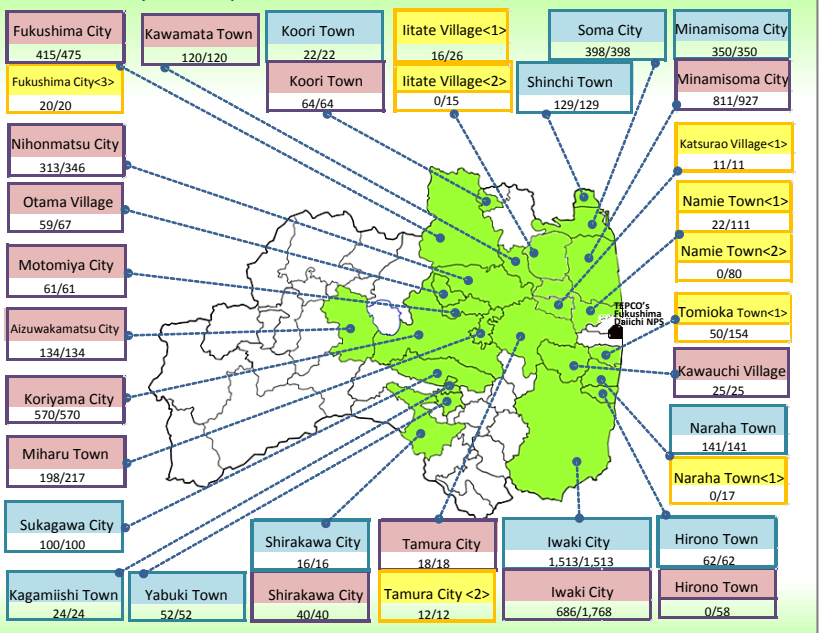
◆Developmental situation of disaster public housing

(As of 2017.6.30)

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	3,514（72%）
<1> For returnees	319	For evacuees from evacuation areas	99（31%）
<2> For returnees or For people moving in	107	・For evacuees from evacuation areas ・Voluntary evacuee ・New comers	12（11%）
<3> For household raising children	20	Household raising children aged 18 or under (voluntary evacuees)	20（100%）

Breakdown by municipalities

[completed/ planned]



Provision of the emergency temporary housing units and new support

- Emergency temporary housing units: Evacuees from Evacuation Designated Zones are available until March 2018.
- Provision for evacuees from areas other than areas under evacuation order has finished on March 31, 2017. For households in need of continued evacuation, the prefectural government started to accept applications for the subsidy of rent for privately-run apartments as a support program for the reconstruction of livelihoods from October 3, 2016. The Private Apartment Rent Subsidy Center is accepting applications..

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 Iitate 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.

Jointly operating four elementary schools

Groundbreaking of the Futaba Medical Center (tentative name) (Tomioka Town)

On June 7, 2017, a ceremony to pray for the safety of construction and groundbreaking took place at the Futaba Medical Center (tentative name). We secured 24/7/365 emergency medical services and secondary emergency medical services including medical services to support resumption of home medical services that are required in the Futaba area and support "environment where local residents can work with peace of mind", "environment where people engaged in the revitalization projects can work with a sense of security", and "environment where companies can do businesses with security" from the medical aspect. Futaba Medical Center (tentative name) is expected to open in April, 2018.

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.

On March 30, 2017, the function of the Futaba Police Station was transferred from the temporary municipal office in Naraha Town to the main municipal office in Tomioka Town. By doing that, we reinforced the alert to keep supporting revitalization process in terms of 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

279 life support counsellors have been assigned to social welfare councils in 23 municipalities throughout the prefecture (as of 2017.6.1)

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.

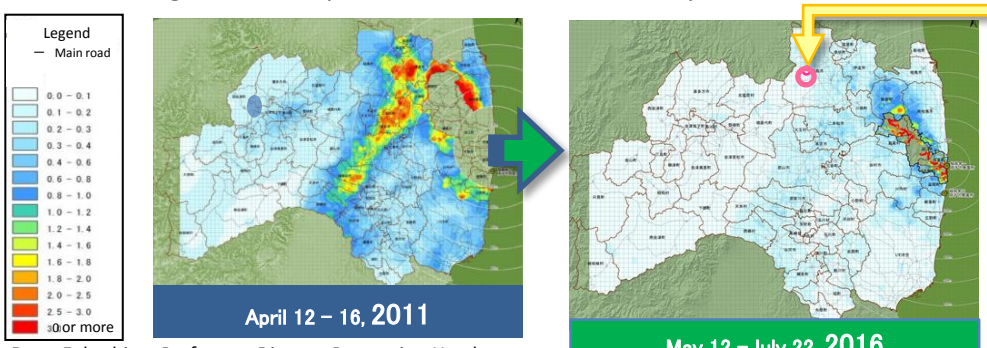
Providing them with information for rebuilding of livelihoods through face-to-face interviews, individual phone consultation and exchange sessions.

A Consultation Center in Saitama Prefecture

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.

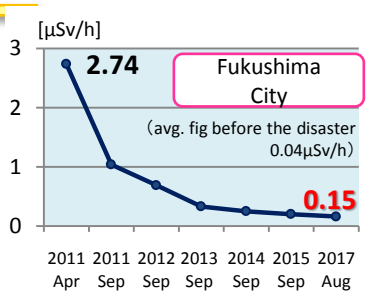
Transition of air radiation dose in Fukushima Prefecture

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



Data: Fukushima Prefecture Disaster Prevention Headquarters (provisional value)

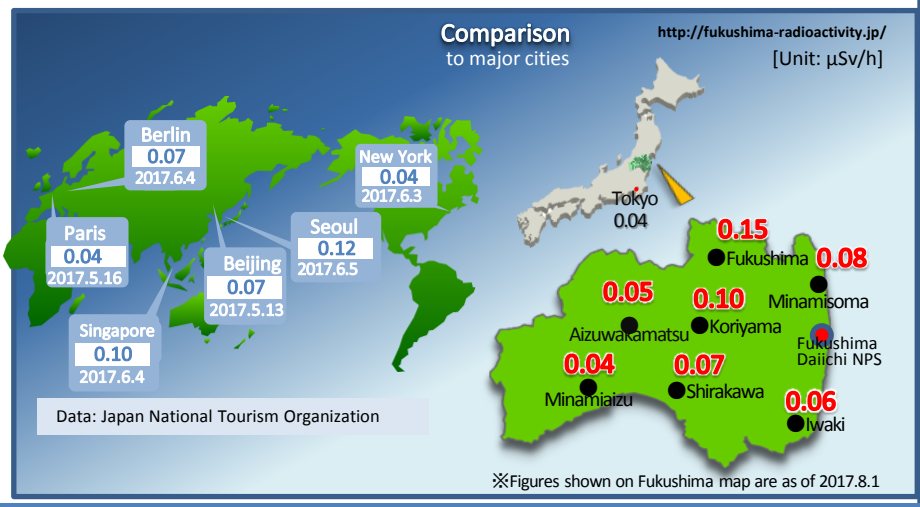
◆Transition of measurements(1)



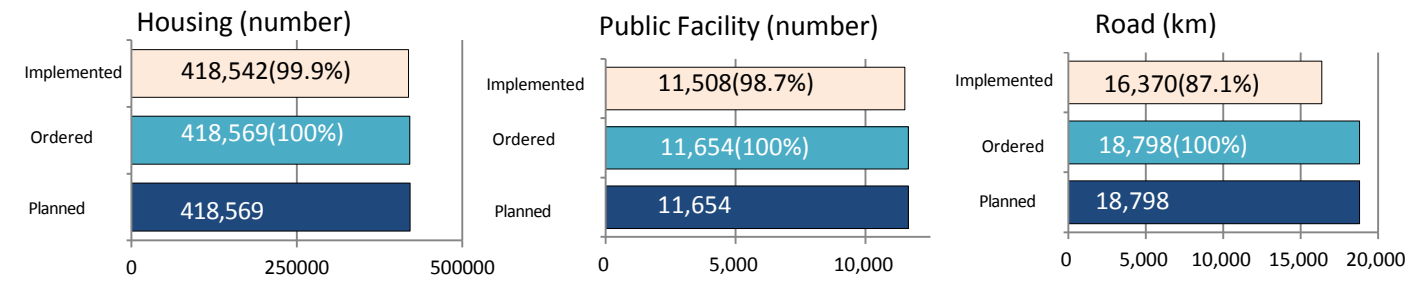
◆Transition of measurements(2)

[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
Aug2017	**0.15**	**0.05**	**0.06**



Decontamination Progress in < Intensive Contamination Survey Area > (As of 2017.5.31)

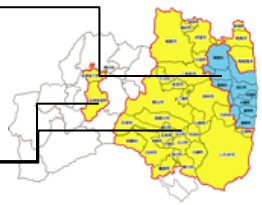


＜Special Decontamination Area＞

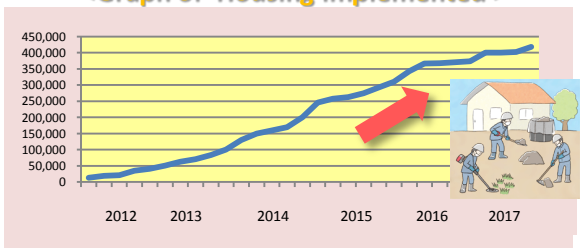
The national government plans and conducts decontamination in **11** municipalities.

＜Intensive Contamination Survey Area＞

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



<Graph of Housing implemented >

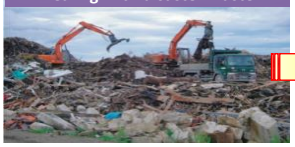


◆Disaster waste disposal

(As of March 31 2017, Unit:1,000 tons)

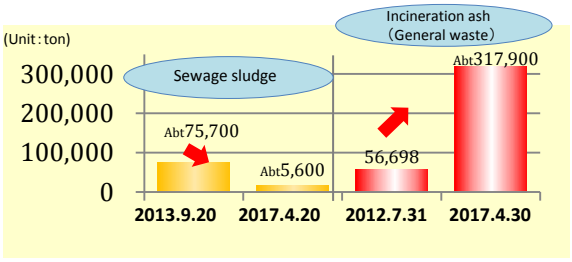
Region	Generation estimated	Actual amount	Amount having been dealt with
Coastal	2,944	3,161	2,734 (92.9%)
Central	1,056	1,059	1,056 (100.1%)
Aizu	19	19	19 (100.0%)
Total	**4,019**	**4,239(105.5%)**	**3,809 (94.8%)**

Dealing with disaster waste



A temporary incinerator

◆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

(Unit: site)

Location	As of March 31, 2014	As of Dec 31, 2016
Temporary storage sites based on the decontamination plan	664	864
Others	104	36
Storage where it generated, such as house garden, factory site, school ground	53,057	149,330
Total	**53,825**	**150,230**

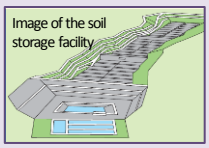
Total of 52 municipalities in the prefecture: excluding 7 municipalities where the whole areas are designated as special areas for decontamination (Naraha Town, Tomioka Town, Okuma Town, Futaba Town, Namie Town, Katsurao Village and Iitate Village)

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 298,000㎥ was transferred from March, 2015 when the transportation started to late May, 2017, and transportation for 19 municipalities out of intended 52 has been completed. In terms of transportation in FY 2017, we are planning to transport 500,000 ㎥ which is also 3 folds of the previous year from 33 municipalities while prioritizing to carry out removed soil stored in school yards. Regarding the facility development, groundbreaking of construction for the first full-fledged facilities, "reception and classification facility" and "soil storage facility" took place in Okuma Town and Futaba Town in November, 2016, and they will start reception and storage this autumn.

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.



Centre for Environmental Creation <CEC>

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 exchange building, "Commutan Fukushima. "

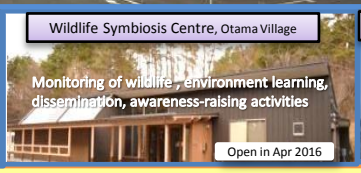
Centre for Environmental Creation Main Facilities (Miharu Town)

Open in July 2016

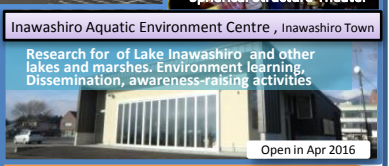
Inside the Exchange building

Environmental radiation Centre (Minamisoma City)

Wildlife Symbiosis Centre, Otama Village



Inawashiro Aquatic Environment Centre , Inawashiro Town



IAEA cooperation

Fukushima Prefecture is currently proceeding with 10 projects in cooperation with the IAEA (International Atomic Energy Agency).Projects include the review of decontamination technology used for rivers and lakes, and studying the movement of radioactive materials contained in wild animals.]

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 …

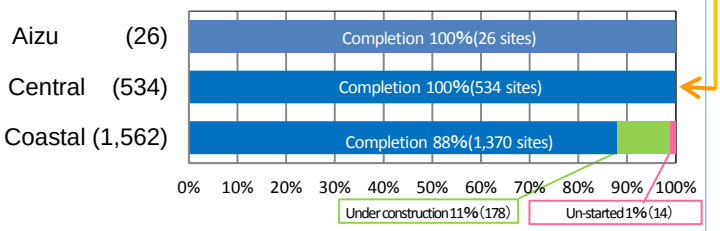
On-site inspection by IAEA experts

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 June 30, 2017)

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	2,122	2,108	99%	1,930	91%	
River and sand erosion control	272	271	99%	248	91%	FY2019
Coast	157	156	99%	109	69%	FY2019
Road and bridge	798	795	99%	775	97%	FY2017
Port and harbors	331	331	100%	321	97%	FY2017
Fishing port	467	458	98%	380	81%	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>

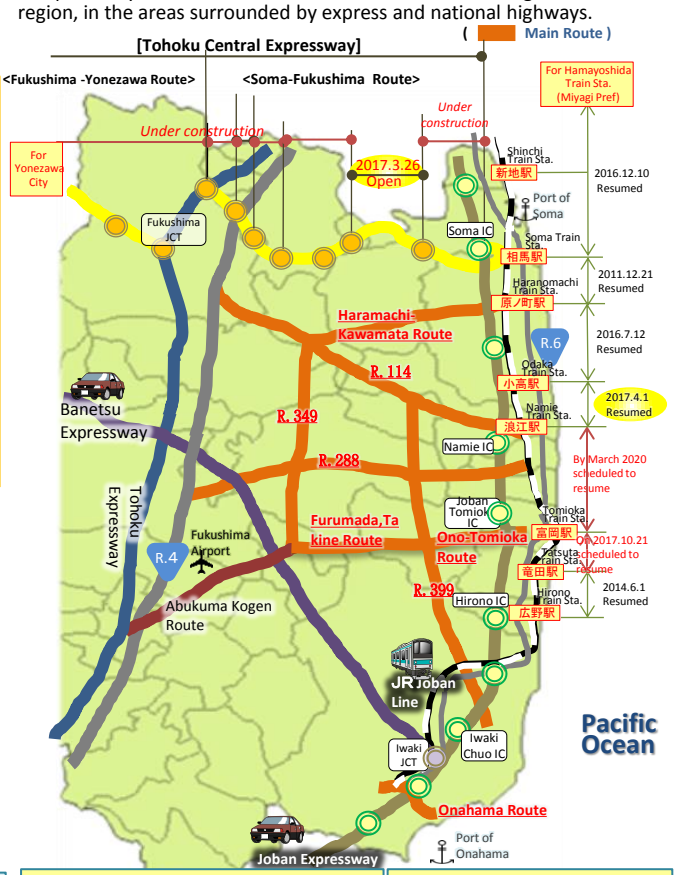
Number of sites to be assessed (sites intended for restoration work)

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.]

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.



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

JR Joban Line

Operation status as of June, 2017

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

Substitute Bus Operation
- Tatsuta-Haranomachi Train Sta.
- Tatsuta-Tomioka Train Sta.

Operation of wide area bus services in the evacuation area

Operation started in April, 2017

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

From April 1, 2017, bus route services that connect municipalities in the evacuation area are resumed to help locals who have returned home live their daily lives with peace of mind.

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	* 4,033 ha	17,200 bodies	740 bodies	3,093 districts	
	Area of farmland affected by tsunami following the Great East Japan (Excluding Evacuation Designated Zones)	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	310 bodies	2,759 districts	2,550 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 (%))	**63.0%**	**61.0%**	**41.9%**	**89.2%**	**82.4%**
Aggregated date	2017.3	2014.3	2015.12	2017.3	

* 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

Citizens residing in the prefecture as of March 11, 2011 (2,055,267 persons)

Self-administered questionnaires: 27.6%
(As of 2017.3.31)
[566,680 respondents/ 2,055,267 subjects]

＜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-July2011)

Thyroid Ultrasound Examination

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

Primary Examination (April2011 to March2014)

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.

Full-scale Examination (April2014 - 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 2017.3.31)

Judgement Result		Judgement Contents	Primary Examination		Full-scale Examination (1st round)		Full-scale Examination (2nd round)	
			Examinee	Portion(%)	Examinee	Portion(%)	Examinee	Portion(%)
Judgement A	A 1	No cysts/nodules	154,605	99.2	108,697	99.2	36,928	99.3
	A 2	Nodules smaller than 5.0 mm / cysts smaller than 20 mm observed.	143,574		159,574		68,347	
Judgement B		Nodules larger than 5.1 mm / cysts larger than 20.1 mm observed.	2,293	0.8	2,226	0.8	691	0.7
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

・Judgments A 1 and A2 require follow-up till the next (after FY2014) examination.
・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)

Full-scale Examination
Conducted : Apr 2014- Mar 2016

・Judgments A 1 and A2 require follow-up till the next examination
・In the secondary examination (results were confirmed for 1,681 examinees), 71 examinees were found to be malignant or suspicious malignant. (49 had operation: 49 with thyroid gland cancer)

Full-scale Examination
Conducting: Apr 2016- Mar 2018

・In the secondary examination (results were confirmed for 225 examinees), 4 examinee was found to be malignant or suspicious malignant. (2 had operation: 2 with thyroid gland cancer)

Internal exposure examinations using whole body counters

Cumulative number of examinees (June 2011 – June 2017) 323,465 examinees

<Results of Examination>
Committed effective dose (internal exposure dose radiated within the body throughout one's lifetime)

Below 1mSv	1mSv	2mSv	3mSv
323,439 examinees	14 examinees	10 examinees	2 examinees

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

Surveyed in three 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

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

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

Fukushima Global Medical Science Center

i Radiation Medical Science Center for the Fukushima Health Management Survey
ii Advanced clinical research center
iii Advanced medical treatment section
iv Education and personnel training section
v Medical – Industry Translational Research Center
VI Thyroid and Endocrinology Center
VII Health Promotion Center

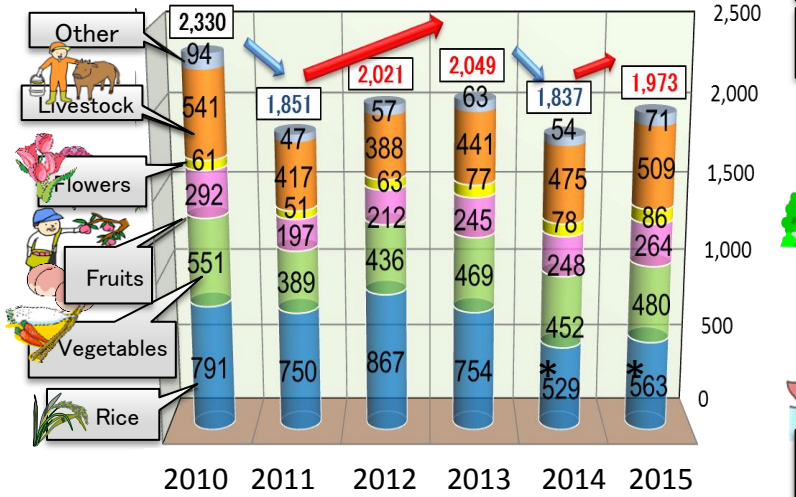
Place	Fukushima City (Fukushima Medical University)
Grand Open	December, 2016

Situation of the agricultural, forestry, and fishery Industries

Production values for the agricultural, forestry, and fishing industries have decreased since 3.11(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 delicious Fukushima products along with the systems in place to ensure food security and safety.

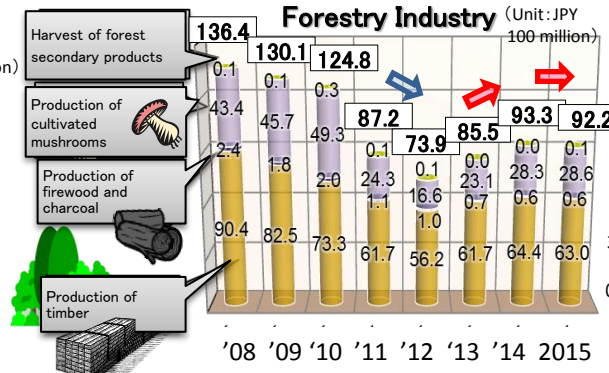
Transition in the amounts of agricultural products produced in the prefecture

Amount of agricultural products (Unit: JPY 100 million)

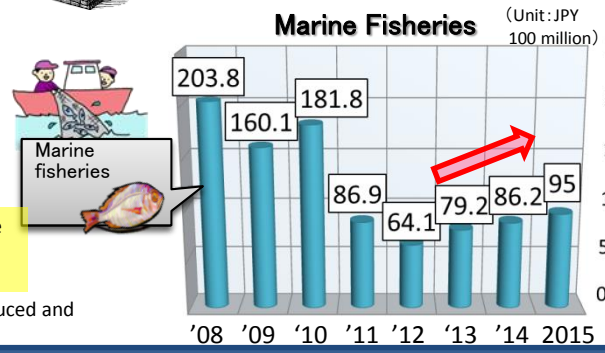


*In terms of rice, crop acreage and yield increased after 2012, but in 2014 and 2015, the nationwide rice price sharply dropped and the rice output also significantly dropped in the prefecture, as well.

Forestry Industry (Unit: JPY 100 million)



Marine Fisheries (Unit: JPY 100 million)

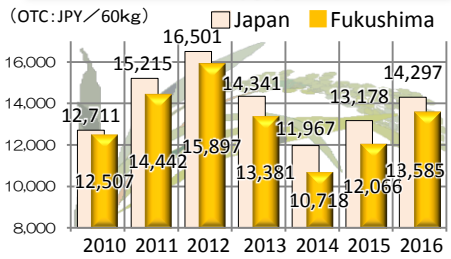


Data: Prepared based on Statistics of Agricultural Income Produced, Forestry Income Produced and Fisheries Income Produced by the Ministry of Agriculture, Forestry and Fisheries

Transition of the price of agricultural products representative of Fukushima

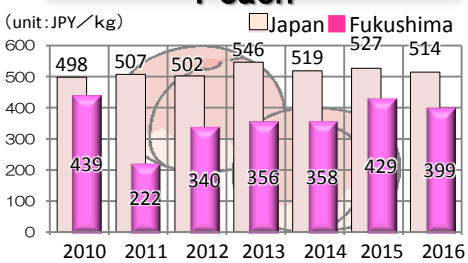
[Production Volume in the nation (2010) Rice : 4th highest, Peach : 2nd highest,, Beef cattle (Japanese Beef) : 10th highest (raised)]

Rice



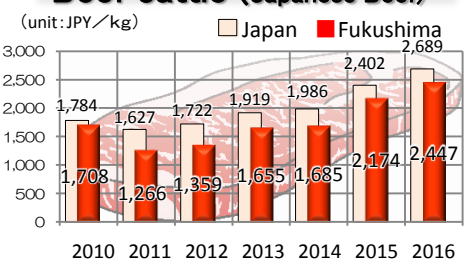
【Source】MAFF Projection of OTC trade s of Rice

Peach



【Source】Market statistics on website of Tokyo Central Market

Beef cattle (Japanese Beef)



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.

Expansion of prefectural peach market to Thailand, Malaysia, and Indonesia

The Ministry of Finance's trade statistics for 2016 were released in January 2017. They showed that Fukushima's peach exports to Thailand, Malaysia, and Indonesia accounted for the highest market share in Japan.

We will continue to promote sales to expand Southeast Asian markets.

Annual Japan Sake Awards Top in Japan! (5 years running)

The results for 2016's Annual Japan Sake awards(*) have been announced. Nationwide 860 brands made submissions with 45 of which being from local brewers. Of those 45, 30 were awarded and 22 among them received gold medals, making the prefecture the top in Japan for the 5th consecutive year with the largest number of gold medals. This also marks the 7th year in total in which Fukushima has been number one for Sake in the whole of Japan.

*Annual Japan Sake Awards is the largest scale new sake appraisal competition in Japan which is jointly held by the National Research Institute of Brewing and the Japan Sake and Shochu Makers Association. This year marks the 105th competition (the first one started in 1911). The number of submissions permitted is only one for each brewer.

Fukushima GAP Challenge Declaration

On May 15, 2017, the Governor Uchibori and President of the Japan Agricultural Cooperatives Fukushima Chuo-kai announced the "Fukushima GAP Challenge Declaration", aiming to acquire accreditation as GAP(*)Top of Japan which is a certificate of better agriculture. We are determined to provide ingredients for 2020 Tokyo Olympic and Paralympic Games and convey our pride and gratitude to the rest of Japan and the world.

*Process management of agricultural production

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.

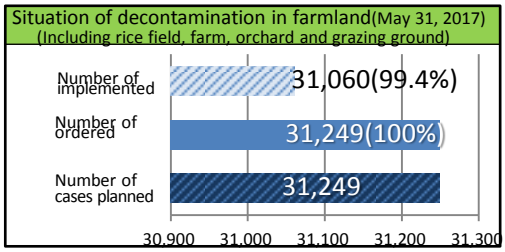
Particularly, rice which is a staple food, has to go through radiation monitoring. All rice bags produced in the whole prefecture and shipped must be monitored before the shipment.

Decontamination of farmland


Scraping off surface soil

Reverse plowing


Cleaning of tree bark



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.

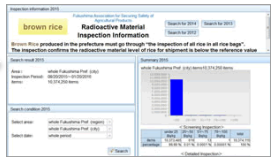
◆Test results on all rice in all rice bags

(2016.8.24-2017.3.31)

	Total No. of samples	No. of samples exceeding safety standard limits	Proportion of samples exceeding safety standard limits
Brown rice Year 2016 production	Approx. 10.24 million	0	0.00%

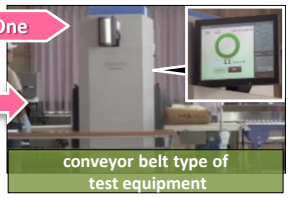
Test results are released to the public.

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



Flow of the test

One by One


conveyor belt type of test equipment

Labels to be traceable

◆Inspection* results

(2016.4.01-2017.3.31)

Classification	Total No. of samples	No. of samples exceeding standard limits	Proportion of samples exceeding standard limits
Vegetables & Fruits	3,793	0	0.00%
Livestock products	4,384	0	0.00%
Cultivated edible plants & mushrooms	1,049	0	0.00%
Marine fishery products	8,766	0	0.00%
Inner water-cultivated fish	118	0	0.00%
Wild edible plants & mushrooms	783	2	0.26%
Inland water Fishery products	621	4	0.64%

*** 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 (11 species).


Catch landing through test fishing


Measuring and retreatment of fish body


Inspection of radioactive cesium

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

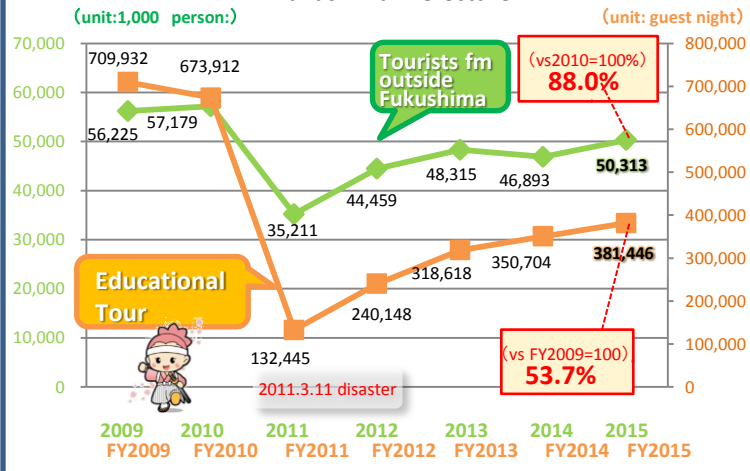
Resumption of selling through bidding

For fish and shellfish caught by trial fishing, sales by bidding resumed in Soso district from March 13, 2017 and in Iwaki district from April 3, 2017.

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.

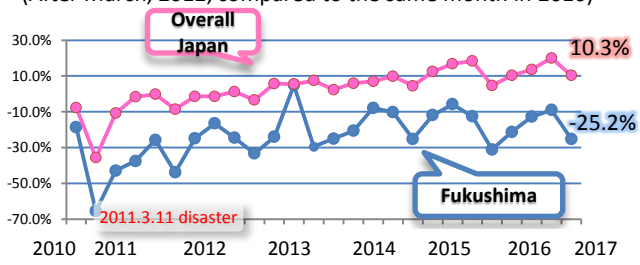
Changes of the number on tourism in the prefecture

◆Situation of Tourism (from outside Fukushima) Education tour in Fukushima Prefecture

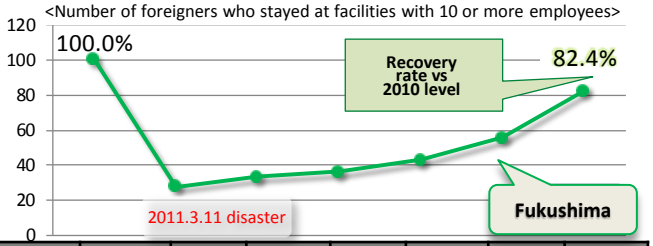


【Data】Fukushima Tourism Promotion Bureau

◆*Tourists' accommodation
Comparison of guest nights on year-to-year basis
(After March, 2012, compared to the same month in 2010)



◆Total number of guests from overseas countries
<Number of foreigners who stayed at facilities with 10 or more employees>



YEAR	2010	2011	2012	2013	2014	2015	2016
person	87,170	24,000	28,830	31,300	37,150	48,090	71,820
%	100	27.5	33.1	35.9	42.6	55.2	82.4

Tourism promotion through event & other information

2020 Tokyo Olympic and Paralympic Games Fukushima to host baseball and softball matches !

On March 17, 2017, Fukushima was chosen as a venue to host a part of baseball and softball matches at the 2020 Games will be an invaluable opportunity for Fukushima to draw attention from the world.

Project commemorating the 10th Anniversary of Oze National Park

May to October, 2017
Oze National Park

In commemoration of the 10th anniversary of Oze National Park which separated and became independent from Nikko National Park, we are implementing the "Project commemorating the 10th Anniversary of Oze National Park". There are ongoing events to commemorate the 10th anniversary in and out of Oze as well as "Campaign to go and stay in Oze" and "Let's go and visit Oze Campaign"

第69回 全国植樹祭 ふくしま 2018

Commemorative event one year ahead of the National Tree-Planting Festival

June 11, 2017 Ryozen Children's Village (Ryozen Town, Date City)

On June 11, 2017, there was a commemorative event one year ahead of the 69th National Tree-Planting Festival in Ryozen Children's Village. With 2,000 participants, they conducted the commemorative tree-planting. In addition, they gained momentum of the festival by excitement through introduction of a wooden terrestrial globe, which is a symbol of the national tree-planting festival, stage attractions such as Ryozen Daiko (Japanese drum), hands-on activities including wooden crafts making.

Fukushima Brewery Tour, Stamp Rally 2017

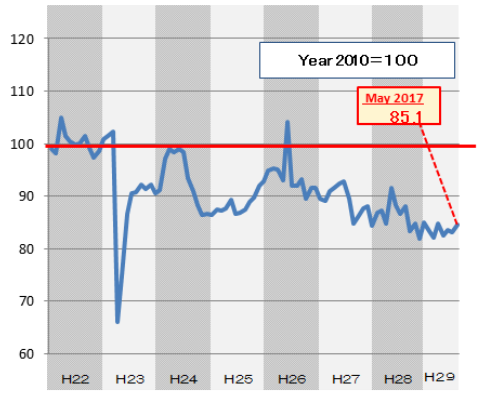
Fukushima Prefecture is a home of sake brewing, boasting the top of Japan with the largest number of gold prizes for five consecutive years at the Annual Japan Sake Awards where brewers compete quality of their sake. "Stamp rally 2017 on Fukushima tour of sake breweries" gives you an opportunity to taste its deliciousness and learn about aspirations of brewers and the history of sake brewing . If you collect stamps at participating facilities, you will get an excellent prize by lot.

After the disaster the number of offices has shown a declining trend. According to the industrial production index which indicates the production situation for the manufacturing industry, levels have not yet recovered to pre-disaster conditions. There have also been employment mismatches occurring, depending on the type of occupation.

For the sustainable development of Fukushima industries, the prefecture will provide proactive support for the continuation and resumption of small and medium sized companies, which are the core of the regional economy. In addition, there are also efforts in place to secure employment opportunities, including attracting business investment within the prefecture.

Industrial Production Index

◆ **IP index** transited around 90 from 2011 to 2016 based on the index of 100 for 2010, not showing the recovery to the pre-disaster level. Particularly, slowdown is apparent in the transportation machinery industry, electronics parts, device, machinery industry.



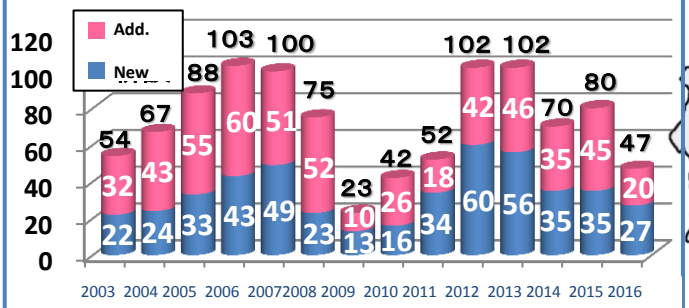
Subsidies for restoration

◆ **Fukushima business investment subsidy for revitalization of industries**

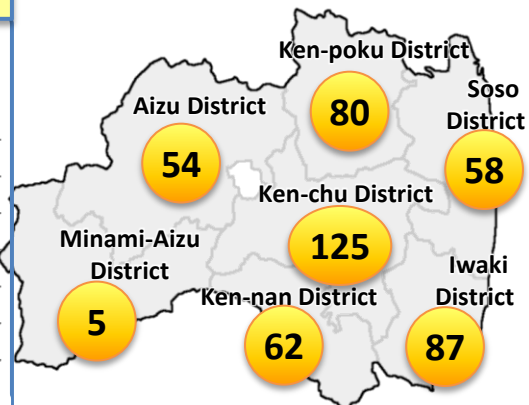
We support companies that set up new factory or additional factory inside the prefecture. Those activate business and create jobs.

Number of new and additional construction of factories

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



※Number of reported establishments based upon the Fukushima Industrial Development Ordinance.



471 companies assigned- total subsidy sum: JPY 198.9 billion as of September2016
(about USD1.8 billion ,(USD1=JPY111.00))

Added 5,923 jobs
(Projection)

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

Companies that are based in Fukushima Prefecture for business operation
Cumulative total of adopted companies by the first to the third public offerings.

164 companies assigned- total subsidy sum: JPY 81.1 billion as of September 2016
(about USD 0.73billion , (USD1=JPY111.00))

Added 2,134 jobs
(Projection)

Measures for restoration and revitalization of small and mid-sized companies as well as securing employment

Support for restoration of facilities and equipment

◆Subsidized project for restoration and maintenance of group facilities including small and mid-sized companies
Sum covering from FY2011 to FY2016: Supported 389 groups 3,837 companies with grants of JPY 116.8 billion

◆Support project for restoration and revitalization of small and mid-sized companies
Sum covering from FY2011 to FY2016: Supported 3,935 cases with JPY 8.8 billion

Employment support projects

◆Emergency Job Creation Project
Total Sum of covering FY2011-FY2016 : created **71,934 jobs**

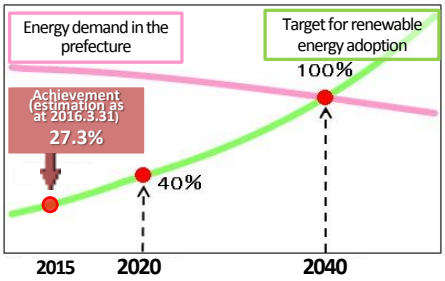
◆Fukushima Support Project for Industrial Revitalization and Employment
Total sum of covering FY2011-FY2016 : created **28,149 jobs**

Development of hubs for research & development and industrial creation Ⅰ

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

<Target for Renewable Energy Adoption>



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 adoption, and building hubs through the clustering and development of relevant industries.

Strengthen ties with NRW, Germany

The prefecture is engaging in cooperation with overseas partners to promote renewable energy in Fukushima. In particular, Fukushima Prefecture joined in a memorandum of understanding with North Rhine-Westphalia, Germany (NRW) in 2014 to promote business exchange. Building upon that, the prefecture concluded a memorandum of understanding to further deepen cooperation in the renewable energy field with the NRW Environmental Minister in January 2017, agreeing to strengthen the support systems for companies in Fukushima and NRW.

In addition, a meeting was held with state officials, including NRW Governor, to strengthen cooperation and deepen exchange between Fukushima and NRW going forward.

In the future, we hope to take advantage of this network to provide strong support for companies in Fukushima as they expand sales channels in Germany, throughout Europe, and around the world.


MOU Fukushima – NRW

MEDICA/COMPAMED

Fukushima prefecture set up a Fukushima booth in MEDICA, the world's largest medical device trade fair in order to transmit excellent technologies owned by companies in the prefecture to the rest of the world.

Renewable energy bases and projects in Fukushima prefecture

Fukushima Renewable Energy Research & Development Center

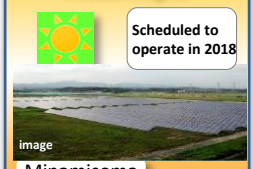

Koriyama City
Photo: AIST

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-spring binary Tsuchiyu Onsen power plant


Operating
Fukushima City
400 KW

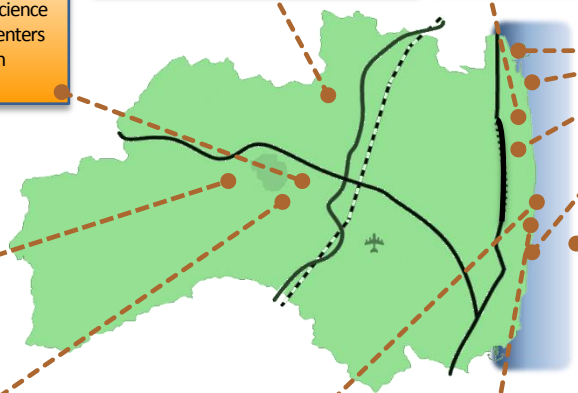
Coastal Area Mega Solar Power Project


Scheduled to operate in 2018
image
Minamisoma City
70 MW

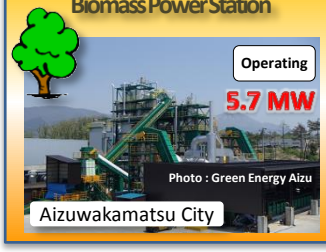
Promotion of Smart Community Concept

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.

Shinchi Town
Soma City
Namie Town
Naraha Town



Green Energy Aizu, Biomass Power Station


Operating
5.7 MW
Photo : Green Energy Aizu
Aizuwakamatsu City

Fukushima Floating Offshore Wind Farm Demonstration Project


Operating
14 MW
Photo: Fukushima Offshore Wind Consortium
Offshore of Fukushima Pref.

"Fukushima Shimpuu"
(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.

[1st stage] 2MW system operating since Nov 2013
[2nd stage] 7MW system operating since Dec 2015
[2nd stage] 5MW system installation on July 20, 2016

Koriyama Nunobiki Kogen Wind Farm


Operating
65.98 MW
Photo:J-POWER
Koriyama City

Okuma Town Furusato Revitalization Mega Solar


Operating
1.89 MW
Okuma Town

Tomioka Revitalization Mega Solar SAKURA


Operating
19.8 MW
Tomioka Town

Conclusion of MOU with the Kingdom of Thailand

On June 5, 2017, the prefectural government concluded MOU for the medical industry with the Department of Industrial Promotion, Ministry of Industry, the Kingdom of Thailand. Based on this MOU, we will consolidate joint support for SMEs and close relations in the economic field. For the future projects, we are planning to join MEDICAL FAIR THAILAND 2017 which is the largest medical device trade fair in ASEAN to be held in Bangkok, Thailand, in September this year, and invite people relevant to the Kingdom of Thailand to Medical Creation Fukushima to be held in Koriyama City in this October.

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 (promulgated and executed on May 19, 2017), and will be further promoted.

- A Fukushima Robot Test Field-International Joint Research Institutes of Industry, Academia（Robot）
- B Okuma Analysis and Research Center (Laboratory for analysis and research of radioactive substances)
- C International Decommissioning Joint Research Center, International Joint Research Building
- D Information release hub (archive)
- E Naraha Remote Technology Development Centre（mock-up Centre）
- ○ Other main projects ◆Hub for the training of engineers International Joint Research Institutes of Industry, Academia and Administration (Various research fields requiring knowledge of radiation) ◆Hub for university education Smart Eco Park ◆Energy-related industry project (formation of smart community, energy storage and efficient use with hydrogen, etc. ◆Agriculture, forestry and fishery fields project (development and demonstration of agricultural robot, promotion of CLT and hub of fishery research, etc.)

A Fukushima Robot Test Field
International Joint Research Institutes of Industry, Academia (Robot)

To conduct demonstrative tests and performance assessments of disaster response robots

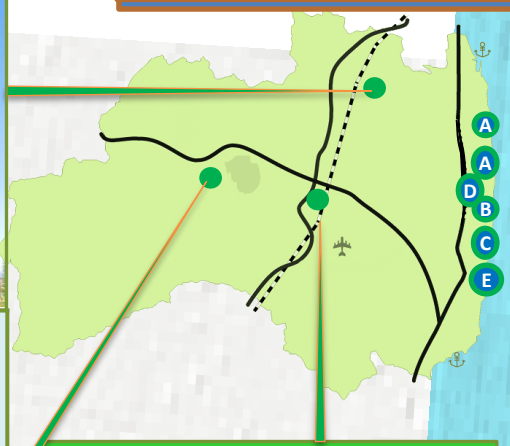
Okuma Analysis and Research Center
B (Laboratory for analysis and research of radioactive substances)

To understand properties of fuel debris and develop disposal technology

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

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)



Information release hub (archive)

D Futaba Town

To Open FY2010

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.

International Decommissioning Joint Research Center, International Joint Research Building
C

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.

Aizu University Revitalization Support Centre (Advanced ICT Laboratory)

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 Medical Device Development Support Centre

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

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

The facility is equipped with a mock-up of a part of a nuclear reactor containment vessel, and serves as a hub of decommissioning research by TEPCO

The Revitalization Plan and FY2017 budget

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

[Outlines] 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 decontami-nation, 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

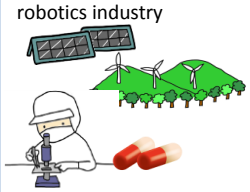
116.6 billion JPY

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

Volunteer event, Rock Corps took place.

On June 17, 2017, Governor Uchibori participated in a volunteer event, Rock Corps which was held on Haragama Obama beach, Soma City. The event upholds concept to integrate social contribution services with music through a worldwide project which gives Live tickets for well-known artists in exchange of a four-hour volunteer activities. The prefectural government have participated in it for 4 consecutive years since the first one in 2014, and showed the status of the prefecture on the road to revitalization to the rest of Japan and the world.

The Governor who took part in the cleaning activity of the beach with other 25 participants said, "All friends that worked hard today with me will join the Live event on September 2 and share excitements once again. I would like to spread the shared sympathy to encourage Fukushima across Japan." The volunteer event will be held in Fukushima Prefecture, Tokyo and Kanagawa Prefecture until Thursday, August 31. We are currently calling for participants. The celebration (Live event) will take place at Makuhari Messe in Chiba Prefecture on Saturday, September 2.

J-Village, Groundbreaking of the all-weather dome took place.

On March 25, 2017, there was a groundbreaking ceremony for the all-weather dome at J-Village which served as a hub for resolution of the accident at TEPCO Fukushima Daiichi Nuclear Power Station. This is a key facility for the redevelopment plan facilitated by the prefectural government, so we made a great leap for the reconstruction of J-Village.

Inside is covered with artificial lawn, and the building area is about 10,000 ㎡ and wide enough for one football field, This is the very first case in Japan. We are planning to start sharing the ground with a view to full operational resumption in April 2019.

Ambassadors to Japan visited the prefecture - Republic of Columbia and United Arab Emirates -

His Excellency Dr. Gabriel Deuque, Ambassador of the Republic of Columbia to Japan.

On May 10th, Ambassador Gabriel Duque of the Republic of Columbia to Japan paid a courtesy call on Governor Uchibori as part of giving a lecture at Fukushima University.

He showed a strong interest in the prefecture and expressed his desire to deepen relationships with Fukushima through, exchanges with companies and universities.

From May 18th to the 19th Ambassador Khaled Omran Sqait Sarhan Alameri of the UAE to Japan visited the prefecture to observe the progress that has been made towards revitalization in the prefecture. During his time in Fukushima he visited the Fukushima Daiichi Nuclear Power Plant and Fukushima Medical Device Development Support Centre among others. He talked about how he has become able to get to know Fukushima in a way that he had not been able to through the news alone. He also expressed a desire to build cooperative relationships in fields in which Fukushima excels.

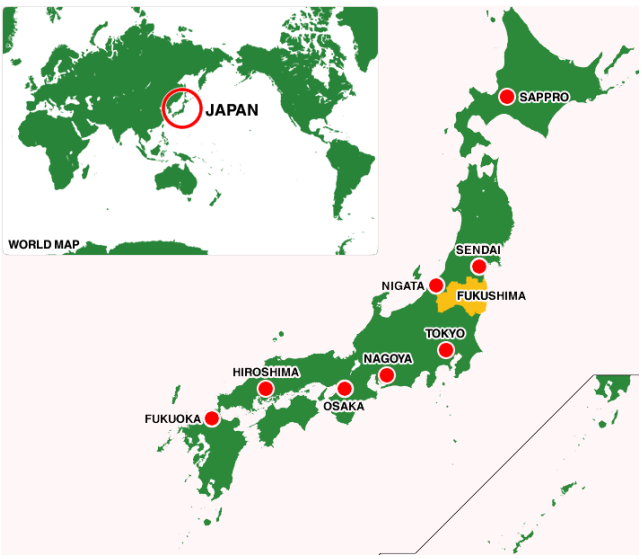
His Excellency Khaled Omran Sqait Sarhan Alameri, Ambassador of The United Arab Emirates to Japan

Fukushima Programme for North American Youths, 2017

From June 28th to July 7th, 5 Youth members from the Seattle and Honolulu Fukushima Kenjinkai in America were invited to Fukushima to take part in a programme focused on fostering youth leaders who will communicate information about Fukushima to the rest of the world and act as bridges between the Prefecture and the USA.

Through a meeting with the Governor at the main office they deepened their understanding on how the revitalization of the Prefecture is being tackled and they experienced the flavor of Fukushima, its history and culture through activities such as cherry-picking, Traditional Tea Ceremony and a visit to Tsuruga-jo Castle. And finally, they participated in cultural exchange activities with students of the same generation from Aizu Gakuho Junior High school and Iwaki Kaisei High school.

Fukushima prefecture outlines



Basic Data

- Capital : Fukushima City
- Population: 1,884,646 (July 2017)
- Area: *13,783km²
  *Evacuation designated zones: 371km²(July 2017)

Access

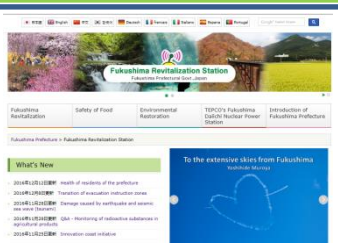
- Roughly 200km away from Tokyo
- JR Tohoku bullet train
  - ・Tokyo-Koriyama Station 80 min
  - ・Tokyo-Fukushima Station 90 min
- NEXCO Highways
  - ・Tohoku expressway
  - ・Joban expressway
  - ・ Ban-Etsu expressway
- Fukushima Airport
  - ・Fukushima Airport <->Itami(Osaka)
  - ・Fukushima Airport<->New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



diamondroutejapan.com

ふくしまから はじめよう。
Future From Fukushima.

Fukushima Prefectural Government

Address :2-16 Sugitsuma-cho, Fukushima City, Japan
Telephone : (+81) 24- 521-1111
E-mail : sougoukeikaku@pref.fukushima.lg.jp