

Fukushima: A Lasting Tragedy

Tens years on, the United States, the largest owner of nuclear power plants, still promotes nuclear power as "safe and clean energy."

By [H. Patricia Hynes](#)

Global Research, August 23, 2021

[Common Dreams](#) 21 August 2021

Region: [Asia](#)

Theme: [History](#), [Oil and Energy](#)

All Global Research articles can be read in 51 languages by activating the "Translate Website" drop down menu on the top banner of our home page (Desktop version).

Visit and follow us on Instagram at [@crg_globalresearch](#).

Then

In 2011 the Great East Japan Earthquake and ensuing tsunami devastated northeast Japan, taking the lives of more than 18,000 people and triggering one of the worst industrial accidents in history: the crippling breakdown of the Fukushima Dai'ichi nuclear power plant. Three of the plant's six reactors suffered perilous nuclear core meltdowns and hydrogen gas explosions, releasing radionuclides into the air, water and soil. More than 160,000 people were evacuated—nuclear power refugees, many of whom have lost trust in their government's pronouncements about "safe to return."

Five Years Later

Considered the most complex industrial cleanup, not even robots were able to enter the main radioactive fuel-debris areas by 2016. The regional farming and the fishing industries suffered collapse and financial ruin. Permissible levels of radiation for children were raised in a callous move to keep schools open. Debates over canceling the 2020 Tokyo Olympics ensued because of the geographic spread of radioactive pollution—an issue all but forgotten as more recent debates rose over canceling the subsequent 2021 Olympics because of Covid-19 and Japan's low vaccination rate.

Three hundred tons per day of groundwater containing large amounts of radioactive material, including cesium, strontium, iodine, and other substances, poured into the Pacific Ocean from 2010 until the Tokyo Electric Power Company (TEPCO), the plant's owner, decreased it to one-tenth that volume by 2015. On site over 1,000 mammoth storage tanks hold wastewater treated by a filter process TEPCO devised to remove more than 60 radioactive chemicals to so-called safe internationally regulated levels. Only the treatment has left 70% of the filtered wastewater still contaminated above regulatory levels. Nor can it remove tritium, a radioactive form of hydrogen.

In September 2015, ocean surges from Typhoon Eta overwhelmed the site's drainage pumps; hundreds of tons of radioactive water leaked from the reactors site and ultimately

into the ocean. What, then, of more severe typhoons, undersea earthquakes, and the reality of sea level rise for the oceanside plant? How will an onsite drainage system survive natural disasters worsened by climate change if they failed in 2015?

Now

On April 13, 2021, the Japanese government announced that TEPCO has the government's permission to release 1.38 million US tons of its filtered radioactive wastewater into the Pacific Ocean, beginning in 2023. The company states that its storage capacity will run out in two years, a claim that critics dispute. Critics also deem the treatment filtration system that TEPCO invented, the Advanced Liquid Processing System (ALPS), subpar and not capable of thorough removal of radioactive waste.

Ultimately, the discharge will rely on dilution with ocean water as the solution to radioactive pollution—in denial of the food chain phenomenon in which plankton absorb the released radioactive elements in sea water, fish eat the plankton, bigger fish eat smaller fish, and humans and marine animals eat both big and small fish.

One week after Japan's announcement on April 13 of this year, fish caught off Fukushima waters were found to contain high levels of radioactive cesium many times above permissible levels. Referring to the announcement, Takeshi Komatsu, an oyster farmer in Miyagi prefecture, north of Tokyo responded despondently about the permission for TEPCO to discharge radioactive wastewater in two years: "The (Japanese) government's decision is outrageous, I feel more helpless than angry when I think that all the efforts I've made to rebuild my life over the past decade have come to nothing," as reported by the China Daily Global.

Nearby countries that share the seas and ocean with Japan are irate and extremely critical of Japan's decision, with some planning international legal action. Professor Choi SK Kunsan of South Korea National University warned, "Through the sea's currents, it can affect fishes near the Korean Peninsula, East Asia, and even the entire world..." Japan retorts that they plan to re-filter and dilute the water before releasing it, until the contaminated water is "safe to drink." If that is the case, "Then please drink it," countered Chinese Foreign Ministry spokesman Zhao Lijian at a news briefing. "The ocean is not Japan's trash can."

An observer of this verbal chess match pointed out, with some irony, that Japan has about 100,000 dams for flood control, water supply, crop irrigation and hydroelectric power with more than enough capacity to dilute TEPCO's oversupply of radioactive wastewater to drinking water acceptability by Japan's standard. Re-filter the contaminated wastewater using ALPS and dilute it in the mammoth dams until it is "safe enough" to drink, he proposes. Then use it for the country's drinking water supply and crop irrigation. Problem solved. No angry neighbors.

With the back and forth about "permissible" levels of exposure in drinking water, the ocean and so on, let us keep this fact in mind. Decades of research have shown that there is no safe level of radiation, according to the National Academy of Sciences. Any exposure to radiation increases an individual's risk of developing cancer.

The two major supporters for Japan's decision to contaminate the Pacific Ocean with its oversupply of radioactive wastewater are the International Atomic Energy Agency (IAEA) and the United States. The IAEA's mission is "to promote the safe, secure and peaceful use

of nuclear technologies,” in other words, to sustain the illusion—despite Three Mile Island, Chernobyl, Fukushima and concern about Iran—that nuclear power can be safe and secure and its waste never at risk of being processed for nuclear weapons. The United States, the largest owner of nuclear power plants, promotes nuclear power as “safe and clean energy,” *a wolf in sheep’s clothing*.

From Common Dreams: Our work is licensed under Creative Commons (CC BY-NC-ND 3.0). Feel free to republish and share widely.

*

Note to readers: Please click the share buttons above or below. Follow us on Instagram, @crg_globalresearch. Forward this article to your email lists. Crosspost on your blog site, internet forums. etc.

[H. Patricia Hynes](#) is a retired Professor of Environmental Health from Boston University School of Public Health and current Chair of the Board of the [Traprock Center for Peace and Justice](#). She has written and edited seven books, among them “[The Recurring Silent Spring](#).” She writes and speaks on issues of war and militarism with an emphasis on women, the environment, and public health.

Featured image: Yuji Onuma had come up with the slogan for the gate that originally hung above the entrance to his home village of Futaba, north of the reactors at Fukushima. It said, “Atomic Power: Energy for a bright future.” After the disaster, he went back, with a new, handwritten correction in red, “Atomic Power: Energy for a DESTRUCTIVE future.” Image courtesy of Yuji Onuma

The original source of this article is [Common Dreams](#)
Copyright © [H. Patricia Hynes](#), [Common Dreams](#), 2021

[Comment on Global Research Articles on our Facebook page](#)

[Become a Member of Global Research](#)

Articles by: **[H. Patricia Hynes](#)**

Disclaimer: The contents of this article are of sole responsibility of the author(s). The Centre for Research on Globalization will not be responsible for any inaccurate or incorrect statement in this article. The Centre of Research on Globalization grants permission to cross-post Global Research articles on community internet sites as long the source and copyright are acknowledged together with a hyperlink to the original Global Research article. For publication of Global Research articles in print or other forms including commercial internet sites, contact: publications@globalresearch.ca

www.globalresearch.ca contains copyrighted material the use of which has not always been specifically authorized by the copyright owner. We are making such material available to our readers under the provisions of "fair use" in an effort to advance a better understanding of political, economic and social issues. The material on this site is distributed without profit to those who have expressed a prior interest in receiving it for research and educational purposes. If you wish to use copyrighted material for purposes other than "fair use" you must request permission from the copyright owner.

For media inquiries: publications@globalresearch.ca