

Fukushima Nuclear Power Plant

**Independent Investigation Commission on the
Fukushima Nuclear Accident**

The Fukushima Nuclear Power Plant Disaster and the Future of Renewable Energy Naoto Kan, 2018-01-15 In a speech delivered in Japanese at Cornell University, Naoto Kan describes the harrowing days after a cataclysmic earthquake and tsunami led to the meltdown of three reactors at the Fukushima Daiichi Nuclear Power Plant. In vivid language, he tells how he struggled with the possibility that tens of millions of people would need to be evacuated. Cornell Global Perspectives is an imprint of Cornell University's Mario Einaudi Center for International Studies. The works examine critical global challenges, often from an interdisciplinary perspective, and are intended for a non-specialist audience. The Distinguished Speaker series presents edited transcripts of talks delivered at Cornell, both in the original language and in translation.

The Fukushima Daiichi Nuclear Power Station Disaster

The Independent Investigation on the Fukushima Nuclear Accident, 2014-03-05 When the Nuclear Safety Commission in Japan reviewed safety-design guidelines for nuclear plants in 1990, the regulatory agency explicitly ruled out the need to consider prolonged AC power loss. In other words, nothing like the catastrophe at the Fukushima Daiichi Nuclear Power Station was possible—no tsunami of 45 feet could swamp a nuclear power station and knock out its emergency systems. No blackout could last for days. No triple meltdown could occur. Nothing like this could ever happen. Until it did—over the course of a week in March 2011. In this volume and in gripping detail, the Independent Investigation Commission on the Fukushima Nuclear Accident, a civilian-led group, presents a thorough and powerful account of what happened within hours and days after this nuclear disaster, the second worst in history. It documents the findings of a working group of more than thirty people, including natural scientists and engineers, social scientists and researchers, business people, lawyers, and journalists, who

researched this crisis involving multiple simultaneous dangers. They conducted over 300 investigative interviews to collect testimony from relevant individuals. The responsibility of this committee was to act as an external ombudsman, summarizing its conclusions in the form of an original report, published in Japanese in February 2012. This has now been substantially rewritten and revised for this English-language edition. The work reveals the truth behind the tragic saga of the multiple catastrophic accidents at the Fukushima Daiichi Nuclear Power Station. It serves as a valuable and essential historical reference, which will help to inform and guide future nuclear safety and policy in both Japan and internationally.

My Nuclear Nightmare Naoto Kan, 2017-01-10 Naoto Kan, who was prime minister of Japan when the March 2011 Fukushima nuclear disaster began, has become a ubiquitous and compelling voice for the global antinuclear movement. Kan compared the potential worst-case devastation that could be caused by a nuclear power plant meltdown as tantamount only to 'a great world war. Nothing else has the same impact.' Japan escaped such a dire fate during the Fukushima disaster, said Kan, only 'due to luck.' Even so, Kan had to make some steely-nerved decisions that necessitated putting all emotion aside. In a now famous phone call from Tepco, when the company asked to pull all their personnel from the out-of-control Fukushima site for their own safety, Kan told them no. The workforce must stay. The few would need to make the sacrifice to save the many. Kan knew that abandoning the Fukushima Daiichi site would cause radiation levels in the surrounding environment to soar. His insistence that the Tepco workforce remain at Fukushima was perhaps one of the most unsung moments of heroism in the whole sorry saga.—The Ecologist On March 11, 2011, a massive undersea earthquake off Japan's coast triggered devastating tsunami waves that in turn caused meltdowns at three reactors in the Fukushima Daiichi Nuclear Power Plant. Ranked with Chernobyl as the worst

nuclear disaster in history, Fukushima will have lasting consequences for generations. Until 3.11, Japan's Prime Minister, Naoto Kan, had supported the use of nuclear power. His position would undergo a radical change, however, as Kan watched the nuclear disaster at the Fukushima No. 1 Power Plant unfold and came to understand the potential for the physical, economic, and political destruction of Japan. In *My Nuclear Nightmare*, Kan offers a fascinating day-by-day account of his actions in the harrowing week after the earthquake struck. He records the anguished decisions he had to make as the scale of destruction became clear and the threat of nuclear catastrophe loomed ever larger—decisions made on the basis of information that was often unreliable. For example, frustrated by the lack of clarity from the executives at Tepco, the company that owned the power plant, Kan decided to visit Fukushima himself, despite the risks, so he could talk to the plant's manager and find out what was really happening on the ground. As he details, a combination of extremely good fortune and hard work just barely prevented a total meltdown of all of Fukushima's reactor units, which would have necessitated the evacuation of the thirty million residents of the greater Tokyo metropolitan area. In the book, first published in Japan in 2012, Kan also explains his opposition to nuclear power: I came to understand that a nuclear accident carried with it a risk so large that it could lead to the collapse of a country. When Kan was pressured by the opposition to step down as prime minister in August 2011, he agreed to do so only after legislation had been passed to encourage investments in alternative energy. As both a document of crisis management during an almost unimaginable disaster and a cogent argument about the dangers of nuclear power, *My Nuclear Nightmare* is essential reading.

Lessons Learned from the Fukushima Nuclear Accident for Improving Safety of U.S. Nuclear Plants National Research Council (U.S.). Committee on Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of

U.S. Nuclear Plants, National Research Council, Nuclear and Radiation Studies Board, Division on Earth and Life Studies, 2014-10-29 The March 11, 2011, Great East Japan Earthquake and tsunami sparked a humanitarian disaster in northeastern Japan. They were responsible for more than 15,900 deaths and 2,600 missing persons as well as physical infrastructure damages exceeding \$200 billion. The earthquake and tsunami also initiated a severe nuclear accident at the Fukushima Daiichi Nuclear Power Station. Three of the six reactors at the plant sustained severe core damage and released hydrogen and radioactive materials. Explosion of the released hydrogen damaged three reactor buildings and impeded onsite emergency response efforts. The accident prompted widespread evacuations of local populations, large economic losses, and the eventual shutdown of all nuclear power plants in Japan. Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants is a study of the Fukushima Daiichi accident. This report examines the causes of the crisis, the performance of safety systems at the plant, and the responses of its operators following the earthquake and tsunami. The report then considers the lessons that can be learned and their implications for U.S. safety and storage of spent nuclear fuel and high-level waste, commercial nuclear reactor safety and security regulations, and design improvements. Lessons Learned makes recommendations to improve plant systems, resources, and operator training to enable effective ad hoc responses to severe accidents. This report's recommendations to incorporate modern risk concepts into safety regulations and improve the nuclear safety culture will help the industry prepare for events that could challenge the design of plant structures and lead to a loss of critical safety functions. In providing a broad-scope, high-level examination of the accident, Lessons Learned is meant to complement earlier evaluations by industry and regulators. This in-depth review will be an essential resource for the nuclear

power industry, policy makers, and anyone interested in the state of U.S. preparedness and response in the face of crisis situations.

Fukushima David Lochbaum, Edwin Lyman, 2015-02-10 “A gripping, suspenseful page-turner” (Kirkus Reviews) with a “fast-paced, detailed narrative that moves like a thriller” (International Business Times), Fukushima teams two leading experts from the Union of Concerned Scientists, David Lochbaum and Edwin Lyman, with award-winning journalist Susan Q. Stranahan to give us the first definitive account of the 2011 disaster that led to the worst nuclear catastrophe since Chernobyl. Four years have passed since the day the world watched in horror as an earthquake large enough to shift the Earth's axis by several inches sent a massive tsunami toward the Japanese coast and Fukushima Daiichi nuclear power plant, causing the reactors' safety systems to fail and explosions to reduce concrete and steel buildings to rubble. Even as the consequences of the 2011 disaster continue to exact their terrible price on the people of Japan and on the world, Fukushima addresses the grim questions at the heart of the nuclear debate: could a similar catastrophe happen again, and—most important of all—how can such a crisis be averted?

Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants, 2016-05-06 The U.S. Congress asked the National Academy of Sciences to conduct a technical study on lessons learned from the Fukushima Daiichi nuclear accident for improving safety and security of commercial nuclear power plants in the United States. This study was carried out in two phases: Phase 1, issued in 2014, focused on the causes of the Fukushima Daiichi accident and safety-related lessons learned for improving

nuclear plant systems, operations, and regulations exclusive of spent fuel storage. This Phase 2 report focuses on three issues: (1) lessons learned from the accident for nuclear plant security, (2) lessons learned for spent fuel storage, and (3) reevaluation of conclusions from previous Academies studies on spent fuel storage.

Nuclear Disaster at Fukushima Daiichi Richard

Hindmarsh, 2013-08-21 *Nuclear Disaster at Fukushima Daiichi* is a timely and groundbreaking account of the disturbing landscape of the Fukushima Daiichi nuclear meltdown amidst an earthquake and tsunami on Japan's northeast coastline on March 11, 2011. It provides riveting insights into the social and political landscape of nuclear power development in Japan, which significantly contributed to the disaster; the flawed disaster management options taken; and the political, technical, and social reactions as the accident unfolded. In doing so, it critically reflects on the implications for managing future nuclear disasters, for effective and responsible regulation and good governance of controversial science and technology, or technoscience, and for the future of nuclear power itself, both in Japan and internationally. Informed by a leading cast of international scholars in science, technology and society studies, the book is at the forefront of discussing the Fukushima Daiichi disaster at the intersection of social, environmental and energy security and good governance when such issues dominate global agendas for sustainable futures. Its powerful critique of the risks and hazards of nuclear energy alongside poor disaster management is an important counterbalance to the plans for nuclear build as central to sustainable energy in the face of climate change, increasing extreme weather events and environmental problems, and diminishing fossil fuel, peak oil, and rising electricity costs. Adding significantly to the consideration and debate of these critical issues, the book will interest academics, policy-makers, energy pundits, public interest organizations, citizens and

students engaged variously with Fukushima itself, disaster management, political science, environmental/energy policy and risk, public health, sociology, public participation, civil society activism, new media, sustainability, and technology governance.

Nuclear Meltdown, USA Chanan Tigay, 2012-03-11 Sitting near four significant fault lines on the coastline of California, Diablo Canyon is just one of 65 nuclear power plants in the United States. After the nuclear meltdown in Fukushima, Japan, Americans are now asking, Could it happen here? This e-book original, based on an in-depth investigation commissioned exclusively for Prevention magazine by the award-winning photojournalist team of Chanan Tigay and Colin Finlay, explores the risks--to our planet and ourselves--of the plant and its impact on the people who live and work in the happiest place in America.

The Fukushima Daiichi Nuclear Power Station Disaster Independent Investigation Commission on the Fukushima Nuclear Accident, 2014-01-01 When the Nuclear Safety Commission in Japan reviewed safety-design guidelines for nuclear plants in 1990, the regulatory agency explicitly ruled out the need to consider prolonged AC power loss. In other words, nothing like the catastrophe at the Fukushima Daiichi Nuclear Power Station was possible--no tsunami of 45 feet could swamp a nuclear power station and knock out its emergency systems. No blackout could last for days. No triple meltdown could occur. Nothing like this could ever happen. Until it did--over the course of a week in March 2011. In this volume and in gripping detail, the Independent Investigation Commission on the Fukushima Nuclear Accident, a civilian-led group, presents a thorough and powerful account of what happened within hours and days after this nuclear disaster, the second worst in history. It documents the findings of a working group of more than thirty people, including natural scientists and engineers, social scientists and researchers, business people, lawyers, and journalists, who researched this crisis involving multiple simultaneous dangers.

They conducted over 300 investigative interviews to collect testimony from relevant individuals. The responsibility of this committee was to act as an external ombudsman, summarizing its conclusions in the form of an original report, published in Japanese in February 2012. This has now been substantially rewritten and revised for this English-language edition. The work reveals the truth behind the tragic saga of the multiple catastrophic accidents at the Fukushima Daiichi Nuclear Power Station. It serves as a valuable and essential historical reference, which will help to inform and guide future nuclear safety and policy in both Japan and internationally.

Legacies of Fukushima Kyle Cleveland, Scott Gabriel Knowles, Ryuma Shineha, 2021-04-02 It was an unlikely convergence of events. A 9.0 magnitude earthquake, the largest in Japanese memory and the fourth largest recorded in world history; a tsunami that peaked at forty meters, devastating the seaboard of northeastern Japan; three reactors in meltdown at the Daiichi nuclear power plant in Fukushima; experts in disarray and suffering victims young and old. It was, as well, an unlikely convergence of legacies. Submerged traumas resurfaced and communities long accustomed to living quietly with hazards suddenly were heard. New legacies of disaster were handed down, unfolding slowly for generations to come. The defining disaster of contemporary Japanese history still goes by many different names: The Great East Japan Earthquake; the 2011 Tōhoku Earthquake and Tsunami; the Fukushima Daiichi Nuclear Disaster; the 3.11 Triple Disaster. Each name represents a struggle to place the disaster on a map and fix a date to a timeline. But within each of these names hides a combination of disasters and legacies that converged on March 11, 2011, before veering away in all directions: to the past, to the future, across a nation, and around the world. Which pathways from the past will continue, which pathways ended with 3.11, and how are these legacies entangled? Legacies of Fukushima places these

questions front and center. The authors collected here contextualize 3.11 as a disaster with a long period of premonition and an uncertain future. The volume employs a critical disaster studies approach, and the authors are drawn from the realms of journalism and academia, science policy and citizen science, activism and governance—and they come from East Asia, America, and Europe. 3.11 is a Japanese legacy with global impact, and the authors and their methods reflect this diversity of experience. Contributors: Sean Bonner, Azby Brown, Kyle Cleveland, Martin Fackler, Robert Jacobs, Paul Jobin, Kohta Juraku, Tatsuhiro Kamisato, Jeff Kingston, William J. Kinsella, Scott Gabriel Knowles, Robert Jay Lifton, Luis Felipe R. Murillo, Başak Saraç-Lesavre, Sonja D. Schmid, Ryuma Shineha, James Simms, Tatsujiro Suzuki, Ekou Yagi.

The 2011 Fukushima Nuclear Power Plant Accident Yotaro Hatamura, Seiji Abe, Masao Fuchigami, Naoto Kasahara, Kenji Iino, 2014-11-28 In March 2011 the Fukushima nuclear power plant (NPP) in Japan was hit by an earthquake and subsequent tsunami which resulted in the release of significant amounts of radioactive material. The incident led to the suspension of nuclear programmes by a number of countries. This book provides a definitive account of the accident. Outlines the main sequence of events of the 2011 Fukushima nuclear power plant accident, considers the responses of central and local government, and evaluates the response of the plant owner TEPCO. Describes and assesses the effectiveness of the evacuation process and subsequent decontamination of the site and local area. Offers recommendations for improving the safe design and operation of nuclear power plants and considers the future of the Fukushima plant and nuclear power generation in Japan.

Ichi-F Kazuto Tatsuta, 2017 On March 11, 2011, Japan suffered the largest earthquake in its modern history. The 9.0-magnitude quake threw up a devastating tsunami that wiped away entire towns, and caused, in the months afterward, three

nuclear meltdowns at the Fukushima Daiichi Nuclear Plant. Altogether, it was the costliest natural disaster in human history. This is not the story of that disaster. This is the story of a man who took a job. Kazuto Tatsuta was an amateur artist who signed onto the dangerous task of cleaning up the Fukushima Daiichi Nuclear Plant, which the workers came to call Ichi-F. This is the story of that challenging work, of the trials faced by the local citizens, and of the unique camaraderie that built up between the mostly blue-collar workers who had to face the devious and invisible threat of radiation on a daily basis. After six months, Tatsuta's body had absorbed the maximum annual dose of radiation allowed by regulations, and he was forced to take a break from the work crew, giving him the time to create this unprecedented, unauthorized, award-winning view of daily life at Fukushima Daiichi.

A Study of the Fukushima Daiichi Nuclear Accident

Process Michio Ishikawa, 2015-08-12 Written by an expert in the field, this book is perfect for those who would like to know what happened at the Fukushima Daiichi Nuclear Power Plant. Part 1 of the book studies how core melts occurred in Fukushima Daiichi units 1, 2, and 3, respectively, based on evidence from the Three-Mile Island core melt accident and fuel behavior experiments performed in the 1970s under the cooperation between the United States, Germany, and Japan. This information explains the accident processes without contradicting data from Fukushima, which was published in the TEPCO report. The hydrogen explosions in units 1, 3, and 4 are also explained logically in conjunction with the above core melt process. Part 2 clarifies how the background radiation level of the site doubled: The first rise was just a leak from small openings in units 1 and 3 associated with fire-pump connection work. The second rise led to direct radioactive material release from unit 2. Evacuation dose adequacy and its timing are discussed with reference to the accident process, and the necessity for embankments surrounding

nuclear power plants to increase protection against natural disasters is also discussed. New proposals for safety design and emergency preparedness are suggested based on lessons learned from the accident as well as from new experiences. Finally, a concept for decommissioning the Fukushima site and a recovery plan are introduced.

Fukushima: Dispossession or Denuclearization?

Nadesan/Boys/McKillop/Wilcox (Editors), 2014-09-28 The Fukushima nuclear power plant explosions and the Hiroshima/Nagasaki bombings are intimately connected events, bound together across time by a nuclear will to power that holds little regard for life. In *Fukushima: Dispossession or Denuclearization?* contributors document and explore diverse dispossession effects stemming from this nuclear will to power, including market distortions, radiation damage to personal property, wrecked livelihoods, and transgenerational mutations potentially eroding human health and happiness. Liberal democratic capitalism is itself disclosed as vulnerable to the corrupting influences of the nuclear will to power. Contributors contend that denuclearization stands as the only viable path forward capable of freeing humans from the catastrophic risks engineered into global nuclear networks. They conclude that the choice of dispossession or denuclearization through the pursuit of alternative technologies will determine human survival across the twenty-first century.

Fukushima and Beyond Christopher Hubbard, 2016-04-22

The catalyst for this study was the Fukushima-Daiichi major nuclear accident of 11 March 2011. In this event, a severe earthquake and 15 metre tsunami caused serious damage and equipment failures at Japan's Fukushima 1 Nuclear Power Plant which were judged by the International Atomic Energy Agency to be equally as serious as the Soviet Chernobyl nuclear disaster of 1986. Against a background of nuclear hesitancy and reassessment, the prospect of including or excluding nuclear

power in a low-carbon twenty-first century world is now increasingly critical. It is in this emerging scenario and context that this book presents a full suite of historical, contemporary and projected data. Its use of complementary and comparative country-based case studies provides ample opportunity for developing strongly illustrative analysis of policy effectiveness in diverse polities and markets. In this way, it combines clear, comprehensive and rigorously science-based evidence, analysis and interpretation of data, all leading to conclusions and policy recommendations. Furthermore, it builds an understanding of the complexities and many challenges posed by the nuclear power option.

Agricultural Implications of the Fukushima Nuclear Accident (III) Tomoko M. Nakanishi, Martin O'Brien, Keitaro Tanoi, 2019-01-30 This open access book presents the findings from on-site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident in March 2011. This third volume in the series reports on studies undertaken at contaminated sites such as farmland, forests, and marine and freshwater environments, with a particular focus on livestock, wild plants and mushrooms, crops, and marine products in those environments. It also provides additional data collected in the subsequent years to show how the radioactivity levels in agricultural products and their growing environments have changed with time and the route by which radioactive materials entered agricultural products as well as their movement between different components (e.g., soil, water, and trees) within an environmental system (e.g., forests). The book covers various topics, including radioactivity testing of food products; decontamination trials for rice and livestock production; the state of contamination in, trees, mushrooms, and timber; the dynamics of radioactivity distribution in paddy fields and upland forests; damage incurred by the forestry and fishery industries; and the

change in consumers' attitudes. Chapter 19 introduces a real-time radioisotope imaging system, a pioneering technique to visualize the movement of cesium in soil and in plants. This is the only book to provide systematic data on the actual change of radioactivity, and as such is of great value to all researchers who wish to understand the effect of radioactive fallout on agriculture. In addition, it helps the general public to better understand the issues of radio-contamination in the environment. The project is ongoing; the research groups from the Graduate School of Agricultural and Life Sciences of The University of Tokyo continue their work in the field to further evaluate the long-term effects of the Fukushima accident.

Station Blackout Charles A. Casto, 2018-12-04 The nuclear safety expert shares a gripping, blow-by-blow account of how he led the response to the 2011 nuclear disaster in Fukushima, Japan. On March 11, 2011, fifty minutes after a magnitude 9.0 earthquake hit eastern Japan, a forty-five-foot high tsunami engulfed the nuclear power plant known as Fukushima Daiichi, knocking out electrical power and all the reactors' safety systems. Three reactor cores experienced meltdowns in the first three days, leading to an unimaginable nuclear disaster. The Tokyo Electric Power Company called Dr. Chuck Casto for help. In *Station Blackout*, Casto, the foremost authority on responding to nuclear disasters, shares his first-hand account of how he led the collaborative team of Japanese and American experts who faced the challenges of Fukushima. A lifetime of working in the nuclear industry prepared him to manage an extreme crisis, lessons that apply to any crisis situation.

Nuclear Tsunami Richard Krooth, Morris Edelson, Hiroshi Fukurai, 2015-02-10 This book begins with the analysis of America's post-war intelligence operations, propaganda campaigns, and strategic psychological warfare in Japan. Banking on nuclear safety myths, Japan promoted an aggressive policy of locating and building nuclear power plants in depopulated areas

suffering from a significant decline of local industries and economies. The Fukushima nuclear disaster substantiated that U.S. propaganda programs left a long lasting legacy in Japan and beyond and created the futile ground for the future nuclear disaster. The book reveals Japan's tripartite organization of the dominating state, media-monopoly, and nuclear-plant oligarchy advancing nuclear proliferation. It details America's unprecedented pro-nuclear propaganda campaigns; Japan's secret ambitions to develop its own nuclear bombs; U.S. dumping of reprocessed plutonium on Japan; and the joint U.S.-Nippon propaganda campaigns for safe nuclear-power and the current "safe-nuclear particles" myths. The study shows how the bankruptcy of the central state has led to increased burdens on the population in post-nuclear tsunami era, and the ensuing dangerous ionization of the population now reaching into the future.

Meltdown Yoichi Funabashi, 2019-01-29 The human drama, and long-term lessons, of the Fukushima nuclear disaster The Fukushima nuclear disaster in March 2011 presented an enormous challenge even to Japan, one of the world's most advanced and organized countries. Failures at all levels—of both the government and the private sector—worsened the human and economic impact of the disaster and ensured that the consequences would continue for many years to come. Based on interviews with more than 300 government officials, power plant operators, and military personnel during the years since the disaster, *Meltdown* is a meticulous recounting and analysis of the human stories behind the response to the Fukushima disaster. While the people battling to deal with the crisis at the site of the power plant were risking their lives, the government at the highest levels in Tokyo was in disarray and the utility company that operated the plants seemed focused more on power struggles with the government than on dealing with the crisis. The author, one of Japan's most eminent journalists, provides an unrivaled

chronological account of the immediate two weeks of human struggle to contain man-made technology that was overwhelmed by nature. Yoichi Funabashi gives insights into why Japan's decisionmaking process failed almost as dramatically as had the Fukushima nuclear reactors, which went into meltdown following a major tsunami. Funabashi uses the Fukushima experience to draw lessons on leadership, governance, disaster resilience, and crisis management—lessons that have universal application and pertinence for an increasingly technology-driven and interconnected global society.

The Fukushima Effect Richard Hindmarsh, Rebecca Priestley, 2015-12-07 The Fukushima Effect offers a range of scholarly perspectives on the international effect of the Fukushima Daiichi nuclear meltdown four years out from the disaster. Grounded in the field of science, technology and society (STS) studies, a leading cast of international scholars from the Asia-Pacific, Europe, and the United States examine the extent and scope of the Fukushima effect. The authors each focus on one country or group of countries, and pay particular attention to national histories, debates and policy responses on nuclear power development covering such topics as safety of nuclear energy, radiation risk, nuclear waste management, development of nuclear energy, anti-nuclear protest movements, nuclear power representations, and media representations of the effect. The countries featured include well established 'nuclear nations', emergent nuclear nations and non-nuclear nations to offer a range of contrasting perspectives. This volume will add significantly to the ongoing international debate on the Fukushima disaster and will interest academics, policy-makers, energy pundits, public interest organizations, citizens and students engaged variously with the Fukushima disaster itself, disaster management, political science, environmental/energy policy and risk, public health, sociology, public participation, civil society activism, new media, sustainability, and technology

governance.

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