Inviting Applications: Proposals on Expertise and Technology Applicable to Decommissioning of Fukushima Daiichi through Open Innovation Platform

August 25, 2016

TEPCO

Tokyo Electric Power Company Holdings, Incorporated

Utilization of knowledge from Japan and abroad through website for technology proposals

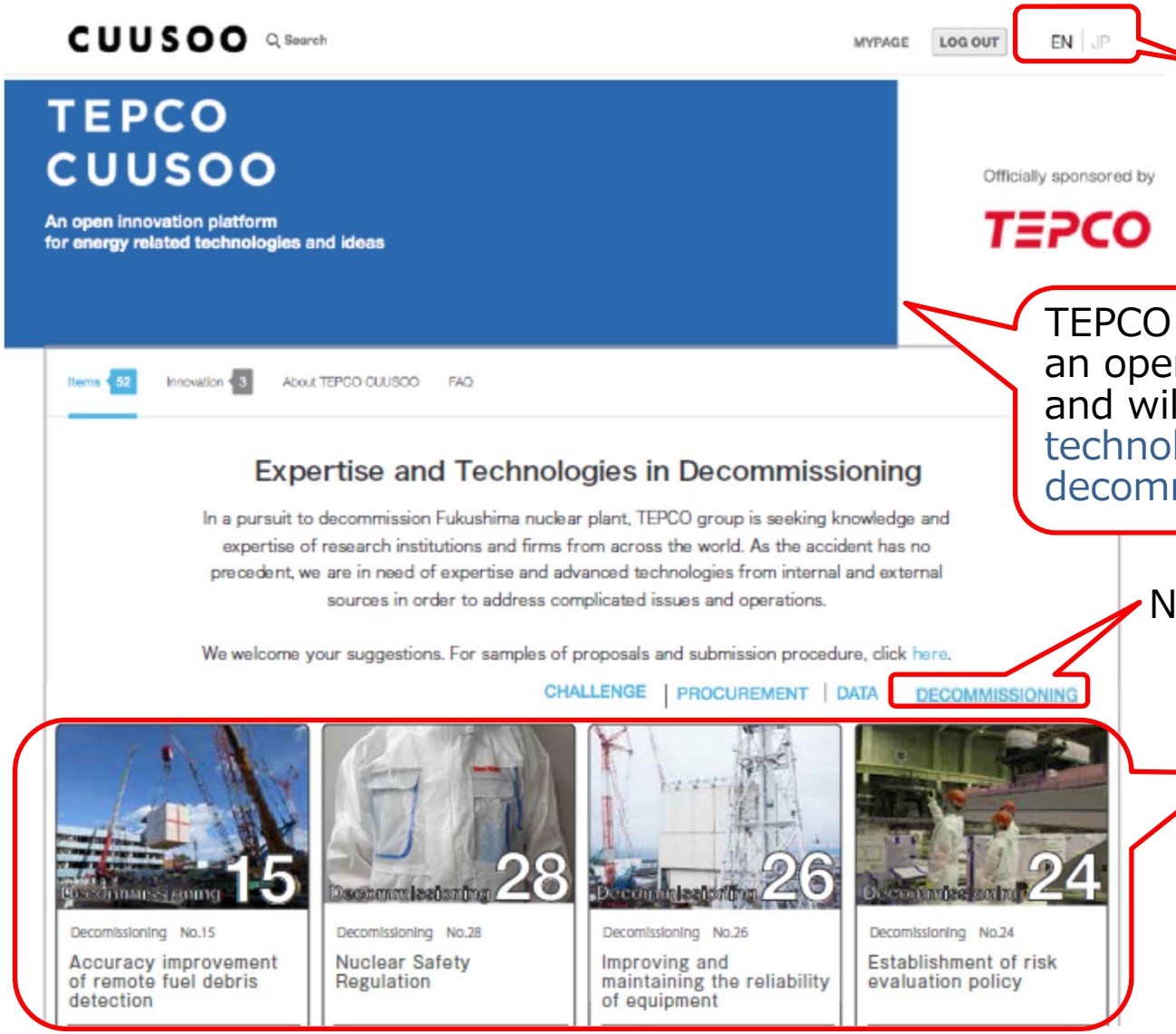
TEPCO

- Purpose and Background: Utilization of wisdom from Japan and abroad
  - To proceed with decommissioning Fukushima Daiichi Nuclear Power station efficiently and effectively, it is important to gather and utilize wisdom from Japan and abroad including full utilization of knowledge and experiences from decommissioning abroad. (Abstract from Medium-to Long-term Roadmap)
- Background: Current status and issues
  - Since the Great Earthquake disaster, TEPCO Group has been introducing technology from Japan and abroad through study findings conducted on a national project level, proposals from manufacturers and organizations in Japan and abroad having cooperative relationships with our company.
  - However, there are limitations in the scope of the existing nuclear power industry and technology surveys through institutions concerned, and TEPCO Group therefore might not have sufficiently identified technology in Japan and abroad that would be potentially useful for decommissioning of Fukushima Daiichi.
- Action items: New efforts to gather knowledge from Japan and abroad
  - To gather wisdom from Japan and abroad, TEPCO Holdings will widely invite proposals on applicable expertise and technology by proactively disclosing the needs in decommissioning Fukushima Daiichi through open innovation platform (Proposals on 33 items in 7 areas will be invited at the start of operations).
- Schedule
  - Start operations on August 25, 2016

Issues at Fukushima Daiichi (Example)

33 items on issues in 7 areas (contaminated water countermeasures, pool fuel removal, fuel debris removal, waste management, site management, external communication and other technological challenges) are extracted. (The number of items or areas may change depending on situation in the future)

Title	Challenge and Current Status	Inviting application	Schedule
Reduction of quantity of waste generated and storage management	• It is important to reduce the generation of solid waste by ensuring thorough control on bringing new material from outside the site and by promoting re-use within the premises, while also paying attention to the volume reduction effect or the impact on disposal resulting from generation of secondary waste. • This is an issue at the stage when the policy is formulated and overseas knowledge regarding re-use within the premises and reduction of volume of waste generated needs to be leveraged.	Research/ Benchmark/ Case study Consultation/ Review	FY2015 Development of Storage Management Plan (Medium- to Long-term Roadmap) FY2017 Development of Basic Concept of Waste Disposal(Medium- to long-term Roadmap)
Volume reduction of waste in dismantling and removing underground water storage	• Study of dismantling and removing underground water storage #1, 2 and 3, which leaked in the past, is started from 2016. • Along with the dismantling, a large amount of storage frame made of plastic will be generated as radioactive waste, which are contaminated by RO concentrated brine water. • Measures are necessary to effectively limit amount of waste by volume reduction process.	Technical proposal	First half of 2017
Dose reduction for workers with remote monitoring	• In some overseas sites, remote work monitoring system is deployed in which a work is overseen and work order is given from a remote monitoring room. Individual worker dose can be monitored as well. • Dose reduction for RP personnel would be possible by introducing remote monitoring system for workers.	Research/ Benchmark/ Case study	(None)



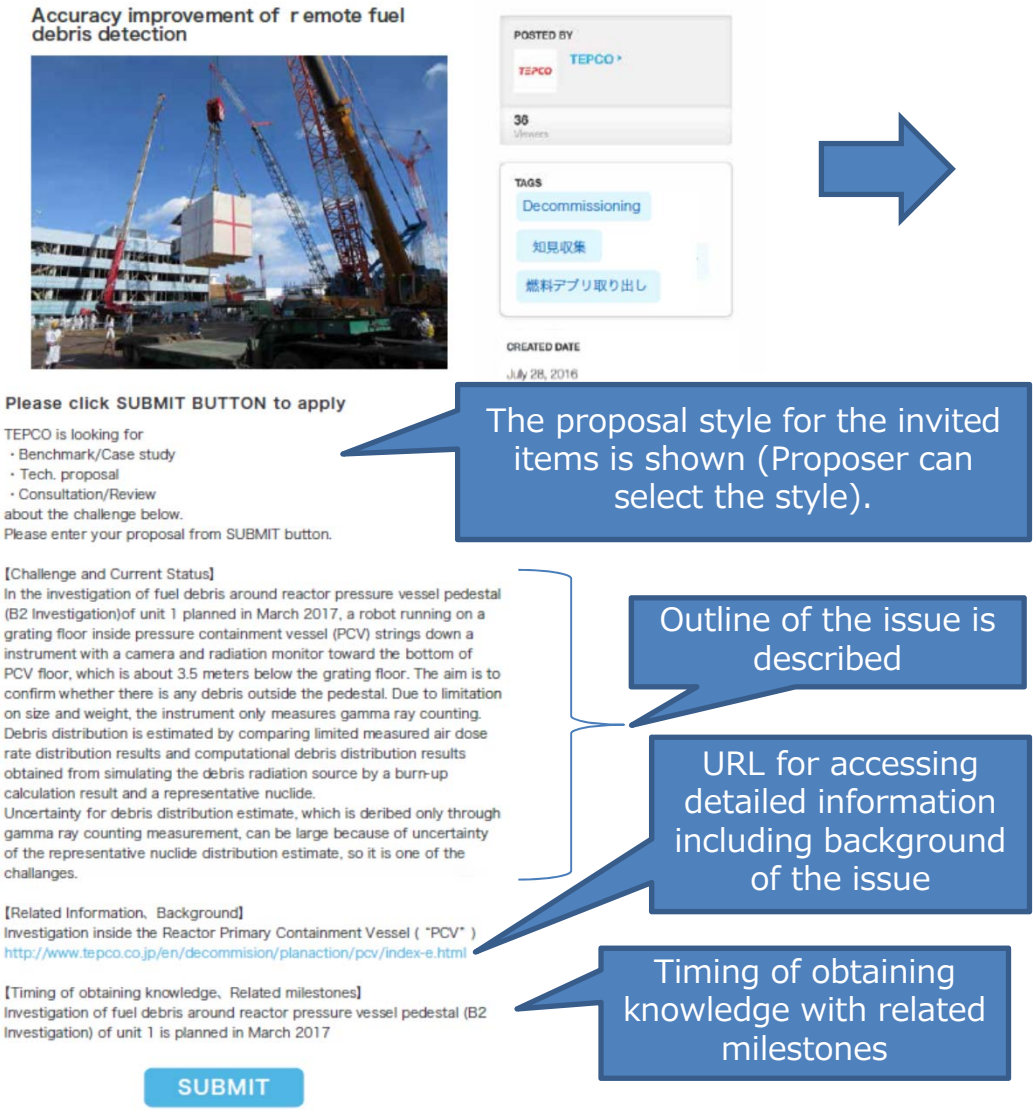
Invitation of proposals on expertise and technology from Japan and abroad in Japanese and English

TEPCO has already established an open innovation platform, and will utilize it for the technology related to decommissioning.

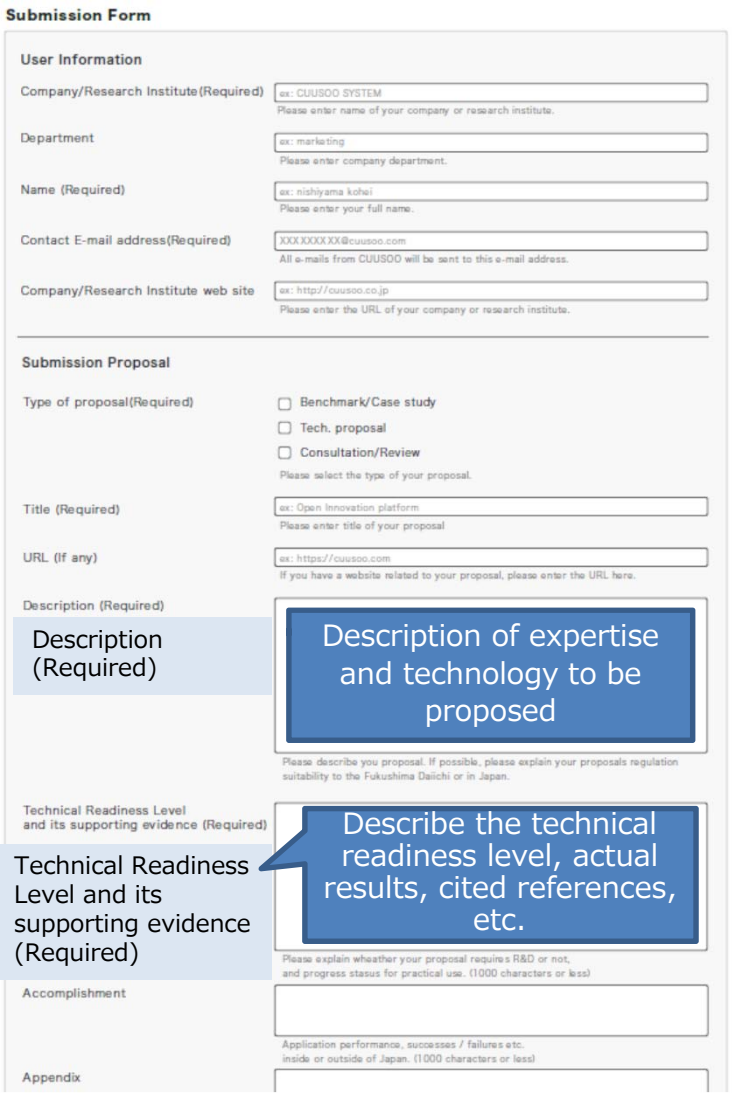
Newly added

Show the issues at Fukushima Daiichi

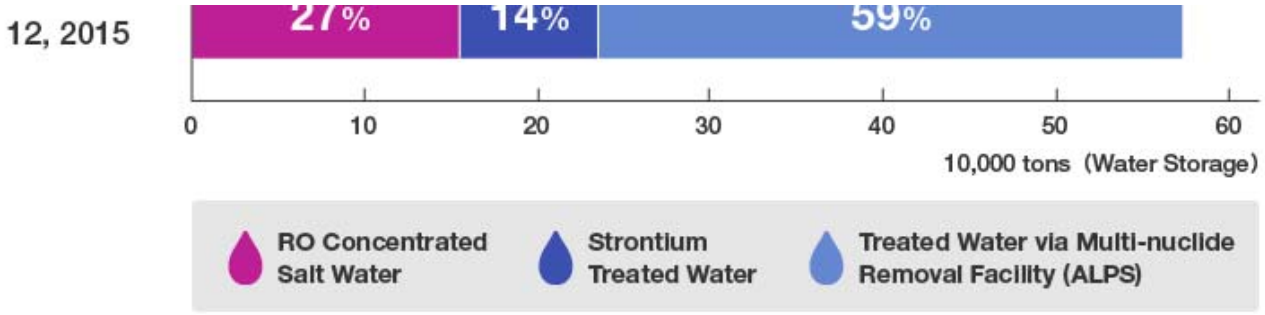
Issue Details Webpage: Image



Expertise and Technology Submission Form



Top page of "Decommissioning Project" on TEPCO's website



Photos Library

About Compensation for Nuclear Damages

Internal exposure dose measurement for the emergency workers who have never measured their internal exposure dose

Contact information for the emergency workers at Fukushima Daiichi Nuclear Power Station who have never measured their internal exposure dose and have lost contact

Contact for Procurement Information

Fukushima-Daiichi decommissioning Challenges

Fukushima Daiichi NPS Prompt Report

May 30, 2016 Recent Topics:ADVANCES IN 'ICE WALL' FREEZING, KK ENHANCEMENTS, AND OVERALL SAFETY IMPROVEMENT HIGHLIGHT LATEST PROGRESS REPORT

Mar 30, 2016 Recent Topics:ICE ... ES OVER PERIOD OF

Mar 29, 2016 Recent Topics:NUC ... DAIICHI FOR FIRST TIME A

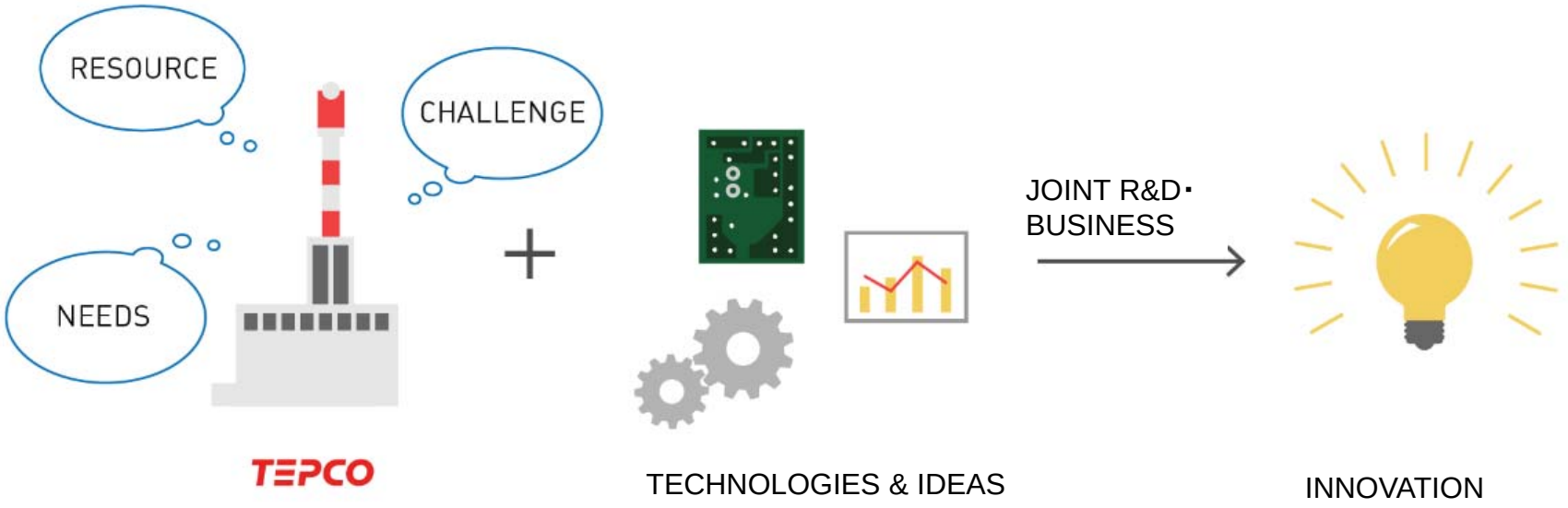
Mar 11, 2016 Recent Topics:MAR ... EDGES CONTINUED RESC

Mar 1, 2016 Recent Topics:A WE CONVENIENCE ST

Add a button for accessing the page for proposing knowledge and technology as well as the issues at Fukushima Daiichi.
(The example is from the English page but a similar link will also be added on the Japanese top page.)

Our Mission

TEPCO is looking for partners that would realize innovative values and solutions to critical social issues.
Through challenging ourselves with new technology, dealing with various businesses, and making even greater use of the big data stored and created by TEPCO, we contribute to society' s development by creating new value for the lives and businesses of consumers and business people.
Co-creation will open new doors.
By partnering with you, we will be able to tackle issues we could not before. It is our mission to create better future by openly cooperating with everyone as we move forward.



Flow chart (Image)

https://tepco.cuusoo.com/