October 8, 2020
Asahi Tanker Co., Ltd.
e5 Lab Inc.

Asahi Tanker Orders 2 of World's 1st Zero-emission Electric-powered Tankers

TOKYO—Asahi Tanker Co., Ltd. (President: Kazunori Nakai; Headquarters: Chiyoda-ku, Tokyo) today announced that it has ordered two of the world's first zero-emission electric-powered tankers as follows.

	Shipyard	System Integrator	Delivery
1st tanker	Koa Sangyou Co., Ltd. (Headquarters: Marugame, Kagawa, Japan)	Kawasaki Heavy Industries, Ltd.	March 2022
2nd tanker	Imura Zosen KK (Headquarters: Komatsushima, Tokushima, Japan)		March 2023

The two tankers will adopt the "e5 tanker" design developed by e5 Lab Inc. (President: Tomoaki Ichida; Headquarters: Chiyoda-ku, Tokyo).

They will be powered completely by large-capacity lithium ion batteries and are slated to go into service as bunker vessels in Tokyo Bay.

The two tankers will achieve zero emissions of CO_2, NOx, SOx, and particulates thanks to their all-electric core energy system, dramatically reducing their environmental impact. In addition, their reduced noise and vibration will create a more comfortable work environment for the crewmembers and limit noise pollution in the bay and its surroundings.

Adoption of various automated equipment and digital tools including Internet of Things (IoT) will reduce crews' onboard workload and increase the ship's operating efficiency.

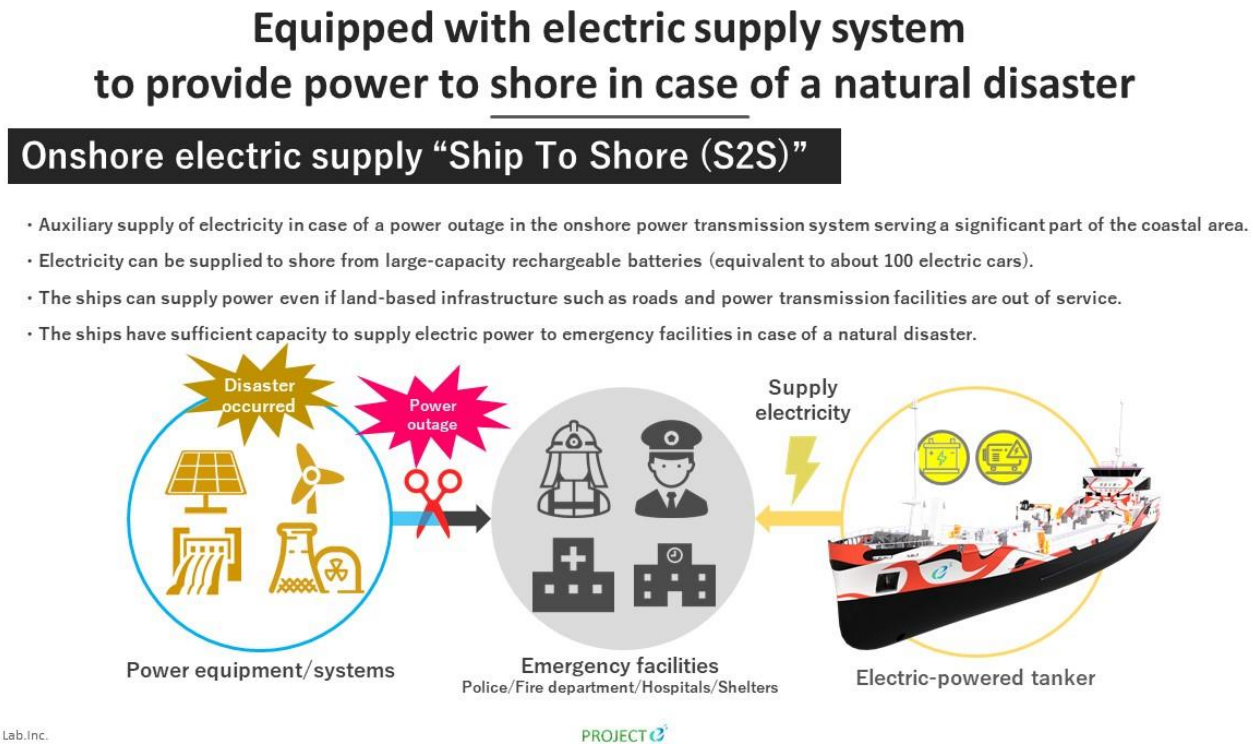
The tankers will play a new role in contributing to measures for the Business Continuity Plan (BCP) and Community Life Continuity Plan (LCP) in case of disaster or emergency, by making the electricity stored in their onboard batteries — defined as "large-capacity batteries for power supply in emergency"— available to supply emergency power. Asahi Tanker and TEPCO Energy Partner, Inc. are currently working on these initiatives.

Asahi Tanker and e5 Lab will realize a sustainable ocean shipping industry through efforts to improve the work environment for crewmembers, which is an urgent issue facing the coastal shipping sector, and global environmental protection through the development and introduction of these advanced ships.

[Electric-powered tanker Specifications]

Dimensions	LOA: 62m / Breadth: 10.3m / Draft: 4.15m
Ship classification society	Nippon Kaiji Kyokai (ClassNK)
Cargo	Fuel oil
Gross tonnage	499 tons
Speed	About 10 knots
Cargo tank capacity	1,280m^3
Propulsion equipment	Azimuth thrusters: 300kw x 2 Side thrusters: 68kw x 2
Battery capacity	3,480kWh

[Large-capacity batteries for power supply in emergencies] for illustrative purposes only



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