

Masashi Ishizuka



Associate Executive Officer
General Manager
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KAWASAKI HEAVY INDUSTRIES, LTD.



Curriculum Vitae

Mr. Ishizuka has 33 years of experience at Kawasaki Heavy Industries, mainly in the areas of designing high-speed trains and project management. His most recent major achievement was the Taiwan High Speed Rail Project, which initially started in December 2000 and commenced revenue service in January 2007. Here, Mr. Ishizuka was selected to serve as the Deputy Project Manager of the Japanese Consortium, Taiwan Shinkansen Corporation, and was responsible for all aspects of the engineering of the 700T rolling stock used in this project. While the reference system for the 700T was the service-proven Series 700 Shinkansen used in Japan, the Taiwanese operators requested numerous design changes and the adoption of international standards. Under the guidance of Mr. Ishizuka, the Japanese Consortium was able to incorporate these requirements and deliver the reliable 700T rolling stock.

Mr. Ishizuka is now responsible for all the export projects at Kawasaki, including those to the United States, in addition to his ongoing involvement in the further development of high speed trains.

Company Profile

Kawasaki Heavy Industries Ltd. was established in 1896 as a shipbuilding company. In 1906, Kawasaki started manufacturing rolling stock and since then has supplied a wide range of innovative products including high speed trains (Shinkansen), inter-city express trains, commuter trains, subway cars, locomotives, freight cars and automated rubber-tire trains. Kawasaki Heavy Industries is proud of its role as the leading rolling stock manufacturer in Japan and of its involvement in the evolution of Shinkansen trains, starting with the first prototype in 1963 and continuing all the way to the latest models being designed today.

Early in the 1980's Kawasaki entered into the rolling stock market in the United States. Its first project was the streetcars for South East Pennsylvania Transit Authority in 1981. Since then Kawasaki has received orders for a total of 3549 cars in the United States. To meet this demand, Kawasaki established two manufacturing plants for rolling stock in the United States: Kawasaki Rail Car in Yonkers, New York and Kawasaki Motors Manufacturing in Lincoln Nebraska. These two facilities not only create jobs for Americans; they create trains that are truly "Made in America."

Kawasaki Heavy Industries Ltd. is an international corporation involved in an array of industries, such as shipbuilding, aerospace, motorcycles, large-scale heavy equipment including gas turbine generators and tunnel-boring machines, construction equipment and industrial and power plants. This diversity gives Kawasaki access to the broad spectrum of state-of-the-art technologies that can spark innovation and lead to advancements in performance, ride quality and environmentally friendliness.

Abstract

It is important that the United States realize the environmental and social benefits that lightweight high-speed rail has to offer. Lightweight high-speed rail systems have been proven in extensive revenue service to be safe, efficient and environmentally friendly.

The introduction of a lightweight high-speed rail system can also create employment opportunities for Americans. Kawasaki has years of experience in designing and manufacturing high-speed trains as well as manufacturing facilities in the United States. The paper addresses the benefits of lightweight high-speed rail systems, the role that Kawasaki can play in successfully developing such systems in the United States and the job opportunities for Americans that will result from the introduction of these systems.

Kawasaki is now developing two high-speed trains that could be introduced into the American market. One is called the *efSET*, a train that is operated on a dedicated high-speed track to a maximum speed of 220 mph (350km/h) and the other is a train of medium high-speed push-pull coach cars that can be operated on upgraded conventional track to a maximum speed of 125 mph (200km/hr). These trains will be fully FRA Tier I and ADA compliant and could be manufactured at existing Kawasaki plants in the United States.

Kawasaki stands ready with the service-proven technology and manufacturing facilities in the United States that can make the high-speed rail aspirations of President Obama's "Green New Deal" a reality and provide America with reliable high-speed rail and all its many benefits.