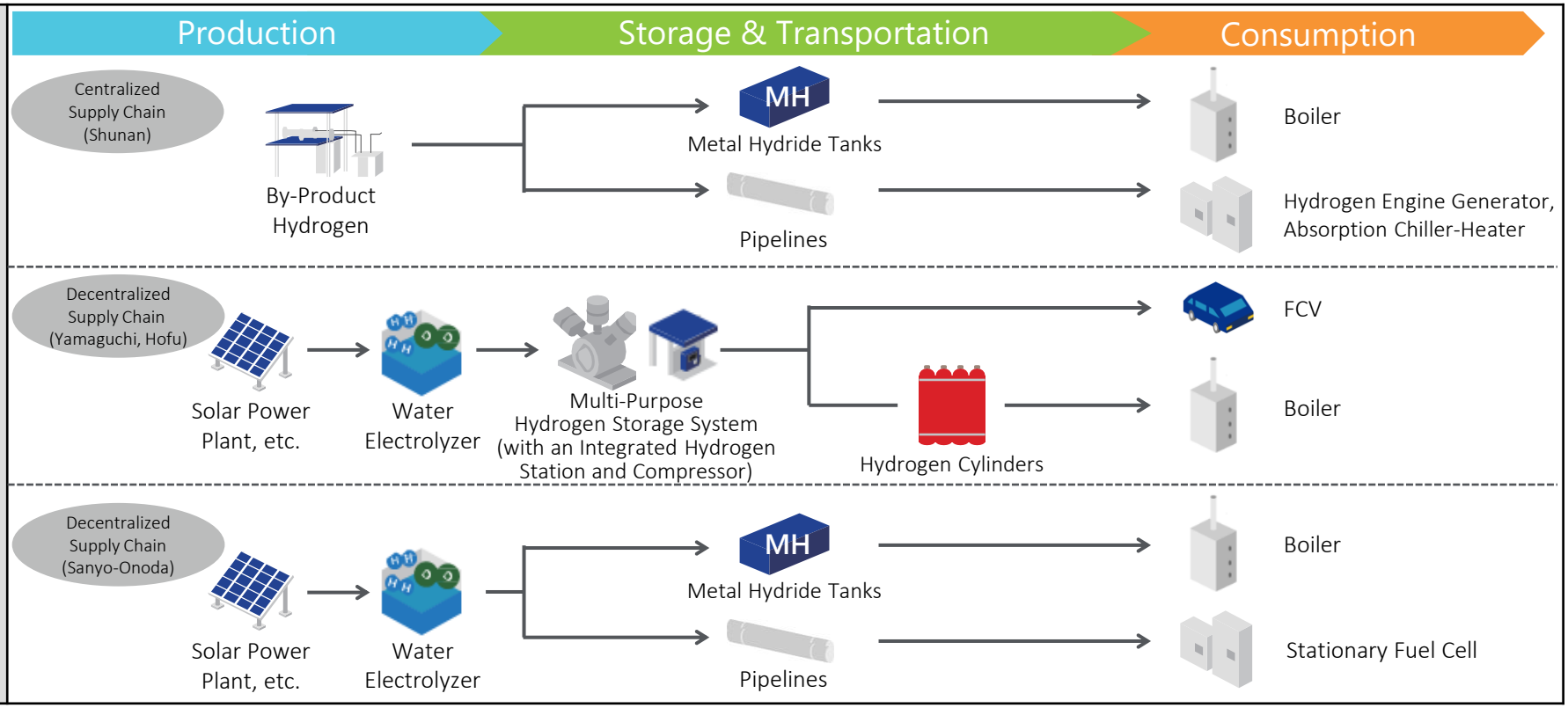
Demonstration of Low-Cost Centralized (via Pipeline) and Decentralized Supply Chain Using By-Product and Renewable Energy Hydrogen (Yamaguchi Prefecture, Primary Partner: Yamaguchi Prefectural Industrial Technology Institute)

Project Overview and Supply Chain Image

Overview	This project delivers by-product hydrogen from a caustic soda plant to facilities such as gymnasiums and swimming clubs. The transport method, either pipelines or trucks equipped with metal hydride (MH) tanks, is selected based on the distance and conditions. Additionally, it demonstrates the efficient transport and use of renewable hydrogen by filling it into lightweight, large-capacity cylinders with a multi-purpose storage system. Furthermore, the project validates a combined supply chain that uses storage tanks, metal hydride tanks, and pipelines to provide hydrogen to boilers and stationary fuel cells.		
Municipality	Yamaguchi Prefecture (Shunan City, Yamaguchi City, Hofu City, Sanyo-Onoda City)	Time Period	FY2025-2029 (Planned)

Supply Chain Image



(Source: A press release by Yamaguchi Prefectural Industrial Technology Institute)