

建設分野を中心とした市場開発活動を展開

Market development activities target mainly the construction sector

2009年度の市場開発活動として、我が国の鋼材の高機能性を活かした社会インフラ整備に関するプロジェクト提案を行い、建築、土木、橋梁など広範な分野における鋼材の利用技術等に関する研究や普及に係わる事業を展開した。

建築分野では、2008年度に研究開発が完了した府省連携プロジェクト「革新的構造材料を用いた新構造システム建築物」開発成果の普及促進活動を展開したほか、改正建築基準法(2007年6月施行)に対応した鋼構造関連基準類の整備を行った。土木分野では「臨海部産業の護岸流動化対策」の技術提案に取り組んだほか、官公庁・関連団体への各種技術・研究分野の提案、普及・啓蒙活動を実施した。また、橋梁分野では橋梁の延命化、機能向上のための補強・更新技術に関する検討を行い鋼橋の普及に努めた。そのほか「鋼構造研究・教育助成事業」の第3期として今後5年間の実施方針の検討を行い、新たにスタートさせた。

海外市場関連では、鋼材需要が旺盛な東南アジアにて、鋼構造に関わる各種セミナーを開催し、我が国の新鋼材・利用技術紹介の海外向け情報誌である“Steel Construction Today & Tomorrow”を刊行し、各国に情報発信する等の普及活動に取り組んだ。

その他、建設分野での環境に配慮した鉄のPR活動を行ったほか、スチール缶の普及活動やファインスチール(亜鉛めっき鋼板)の技術課題の検討、普及活動を進めた。

Market development activities in fiscal 2009 involved submitting proposals for social infrastructure projects that use high-grade steel manufactured in Japan. Another aspect of market development is research involving technologies for using steel in buildings, civil engineering projects, bridges and many other applications as well as programs to promote the use of these technologies.

With regard to buildings, the JISF promoted utilization of the achievements of an R&D program involving a new structural system for buildings using innovative structural materials. This was a collaborative project by the Japanese cabinet and ministries that was completed in fiscal 2008. In addition, the JISF consolidated supportive activities involving standards for steel structures that were established in compliance with Japan's amended Building Standards Law, which was enacted in June 2007. In the civil engineering sector, one focus was ideas for technologies that can prevent the liquefaction at waterfront industrial complexes during an earthquake. Furthermore, the JISF provided ideas for research programs and technologies to government agencies and associated organizations and conducted educational and dissemination activities for these technologies. For bridges, the JISF worked on increasing the use of steel bridges by studying technologies for bridge reinforcements and updates. The goals are improving the durability and functions of bridges. To achieve a new start for the steel structure research and education promotion program, the JISF began work on a policy for activities over the next five years as the third phase of this program.

For overseas construction market promotion, the JISF continuously provided timely and relevant information on steel structural technologies in many countries for the purpose of promoting the use of steel. With a focus on Southeast Asian economies, where steel demand is expected to remain stronger, Southeast Asia Steel Construction Seminars were planned and held by the JISF to promote the use of steel structures. In addition, the JISF distributed its promotional publication on steel structures “Steel Construction Today & Tomorrow (SCT&T)” to subscribers worldwide. This publication provides useful and timely information about Japanese cutting edge steel products and application technologies for construction in Japan.

Besides these promotional activities, the JISF utilized public relations to increase awareness of the environment benefits of using steel structures in the construction sector and conducted promotional activities for steel cans. In addition, the JISF examined technological issues involving “Fine Steel” (galvanized steel sheets) and conducted promotional actions to increase the use of these steel products.

臨海道路に架かる東京港臨海大橋(仮称)工事の様子と完成予想図(国土交通省関東地方整備局東京港湾事務所)

The Tokyo Port Seaside Bridge (tentative name) under construction and a rendering of the completed bridge Source: Tokyo Port Office, Kanto Regional Development Bureau, Ministry of Land, Infrastructure, Transport and Tourism



新構造システム建築物実証実験建物

A trial structure to demonstrate the new structural system for buildings using innovative structural materials



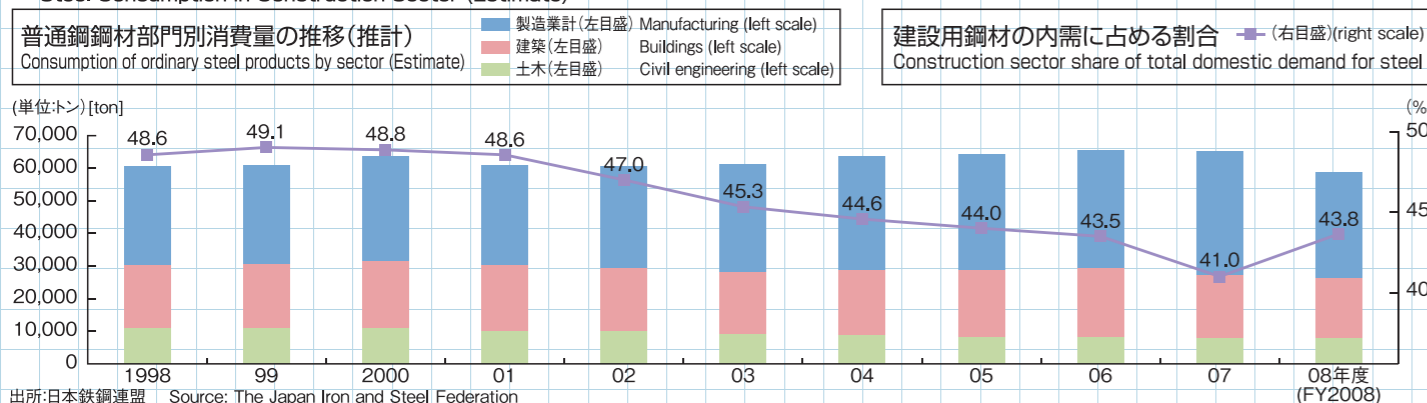
新構造システム建築物の一案

Application of New Building Systems Using Innovative Structural Materials

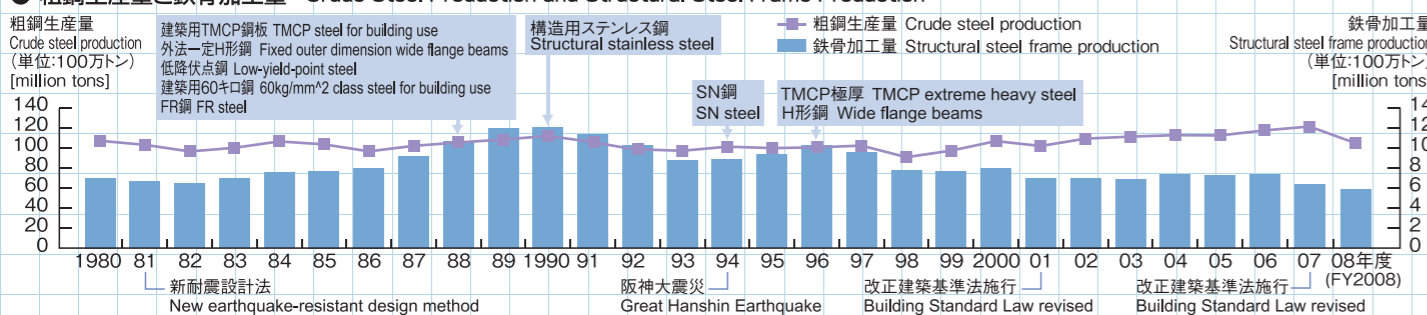


● 建設用鋼材の消費量の推移(推計)

Steel Consumption in Construction Sector (Estimate)

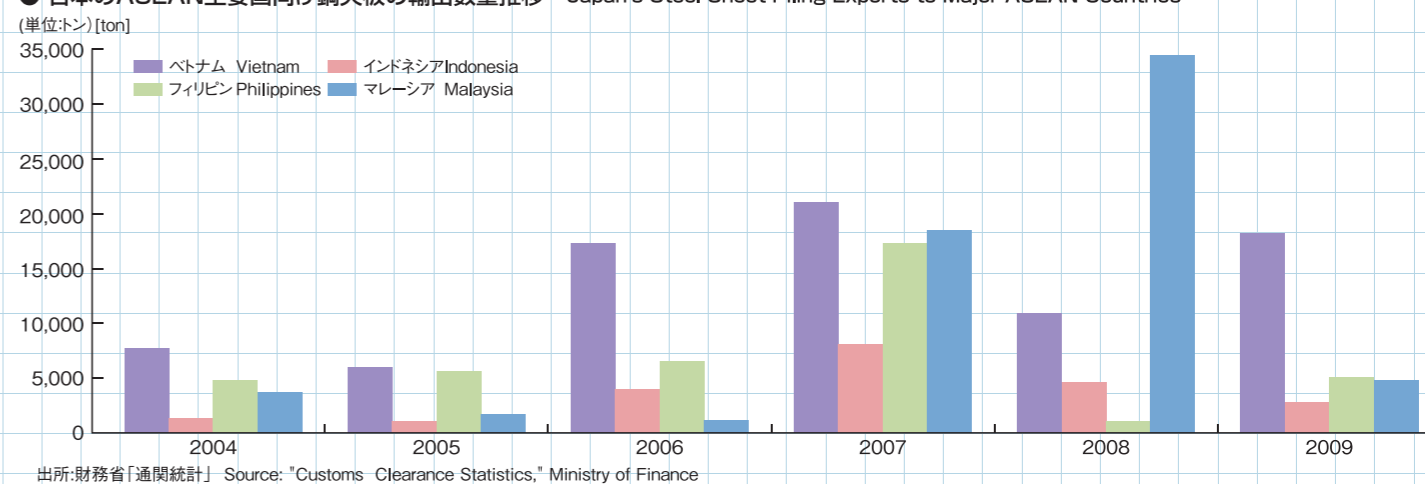


● 粗鋼生産量と鉄骨加工量 Crude Steel Production and Structural Steel Frame Production



出所: (粗鋼生産量) 経済産業省「鉄鋼・非鉄金属・金属製品統計月報」、(鉄骨加工量) 全国鉄構工業協会 Source: (Crude Steel Production) Monthly of Iron and Steel, Non-ferrous Metals, and Fabricated Metals Statistics, Ministry of Economy, Trade and Industry; (Steel Frames Fabricated) Japan Steel-rib Fabricating Association

● 日本のASEAN主要国向け鋼矢板の輸出数量推移 Japan's Steel Sheet Piling Exports to Major ASEAN Countries



● JISF 東南アジア鋼構造建設セミナー(&ワークショップ)開催国・開催都市の推移

開催年度 Holding year (FY)	2004	2005	2006	2007	2008	2009
開催地 Venue	ベトナム(ハノイ) Vietnam (Hanoi) フィリピン(マニラ) Philippines (Manila)	ベトナム(ハノイ・HCM) Vietnam (Hanoi, Ho Chi Min City) マレーシア(KL) Malaysia (Kuala Lumpur)	ベトナム(ハノイ) Vietnam (Hanoi) インドネシア(ジャカルタ) Indonesia (Jakarta)	ベトナム(ハノイ) Vietnam (Hanoi)	ベトナム(ハノイ) Vietnam (Hanoi) インドネシア(ジャカルタ) Indonesia (Jakarta)	ベトナム(ハノイ) Vietnam (Hanoi) ベトナム(ホーチミン) Vietnam (Ho Chi Min City)