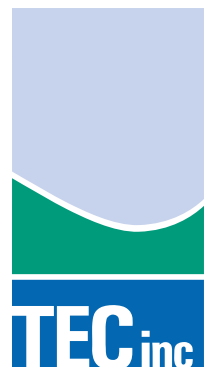


INFRASTRUCTURE MANAGEMENT SERVICES





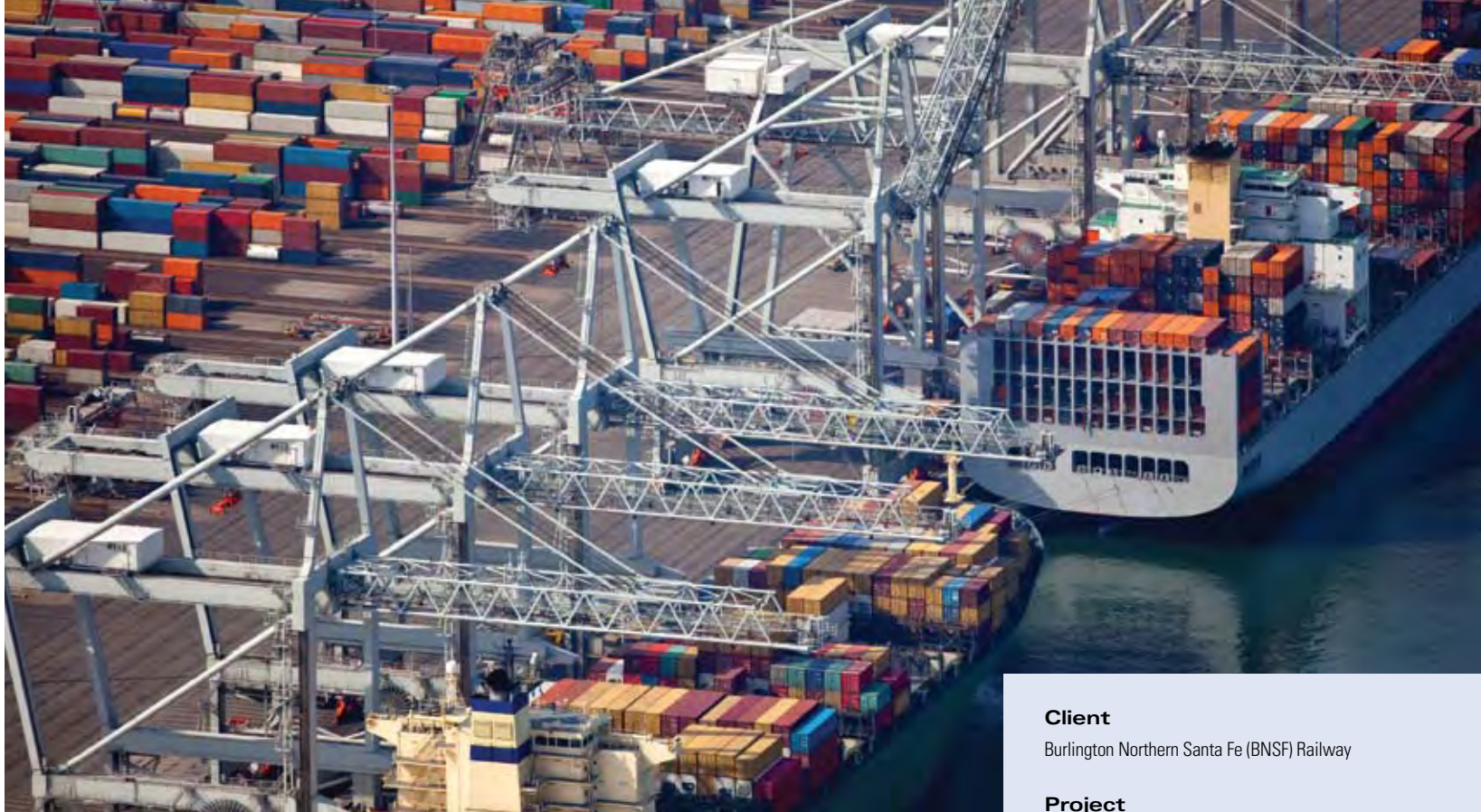
Supporting infrastructure development ...

Well-planned, efficient infrastructure and cost-effective, sustainable operations are goals shared by those responsible for public works programs, including those who plan for the transportation sector. To assist clients in achieving these goals, TEC offers strategic business planning, infrastructure planning and management, and environmental management services.

throughout the world.

We provide transportation organizations with facility and business planning, market analysis, risk assessment, and operational planning, all founded on technical, environmental, and engineering expertise. This translates into a sustainable business model that can be readily implemented.

TEC has served clients in more than 50 countries for over 20 years and has the experience it takes to tackle the most critical challenges facing the infrastructure sector.



Strategic Business Planning

A vital engine of today's economy, the transportation sector requires planning with an integrated vision. TEC's planners, economists, and operations specialists evaluate opportunity and risk when developing business and marketing initiatives; planning development, expansion, and maintenance; and securing financing through public-private partnerships. We develop sustainable planning initiatives that respond to the challenges inherent in each client's market and opportunities.

Areas of Expertise

- Strategic Planning
- Risk Management Assessments and Evaluations
- Market and Operational Analysis
- Economic and Financial Forecasting
- Funding Strategies and Design
- Public Private Partnerships

Client

Burlington Northern Santa Fe (BNSF) Railway

Project

Environmental Management Continual Improvement Process

Situation

Once they had developed, with TEC's assistance, an Environmental Management Continual Improvement Process, BNSF Railway management wanted to further refine their operations by demonstrating and developing processes and procedures conforming to the American Chemistry Council's Responsible Care® Management System (RCMS).

Solution

TEC designed and helped implement an innovative method for BNSF to demonstrate the conformity of its existing management systems to RCMS criteria—saving more than \$600,000. TEC developed a guidance document and worked with the RCMS leadership team, comprising BNSF managers and staff, to achieve third-party confirmation of conformance. BNSF became the first American Chemistry Council Railroad Partner certified as conforming to the RCMS technical specification criteria.





Client

U.S. Department of Transportation Maritime Administration

Project

Hawaii Harbors Infrastructure Expansion Program

Situation

The Maritime Administration (MARAD) established a partnership in 2005 with the Hawaii Department of Transportation, Harbors Division, to assist it in developing and modernizing the state's commercial harbors. The Maritime Administration needed a single Program Management Contractor (PMC), to facilitate the technical studies and design and construction activities required of the program.

Solution

MARAD selected TEC as the PMC, based on TEC's expertise in the planning, design, development, and management of ports and other marine cargo-handling facilities, and the company's experience in the Pacific Rim. From a project office in Honolulu, TEC manages all planning, permitting, design, and construction activities for the program.

Infrastructure Planning and Management

The challenging economic environment of global trade demands cost-effective and efficient transportation infrastructure. TEC leads the way in offering sustainable solutions that meet your functional and economic goals, while ensuring the vital balance between facility requirements and local concerns. Our planners and analysts focus on the facilities and equipment required to meet end-user needs.

Areas of Expertise

- Master Planning
- Terminal Planning
- Engineering and Design
- Asset Management
- Energy Audits
- Operational Analyses
- Construction Management
- Program Management





Environmental Management

From obtaining environmental permits and approvals to developing sustainability plans for ports and airports, TEC has developed environmentally sound transportation infrastructure projects in more than 50 countries. We work with the proponent, the community, and regulators toward mutually acceptable solutions to complex environmental challenges.

Areas of Expertise

- Preparation of Environmental Impact Statements, Environmental Assessments, and Environmental Baseline Studies
- Dredging and Disposal Analysis (including long-term management and disposal plans)
- Environmental Management System Development and Implementation
- Risk Assessment Studies
- Coastal Zone Management
- Land Reclamation
- Sediment Analysis
- Harbor Assessment Studies

Client

Port of Long Beach, CA

Project

Green Port Implementation

Situation

The Port of Long Beach wanted to develop and implement a set of tools and procedures, including checklists, standard operating procedures, and guidance manuals that could provide sustainable design and construction guidelines.

Solution

TEC worked with the Port's Engineering Bureau to generate groundbreaking sustainable design and construction guidelines that include state-of-the-art best practices specific to a maritime facility. TEC prepared a compendium of sustainable design and construction guidelines for use with all applicable development projects. The guidelines incorporated existing standard operating procedures currently being used within Port Engineering and were compatible with the Port's environmental management system. The guidelines were also aligned with the goals and objectives of the Port's Green Port Policy.





Client

Badan Rehabilitasi dan Rekonstruksi NAD-Nias

Project

Aceh Transportation Strategy Study

Situation

The Province of Aceh, Indonesia, needed a transportation strategy for roads, ports, railways, and aviation to maximize the long-term economic growth opportunities of the province and a specific implementation plan to identify high-priority projects and the timeline for their completion.

Solution

With funding from the United States Trade and Development Agency, TEC led a team that analyzed the roads, ports, railway, and aviation sectors, with the goal of maximizing the efficiency of the overall transportation sector. For the ports sector, TEC evaluated the regional cargoes and recommended linking the production regions of the province through a hub and feeder port system. With the recognition that one of the most significant projects needed to promote economic growth in Aceh was the development of a major seaport, TEC developed detailed plans for this new port and assisted in the creation of a public-private partnership to finance the project.

International Experience

TEC has developed a wide range of transportation services for clients throughout the world. Our international experience has included transportation sector planning for entire regions of a country as well as project-specific planning for targeted transportation subsectors. TEC has facilitated public-private partnerships and negotiated individual concession agreements.

TEC's staff has served as transportation specialists for many U.S. government and multilateral, institutional port and intermodal programs, including

U.S. Agency for International Development

U.S. Trade and Development Agency

Millennium Challenge Corporation, with funding by the Millennium Challenge Account

The World Bank

International Finance Corporation

Other multilateral banks, including the Inter-American Development Bank and the Asian Development Bank

United Nations Development Program and United Nations Environment Program



Strategic Business Planning

Strategic Planning
Risk Management Assessments and Evaluations
Market and Operational Analysis
Economic and Financial Forecasting
Funding Strategies and Design
Public Private Partnerships

Infrastructure Planning and Management

Master Planning
Terminal Planning
Engineering and Design
Asset Management
Energy Audits
Operational Analyses
Construction Management
Program Management

Environmental Management

Preparation of Environmental Impact Statements,
Environmental Assessments, and Environmental Baseline Studies
Dredging and Disposal Analysis
(including long-term management and disposal plans)
Environmental Management System Development and Implementation
Risk Assessment Studies
Coastal Zone Management
Land Reclamation
Sediment Analysis
Harbor Assessment Studies

International Experience

U.S. Agency for International Development
U.S. Trade and Development Agency
Millennium Challenge Corporation, with funding by the
Millennium Challenge Account
The World Bank
International Finance Corporation
Other multilateral banks, including the Inter-American
Development Bank and the Asian Development Bank
United Nations Development Program and United Nations
Environment Program



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