

Energy Management Services



280 Albert Street, Suite 800
Ottawa, ON, K1P 5G8
613-562-0652
www.bmb.ca
bkelland@bmb.ca





Introduction

- The BMB energy management service line is designed to help clients make informed decisions on energy (i.e. Fuels, Natural Gas, Electricity, Alternates)
- Energy producers and users need to be flexible and agile in today's volatile marketplace
- Energy users need sophisticated business and market acumen to optimize operational support and minimize unnecessary financial risk
- Both users and producers need to understand the potential impact of the complex regulatory, environmental and sustainability context



Why Energy is Important

For any large corporate consumer...

- A large cost driver -- and opportunity to realize additional savings
- Market driven -- highly volatile commodities governed by sophisticated and dynamic marketplaces
- Complex -- inextricably linked to environmental and sustainable issues, legislation and regulation

Specifically, for a military...

- a strategic resource, vital to success on the battlefield
- a critical component of national security
- one of the largest cost drivers in any military and consequently with potential significant savings

Energy Scope

Key Factors

National Security Sustainability Technology Marketplace Dynamics Operational Requirements

Optimized Energy Supply Chain

- Strategic direction
- Reduced energy costs
- Responsive service delivery
- Environmental responsibility
- Increased ops effectiveness
- Accountable energy mgt

Management, Operations and Maintenance Activities

Strategic
Planning

Integrated
Materiel
Management

Infrastructure &
Environment

Information
Technology

HR &
Training



Scope of BMB Energy Services

- BMB assists organizations to improve their energy business - to focus effort, to ensure that members of the organization are working toward the same goals, and to assess and adjust the organization's direction in response to a changing environment.
- This is achieved through expertise and proven experience in all components of an energy program, including:
 - Strategic Planning
 - Program Audit and Evaluation
 - Performance Measurement and Accountability
 - IM/IT requirements definition thru project management implementation
 - Sustainable Development including Climate Change
 - Program Implementation Support



Fuel Supply Chain Analysis

- **BMB expertise:**
 - End-to-end supply chain analysis and optimization (from refinery to vehicle, plane, ship, jerry-can, etc.)
 - Physical plant optimization including fuel farm design and distribution engineering and detailed design plans
 - Business Case development highlighting Return On Investment (ROI) analysis, cost-benefit analysis, options analysis, dependencies analysis, risk management planning
 - Management Framework design including, Service Level Agreement development, accountability framework, process models, work descriptions, training/professional development design



+100 Additive Implementation

- **BMB expertise:**
 - ROI analysis to determine viability
 - Extensive use of our military and industry contacts to ensure swift, successful and cost effective implementation
 - Additive sanctioning activity with airframe and engine OEMs
 - Analysis to optimize injection concept of operations
 - Procurement and installation of all equipment including additive, storage tanks, injection hardware, and filters
 - Training on additive and fuel handling
 - Program monitoring and reporting



Energy and Fuel Information Management Solutions

- **BMB expertise:**
 - Management and operations information requirements definition
 - COTS solutions cost benefit analysis
 - Functional specification development
 - Integration management throughout project lifecycle
 - Training and ongoing support



Understanding The Deregulated Electricity and Natural Energy Marketplace

- **Involves:**
 - Assessing the impact of government policy, international agreements (e.g., Kyoto Protocol), legislation, regulatory frameworks and trade agreements
 - Developing Risk Management strategy and approach to minimize risk and exposure
 - Quantifying your energy profile to develop best posture towards marketplace



Energy Trends and Sustainable Development Review

- **Involves:**
 - Understanding of the impact of international and national legislative and regulatory frameworks (e.g., Kyoto Protocol)
 - Analysis of future energy and sustainable development trends and requirements to change business trajectory to accommodate these
 - Toolkit of sustainable development decision support tools



Training

- **BMB expertise:**
 - Evaluation and needs analysis for complete energy spectrum from fuel handling to energy market assessment
 - Modular approach to both classroom and on the job training
 - Advanced training methodologies to ensure best retention and learning
 - E-learning solution development and deployment



Why BMB

- Technical, logistical and management consulting expertise to address energy in a holistic and balanced manner
- Detailed understanding and significant experience in Military and Public Sector
- International experience in sustainable development
- Leading practitioners in fuel/energy related education, training and organizational learning
- Extensive logistics and supply chain management experience
- Fuel/energy related best practices in private and public sectors world-wide



Selected References

Department of National Defence/Canadian Forces

- Implementation of F-37 (JP8+100)
- Reform of Aviation Fuels Management
- Fuels Program Review and Evaluation
- Electricity Program Review and Evaluation
- Fuel Information Management System Development
- Military Fuels Management Best Practices
- Supply and Distribution Optimization for CFB Gagetown and 4 Wing Cold Lake

Other related projects

- The Clean Development Mechanism and Future Emissions Trading Regimes - Economic Opportunities for South Africa (**Client: USAID, Energy Development Research Centre**)
- Program Review and Evaluations: Commercial Building Incentive, Energy Innovators Plus Program, Renewable Energy Deployment Initiative, Energuide for Homes Program (**Client: Office of Energy Efficiency, Natural Resources Canada**)
- Renewable Energy Deployment Initiative (Client : **Office of Energy R&D, Natural Resources Canada**)
- Results based management and accountability framework for the Canadian Environmental Protection Act (**Client: Environment Canada**)



Contact Information

Bob Kelland P. Eng., MBA

Partner – Energy Management Service Line

Ph: (613) 293-1819

Email: bkelland@bmb.ca

Please contact Bob if you are interested in additional documentation, or learning more about our energy management service line.