

FluxGen Industries Ltd.

Forging Tomorrow's Welds

Airdrie, Alberta, Canada

<http://www.fluxgenindustries.ca>

Executive Summary

Company Overview

FluxGen Industries Ltd. is Under Formation and positioned to become a leading manufacturer of submerged arc welding (SAW) flux and specialty alloys in Western Canada.

Vision: From molten core to global connection — FluxGen powers the world's welds

Mission: Localize production, reduce import dependency, and promote innovation in welding materials. Located in Airdrie, Alberta, FluxGen will address the critical supply chain gaps in the North American welding materials market while supporting local economic development and job creation.

Business Model & Development Phases

Development Phases

Phase	Output (kg/month)	Facility Type	Key Focus
Phase 1 - Pilot	60,000	Pilot line (semi-automated)	80% Western Canada suppliers
Phase 2 - Scale	180,000	Automated line + bulk handling	85% North America suppliers
Phase 3 - Expansion	320,000	Fully automated plant	85% NA + strategic imports

FluxGen operates on a phased approach to market entry and scaling:

- **Pilot Phase:** Establish manufacturing capabilities, validate product quality, and build initial customer base
 - **Scale-Up Phase:** Expand production capacity, automate processes, and capture larger market share
 - **Full Production:** Achieve optimal production efficiency and market leadership in Western Canada
- The business model emphasizes local sourcing (80-90% Canada-based raw materials), quality manufacturing, and strong customer relationships in the oil & gas, infrastructure, and manufacturing sectors.

Management Team

Key Personnel

Name	Role	Contact
Pratik Jhaveri	Managing Director	pratik.jhaveri@fluxgenindustries.ca +1 647 675 3041
Arpan Patel	Operations Director	arpan.patel@fluxgenindustries.ca +1 306 209 5912
Abhishek Patel	Supply Chain Director	abhishek.patel@fluxgenindustries.ca +1 587 578 3883
Bhargav Patel	Quality and Compliance Director	bhargav.patel@fluxgenindustries.ca +1 587 971 7887

The FluxGen management team brings together extensive experience in manufacturing, operations, and supply chain management. The leadership team has a proven track record in scaling industrial operations and building successful businesses in competitive markets. The team's combined expertise in metallurgy, manufacturing processes, business development, and financial management positions FluxGen for successful execution of its business plan and achievement of operational milestones.

Financial Highlights

Investment Overview

Investment Category	Pilot Phase	Total Estimated
Total CAPEX Investment	CAD \$0.00	CAD \$3,340,000.00
Production Capacity	500 kg/month	5,000+ kg/month
Target Markets	Alberta	Western Canada
Raw Material Sourcing	80% Canadian	90% Canadian

Funding Strategy: FluxGen has identified 6 government funding programs that align with our manufacturing and innovation objectives. These programs support local manufacturing, job creation, and supply chain resilience initiatives. The company's location in Alberta provides access to significant government support for manufacturing and economic development, potentially reducing the effective investment required from private sources.

Economic Impact

FluxGen's operations will deliver significant economic benefits to the Airdrie region and Alberta:

- **Job Creation:** Direct employment of 15-25 full-time positions across manufacturing, quality control, logistics, and administration
- **Local Sourcing:** Prioritizing Canadian suppliers for 80-90% of raw materials, supporting domestic supply chains
- **Manufacturing Capacity:** Up to 560,000 kg/month production capacity at full scale
- **Import Substitution:** Reducing dependency on imported welding materials from offshore suppliers
- **Skills Development:** Training programs and partnerships with local technical institutions
- **Tax Revenue:** Contributing to municipal and provincial tax base through property, corporate, and employment taxes

The facility will serve as a hub for welding materials innovation and manufacturing excellence in Western Canada.

Facility Requirements

FluxGen requires a strategic industrial location with the following specifications:

- **Land Area:** 10-15 acres for manufacturing facility, raw material storage, and future expansion
- **Utilities:** High-capacity electrical service (1-2 MW), natural gas access, reliable water supply
- **Transportation:** Highway access for truck transportation, proximity to rail transportation preferred
- **Zoning:** Heavy industrial zoning with permits for chemical processing and manufacturing operations
- **Environmental:** Compliance with environmental regulations, dust control, and waste management systems

The Airdrie location provides excellent access to regional markets, transportation infrastructure, and skilled workforce while maintaining competitive operating costs.

Next Steps & Milestones

Immediate Priorities (Next 90 Days):

- Complete market validation and customer engagement
- Finalize site selection and facility planning
- Submit applications for identified government funding programs
- Complete detailed equipment specifications and vendor selection
- Advance corporate structure and regulatory compliance

Phase 1 Implementation (6-12 Months):

- Secure facility lease/purchase and begin build-out
- Complete equipment procurement and installation
- Hire core production and quality control team
- Obtain necessary permits and certifications
- Begin pilot production and customer trials

Long-term Objectives (12-24 Months):

- Achieve consistent production quality and customer satisfaction
- Scale operations to meet growing market demand
- Expand product portfolio and customer base
- Evaluate opportunities for additional facilities or capabilities

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