

Project Services

Technology is transforming industry faster than Owners and regulations can keep pace.

Projects are more complicated. In this exciting and complex world, we deliver the solutions you need to make sound decisions.

About APG

Aurora Professional Group delivers research and advice to organizations and Owners seeking to protect their strategic advantage and improve their capital efficiency. APG's strategic consultant network rapidly delivers top-tier services without the lever-age model. Clients receive genuine collaboration through tailored fee arrangements.

Why APG?

Our model provides exceptional advantages over traditional consulting firms:

1. We engage clients only when we have the exact experience required. Our insights and reports are unique for every job.
2. Our overhead is much lower than that of our peers. In cost-driven projects, we meet and then exceed your requirements with *fees for service*. In schedule-driven projects, we can provide the time and genuine collaboration often missing from our competitors.

Our Expertise

APG consultants are often experts in their fields. Collectively, we have several decades of experience across a variety of industries. Our areas of expertise span more than sixty specialties in the following categories:

- Engineering, Piloting, and Project Advisory
- Management Advisory
- Regulatory Assessments and Advisory
- Technology Research and Advisory

Industries

PROJECTS

APG can advise or integrate with owner or contractor teams in commercial, industrial, and institutional projects. We are also here to assist with your claim development or defence.

ENERGY

Expect tailored solutions for the industrial, cleantech, power / transmission, and renewables industries. APG is adept at contextualizing cross-value chain opportunities to improve business models and meet the requirements of ever-changing regulatory frameworks.

PROFESSIONAL SERVICES

The professionals' professional—we understand the needs of our consulting and legal firm peers and are positioned to improve operations or provide bandwidth and services as required.

Services

RESEARCH

APG offers research solutions based on a collaborative phased framework to maximize relevance and insights. By combining data-driven analyses with unique graphics and visuals, APG provides a polished work product tailored to your specific needs.

ADVISORY

Owners and contractors face challenges regarding to technology evaluation, design, and project execution. APG provides solutions through the different phases of the project life cycle to ensure that delivery is efficient and controls are operating effectively. The ultimate goal is the organization's successful delivery of their capital program and protection against stakeholder and litigation issues.

SPECIALTY ASSIGNMENTS

APG can work within your organization. Workshops, facilitation, and cooperative development of internal systems, procedures, and initiatives are our specialty!

Specialties

ENGINEERING / PROJECT ADVISORY

- Asset Integrity Management
- Commissioning and Turnover Planning Assessments
- Constructability Assessments
- De-bottlenecking and Optimization
- Design Assessments
- Design for Potable Rainwater Systems
- Design for Onsite Wastewater - Residential (Septic)
- Design for Onsite Wastewater - Large Flow (Municipal)
- Design Data Aggregation for Operations and Maintenance
- Engineering Risk Assessments (HAZOP, SIL)
- Equipment Sizing and Standardization Assessments
- FEED Completeness Assessments
- FEL / Gating Assessments
- Forensic Contract Analyses, Claim Development, and Productions
- Modularization – Fabrication and Assembly Assessments
- Modularization – Philosophy and Design Assessments
- Process / Facility Performance Analysis
- Process and Control Narrative Assessments
- Process Simulations (HYSYS, UNSIM)
- Procurement Strategy Assessments
- Project Controls (Schedule and Cost) Assessments
- Project Delivery and De-risking Assessments
- Project Engineering Assessments
- Project Execution Assessments
- Project Feasibility Analysis
- Refining / Upgrading Process Assessments
- Safety Engineering Assessments
- Specification Development
- Steel Design Assessments
- Utilities and Off-site Engineering Assessments
- Value Engineering Assessments
- Water and Wastewater Assessments and Design

MANAGEMENT ADVISORY

- Economic Modelling and Evaluations (DCF, scenarios, sensitivities)
- Energy Efficiency and Conservation Assessments
- Procedures and Policies Development
- Program Management
- Project Documentation Analyses
- Project Execution Risk Analysis
- Strategic Planning and Management
- Training
- Workshop Planning and Facilitation

REGULATORY ASSESSMENT & ADVISORY

- Boiler, Boiler External Jurisdictional Requirements
- Code Interpretation Analyses
- Design Registration Jurisdictional Requirements
- Foreign Equipment Jurisdictional Import Requirements
- Jurisdiction / Code-break Determinations
- Pressure Relief Jurisdictional Requirements
- Pressure Relief Systems Assessments
- Regulatory Requirements and Compliance (Alberta)
- Regulatory Requirements and Compliance (BC)

TECHNOLOGY RESEARCH & ADVISORY

- Biomass / Hog Fuel Utilization
- Carbon Capture
- CO2 EOR Advisory
- Electric Vehicle Implementation
- Experiment Planning
- Freshwater and Brackish Water Treatment
- Hydraulic Fracturing Produced Water Management
- Phase Separation – New Tech
- Pilot Planning
- Steam Process and Blowdown Optimization
- Technology Evaluations (Manufacturing Readiness)
- Technology Evaluations (Technology Readiness)
- Technology Scoping and Landscaping
- Technology Scouting
- Thermal Produced Water Management
- Wastewater - Onsite Ground Dispersal
- Water Chemistry and Analytical Testing
- Water Management – Alkalinity Reduction
- Water Management – Filtration
- Water Management – Ion Exchange
- Water Management – Lime Softening
- Water Management – Regeneration Systems
- Water Management – Sludge Management
- Water Management – Slurry Systems
- Water Management Jurisdictional Requirements
- Water Management – Evaporators
- Water Technology Assessment – Life Cycle Costs

Meet Our Team

- James Bremner – Process and Simulation Expert
- Chris Clark – Field Engineering
- Darlene Clarke – Sustainable Energy and Program Management Consultant
- Tammy Cooper – Document Management Expert
- Bradley Fossen – Managing Director
- Ross Harper – Design and Construction Expert
- Caroline Mussbacher – Water Expert
- Scott Mussbacher – Water Process Expert
- Jackie Pearce – Document Expeditor and Records Professional
- Nick Quinn – Project Controls Specialist and Forensic Analyst

Our Pedigree

You can rely on our experts to provide effective, practical, multifaceted advice. APG consultants are engineers, MBAs, economists, technologists, scientists, and seasoned veterans in their field. This combination of industry, technical, managerial, and financial experience ensures that all your business elements are considered.



CONTACT

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