



HYDROGEN CONSULTING

Sacré-Davey Expertise Hydrogen Consulting

The Global economy is focused on decarbonization a reduction of GHG's, and a transition to clean energy. The benefits and versatility of hydrogen make it a compelling contender for clean energy applications. Given the Environmental, Social and Governance (ESG) benefits of hydrogen, owners and operators of industrial facilities are increasingly looking to hydrogen as an energy solution and Sacré-Davey's hydrogen consulting and advisory practice can help. From greenhouse gas calculations to full integration of hydrogen equipment, we work with our clients to develop practical strategies for integration of hydrogen into their day-to-day operations allowing them to offset consumption of traditional high carbon fuel sources.

Services Hydrogen Consulting

The Sacré-Davey team can help you identify and implement the most effective decarbonizing strategies.

Consulting

- Consulting and adoption strategies
- Advisory services
- Education
- Strategic development
- Government funding applications
- Market analysis
- GHG calculations / carbon accounting
- Feasibility studies
- End use studies
- Hydrogen sourcing
 - Waste hydrogen recovery / reuse
- Electrolysis
- SMR

Engineering

- Codes and standards
- Infrastructure
- Engineer of Record (EOR)
- Virtual pipelines
- Technology development
- Technology scaleup
- Customized solutions for
 - Generation
 - Processing
 - Integration
 - End use

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Projects

Hydrogen Consulting

Sacré-Davey possesses expertise in all facets of the hydrogen economy including design, commercial operations and optimization, and competitive and strategic analysis. Our team members have experience working alongside regulatory bodies and working throughout the permitting process around the globe.

Sacré-Davey's exciting hydrogen advisory project portfolio includes:

- ✓ World demand study for hydrogen, completed for the Caisse de dépôts et placements du Québec (CDPQ)
- ✓ Hydrogen production technologies, for Hydro-Québec
- ✓ Owners engineers, Subject Matter Experts (SME) and reliability experts for Société d'Énergie de la Baie James world class green hydrogen production (Hydro-Québec)
- ✓ Developed and delivered the Integrated Waste Hydrogen Utilization Project (iWHUP)
- ✓ Integration of fuel cells in Cogeneration systems
- ✓ Development and scale up of a waste hydrogen processing plant
- ✓ Market for storage in metal hydrides, for IREQ
- ✓ Fuel cell hydrogen buses demand and roadmap, BC Transit and the Canadian Fuel Cell Alliance
- ✓ Medium and heavy electric truck technologies (including hydrogen), NRCan
- ✓ Strategic plan, for a manufacturer of electrolyzer technology
- ✓ Economic development using hydrogen technologies, for Sarnia-Lambton Economic Partnership
- ✓ Feasibility study for the use of hydrogen as a fuel for transit buses, OC Transport
- ✓ European market for hydrogen equipment and machinery, for DFAIT and Industry Canada



Quality Management – The Organizational Quality Management System (OQM) was designed by engineers specifically for the engineering profession and provides a significant step towards ISO Certification. Sacré-Davey Engineering was one of the first companies to implement this program and be certified in its use. All offices of the company, agnostic of location, adhere to this program in our efforts to maintain the same high-quality standards demanded by our clients.

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