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Alberta's Environmental Products and Services Sector

Industry at a glance

Environmental Products and Services (EPS) consists of activities that produce goods and services to measure, prevent, limit, minimize and/or correct environmental damages to water, air, and soil, as well as problems related to waste and ecosystems. Alberta-based companies spend over \$5 billion annually on environmental protection goods and services, while the worldwide market is approaching \$1 trillion. Growth of this industry is highly dependent on strong regulatory frameworks that balance environmental, social and economic risks and opportunities.

Fast facts

- EPS is the core business of nearly 1,600 companies in Alberta.
- Alberta companies spend more than all other provinces combined on environmental protection.
- Alberta's environmental industry has an international reputation for excellence in water treatment and waste management.
- There are over 7,600 contaminated sites listed on the Alberta Environmental Site Assessment Repository (ESAR). One thousand Alberta sites are listed in the Federal Contaminated Sites Inventory and there is ongoing demand for remediation of inactive oil and gas wells.

Areas of expertise

A large environmental services industry has developed in Alberta, and its growth has been driven as a result of environmental regulations that govern the full life cycle of industry. For instance, more than 400,000 oil and gas wells have been drilled in the province and more are drilled each year. Reclamation certificates are required to close out the life cycle of each well, signaling significant local market demand for remediation and reclamation.

- Land remediation and reclamation: Alberta's environmental sector is restoring land, making this natural resource clean, safe and usable.
- Water and wastewater: Alberta's Water for Life action plan aims for safe, secure drinking water, healthy aquatic ecosystems, and reliable, quality water supplies for a sustainable economy. There is approximately \$1.8 billion in proposed and planned water infrastructure projects to meet the surging economic and population growth in the province. Large industry, particularly oil sands development, will require water treatment solutions and technologies that drive down costs while protecting the quality of water that is returned to the ecosystem. Alberta is home to the Advancing Canadian Wastewater Assets facility in Calgary, a unique-in-the-world research partnership tackling global remediation questions and testing wastewater treatment technologies in a real world environment. A directory of Alberta Water and Technology Businesses is available here: <http://albertawater.com/water-and-technology-business-directory>.
- Innovation: Alberta Innovates conducts energy and environment-related research in Alberta and works with government and industry to promote innovation and technology in the energy sector. There is a focus on increased funding for the development and implementation of greenhouse gas related technologies and water related technologies.

艾伯塔省环保产品和服务行业

行业概况

环保产品和服务 (EPS) 包括生产商品和提供服务,以衡量、预防、限制、减少和/或修复环境对水、空气以及土壤产生的环境损害,也包括与废弃物和生态系统相关的环境问题。艾伯塔省企业每年投入超过50亿加币以发展环保产品和服务,与此同时,全球环保市场已接近一万亿加币。环保行业的增长高度依赖有利的监管框架以平衡环境、社会与经济风险和发展机遇。

行业一览

- EPS是艾伯塔省近1600家公司的核心业务
- 艾伯塔省企业对环保的资金投入高出加拿大其他所有省份的总和
- 艾伯塔省环保产业在水处理和废物管理方面具有卓越的国际声誉
- 超过7,600个受污染场地已编入艾伯塔省场地环保评估库 (ESAR)。同时,超过1,000个本省受污染场地也已列入联邦政府的清单之中,且艾伯塔省针对停产油气井的修复仍有持续需求

专业领域

环境服务产业在艾伯塔省发展迅速,其增长得益于本省环境法规涵盖了整个环保产业的生命周期。例如,每年艾伯塔省钻探超过40万口油气井,且每年都有增长;每个油井结束生产周期都要求复垦证书,这意味着艾伯塔省对修复与复垦有着很大的本土市场需求。

- 土壤修复和复垦:艾伯塔省的环保产业正在修复土地,使土地资源再次清洁、安全且可用。

- 水和废水:艾伯塔的生命之水行动计划致力于保证安全可靠的饮用水,健康的水生生态系统并为可持续发展经济提供经济可靠且优质的水源。全省的水基础设施项目大约有\$ 18亿加币的提议或计划,以满足艾伯塔省不断增长的经济和人口。重点产业,特别是油砂开发,需要水处理解决方案和技术以保证在降低成本的同时保护重返生态系统的水源质量。推进加拿大废水资源 (the Advancing Canadian Wastewater Assets) 这一项目就坐落在艾伯塔省的卡尔加里,这项独特的研究伙伴项目致力于解决全球水资源修复问题,并在真实世界的环境整治中试验废水处理技术。如需查看艾伯塔水资源与技术相关企业,请访问<http://albertawater.com/water-and-technology-business-directory>。
- 革新:艾伯塔省创新研究院 (Alberta Innovates) 开展能源和环境相关的研究,并与政府和行业携手促进能源领域的创新和技术发展。该机构将在温室气体相关技术与水处理技术方面投入更多的资金支持。

Advanced Technology Structures Ltd.



- Quick assembly building systems
- Polymer Composite Extruded Building Materials
- PVC extrusions and fabrication of structural building systems

ATS is developing polymer based composite building systems, and has designed and tested this new technology in Alberta, Canada. We are interested in developing advanced formulas using recycled materials, as well as Graphenes, to increase our cost efficiency as well as product enhancements.

Business Objectives

We would like to connect with companies that develop polymer-based compounds using recycled materials or companies that develop Graphenes.

Contact

Dieter Krohmer, Engineer

+1-403-456-6461

advantechstructures@gmail.com

WeChat ID: Blackbeard33

www.advantechstructures.com

Advanced Technology Structures Ltd.



- 快速装配建筑系统
- 聚合物挤压复合建筑材料
- PVC型材与结构建筑系统制造

ATS正在研发聚合物基复合材料的建筑系统，现已在加拿大艾伯塔省设计并测试此项新技术。我们有兴趣使用再生材料进行进一步的配方开发，包括石墨烯，以提高产品的成本效益与强度。

商业目标

我们期望与使用再生材料开发聚合物基复合材料的公司或是开发石墨烯材料的公司建立联系。

联系方式

Dieter Krohmer 工程师

+1-403-456-6461

advantechstructures@gmail.com

微信号: Blackbeard33

www.advantechstructures.com

- Site remediation
- Education, research and technology transfer

CEPro Energy & Environmental Services Inc. (CEPro) is a qualified, licensed environmental consulting and oilfield engineering services company. It was founded in April 2013. Its core expertise is relating to oil and gas asset life-cycle performance management, mature/premature oil and gas asset endlife development engineering, cleantech project development by combined fuel sources, environmental and regulatory compliance management, decommission and oil and gas lands remediation/reclamation, advanced oilfield waste disposal and soil/groundwater remediation equipment, technologies and products.

Business Objectives

CEPro is a leading Canadian environmental engineering organization. CEPro is collectively seeking to further develop business opportunities in China and collaborate with Chinese firms to provide full spectrum environmental engineering services, and to connect with resource and environmental companies, as well as environmental research firms.

Contact

Lian Zhao, President

+1-403-828-5255

lian.zhao@ceprogroup.com

Joseph Wang, Director

+1-403-830-7764

joseph.wang@ceprogroup.com

www.ceprogroup.com

- 场地修复
- 教育、研究与技术转移

CEPro Energy & Environmental Services Inc. (CEPro) 是一家有资质与执照的环境咨询和油田工程服务公司。CEPro成立于2013年4月，专长包括油气资产生命周期绩效管理，成熟或成熟早期的油气资产工程管理，使用混合燃料的清洁技术项目开发，环境和法规合规管理，停产与油气场地修复和复垦，油田废物处理和土壤/地下水修复设备、技术与产品等。

商业目标

CEPro是加拿大领先的环境工程企业，我们寻求在中国进一步发展的商业机会，愿意与中国公司合作以提供全方位的环境工程服务，同时与资源和环保企业和环境研究企业建立联系。

联系方式

Lian Zhao 总裁

+1-403-828-5255

lian.zhao@ceprogroup.com

Joseph Wang 总监

+1-403-830-7764

joseph.wang@ceprogroup.com

www.ceprogroup.com

Cognitive Systems

- Condition monitoring
- Failure prediction
- Vibration mitigation

At Cognitive Systems, we offer a non-intrusive technology for condition monitoring, failure prediction and prevention of electric rotary equipment. By combining the power of high fidelity data and in-depth domain knowledge, we help industries increase the mean time between failures while mitigating vibrations and decreasing energy consumption. This technology does not require any sensor installation on the motor or associated loads. As a result, it is especially attractive for inaccessible driven equipment and is applicable to most types of pumps, compressors, generators and similar loads.

Our proprietary technology allows us to extract and deliver high fidelity data and critical operations information for technicians and engineers on site and over the cloud for data analysis, troubleshooting, monitoring and corrective actions by team experts.

Business Objectives

Cognitive Systems is seeking clients in vertical industries with electric motors to develop secondary test and demonstration projects. Our goal is to become a global leader and be the first choice of clients for the smooth and efficient operation of their electric motors and generators. We want to expand in the USA, Middle East, and Asia. We also seek to build relationships with hardware and software companies for improving our custom products.

Contact

Amir Badkoubeh, Ph.D., P.Eng., President & Founder

+1-403-437-9670

amir@cognitivesystems.ca

cognitivesystems.ca

Cognitive Systems

- 状况监测
- 故障预测
- 振动消除

Cognitive Systems采用非侵入式技术进行状况监测，故障预测和电动旋转设备的预防。我们利用高保真数据和资深行业知识帮助行业增加平均故障间隔时间，同时减少振动并降低能耗。该技术不需要在电机或相关负载上安装任何传感器。因此，我们的技术对于难以接近的驱动设备非常有吸引力，且适用于大多数类型的泵机，压缩机，发电机或类似负载。

我们的专有技术能够为现场和云端的技术人员和工程师提取并提供高保真数据与关键操作信息，以便团队专家进行数据分析，故障排除，监控和修复故障。

商业目标

Cognitive Systems寻求垂直行业领域中使用电动机开发二级测试和示范项目的客户。我们的目标是成为本领域的全球领导者，成为客户期望实现电动机和发电机平 高效运行的首选企业。我们期望在美国，中东和亚洲拓展业务，同时我们也寻求与硬件和软件公司建立联系以改进我们的定制产品。

联系方式

Amir Badkoubeh 博士，注册工程师，总裁兼创始人

+1-403-437-9670

amir@cognitivesystems.ca

cognitivesystems.ca

Earthmaster Environmental Strategies Inc.



- Innovative green soil remediation technology
- Practical science delivering practical results

Earthmaster is an environmental service provider for the management of polluted soils from the agricultural, industrial, and oil and gas industries. Our expertise includes:

- Site assessment and remediation
- PEPSystems Phytoremediation

Earthmaster developed a world leading Phytoremediation Technology called PEPSystems™. PEPSystems is used to remediate soils polluted with hydrocarbon, salt and select heavy metals. This green technology is scientifically and commercially proven.

Earthmaster provides a combination of experience and personal service to assist in complex soil pollution issues.

Business Objectives

We want to connect with people from the agricultural, industrial and oil and gas industries to discuss soil remediation using our PEPSystems.

Contact

Amber Flamand, Vice President of Business Development

+1-403-510-3851

earthmaster.enviro@outlook.com

WeChat ID: Gilley73

Adam Dunn, Vice President of Operations

+1-403-899-5587

earthmaster.enviro@outlook.com

WeChat ID: DunnAdam

www.earthmaster.ab.ca

Earthmaster Environmental Strategies Inc.



- 创新的绿色土壤修复科技
- 实用科学技术用以实现可见成效

Earthmaster是一家环境服务企业，负责管理与修复农业、工业和油气行业的污染土地。我们的专长包括：

- 场地评估与土壤修复
- PEPSystems 植物修复

我们研发了世界领先的植物修复技术PEPSystems™，用于修复被碳氢化合物，盐和重金属污染的土壤，该项绿色修复技术已在科学和商业实践上得到了证实。

Earthmaster可提供修复经验与个人服务，以协助处理复杂的土壤污染问题。

商业目标

我们期望与农业、工业和油气行业的企业建立联系，使用我们的PEPSystems™技术进行土壤修复。

联系方式

Amber Flamand 业务发展部副总裁

+1-403-510-3851

earthmaster.enviro@outlook.com

微信号: Gilley73

Adam Dunn 运营部副总裁

+1-403-899-5587

earthmaster.enviro@outlook.com

微信号: DunnAdam

www.earthmaster.ab.ca

Manz Engineering Ltd.



- Unique back-washable slow sand filters
- Water treatment for households and municipalities

Manz Engineering Ltd. manufactures and markets unique slow sand filters that may be cleaned using a backwash process. The filters are used similar to traditional slow sand filters using the BioSand Filtration process or as polishing filters to remove suspended particles including oxidized iron, manganese and arsenic. Municipal scale units have capacities to 16,000 L/h and are constructed using stainless steel. Household filters use plastic construction with capacities ranging from 12 L/h to treat water in developed and underdeveloped communities and emergency situations.

Business Objectives

Manz Engineering Ltd. is looking to partner with companies to manufacture and market its technology worldwide. Licensing opportunities available.

Contact

Dr. David H. Manz, President

+1-403-889-4562

davidmanz@shaw.ca

www.manzwaterinfo.ca

www.cabincleanwaterfilter.com

Manz Engineering Ltd.



- 独特的慢反冲洗砂石过滤器
- 家庭与城市水处理

Manz Engineering Ltd.生产并销售独特的慢砂过滤器,可使用反冲洗工艺进行清洗。该产品类似于使用BioSand过滤工艺的传统慢砂过滤器或是抛光过滤器,可用来去除氧化铁,锰和砷的悬浮颗粒。市政规模的产品单元的处理能力达到16,000升/小时,采用不锈钢制造。家用过滤器采用塑料构造,处理能力可达12升/小时,也可用以处理发达和欠发达社区的日常水处理或紧急处理等情况。

商业目标

Manz Engineering Ltd.期望与中方企业合作,在全球范围内制造并销售我们的技术,同时我们提供许可机会。

联系方式

Dr. David H. Manz 总裁

+1-403-889-4562

davidmanz@shaw.ca

www.manzwaterinfo.ca

www.cabincleanwaterfilter.com

McMillan-McGee Corp.

- Soil remediation systems
- In-situ thermal soil remediation
- Electrothermal, steam, thermal conduction

McMillan-McGee Corp. designs and manufactures proprietary soil decontamination systems for the removal of hazardous organic chemicals and VOCs from the soil and groundwater. ET-DSP™ uses electrical resistance heating and is capable of removing more than 99% of the contaminants. It has been proven to be many times more efficient than conventional vapor extraction at half the cost. IT-DSP™ is an advanced, high-temperature, thermal conduction heating system. It allows the efficient treatment of sites where both VOCs and higher boiling point compounds such as PCBs, pesticides and PAHs are targeted for clean-up.

Business Objectives

Meeting potential clients/partners in the field of soil remediation.

Contact

Jessie Zhang, Manager, Business Development China

+1-403-569-5121

jzhang@mcmillan-mcgee.com

WeChat ID: yoyosure

www.mcmillan-mcgee.com

McMillan-McGee Corp.

- 土壤修复系统
- 原位热修复
- 电热 – 蒸汽 – 热传导

Mc2设计并制造专业的土壤净化系统，从土壤和地下水上去除有害的有机化学物质和挥发性有机化合物。ET-DSP™ 是电阻加热技术，能够去除超过99%的污染物。该技术已被证明能够以一半的成本投入实现比传统蒸汽提取更有效的成果。IT-DSP™工艺是一项先进的高温热传导加热系统。IT-DSP™能够有效修复包含挥发性有机化合物、农药和多环芳烃高沸点化合物的污染场地。”

商业目标

我们希望会见土壤修复领域的潜在客户或合作伙伴。

联系方式

张朔, 大中华区业务经理

+ 1-403-569-5121

jzhang@mcmillan-mcgee.com

微信号: yoyosure

www.mcmillan-mcgee.com



- Soil and groundwater remediation
- Oil sludge extraction and recovery

TRIUM Environmental Inc. (TRIUM) is the premier remediation technology provider that combines an innovation and commercialization platform with service-based business models to integrate our unique remediation expertise.

Since 2006, our identity remains founded on integrity with purposeful specialization to innovate technologies in collaboration with international partners.

The four main remediation technologies offered include thermal extraction and recovery for oil sludge/POPs/pesticides/contaminated soil, heavy metal remediation and stabilization, and chemical oxidation approaches.

Business Objectives

Strengthen our relationships with existing Chinese partners and develop new client and project opportunities through collaboration options.

Contact

Jevins Waddell, President

+1-403-669-4158

jwaddell@triuminc.com

WeChat ID: Jevins_Waddell

B.J. Min, CEO

+1-403-510-1190

bjmin@triuminc.com

WeChat ID: bjmin68

www.triuminc.com



- 土壤与地下水修复
- 油污泥提取与回收

TRIUM Environmental Inc. (TRIUM) 是首屈一指的修复技术供应商。我们独特的修复技术融合了创新和商业化平台, 采用以服务为基础的商业模式以提供一体化的独特的土壤修复专业技术。自2006年以来, 公司一直以诚信为本, 有针对性地专业化创新技术, 并积极与国际伙伴展开合作。我们拥有的四项主要修复技术包括: 低耗能热提取和油泥/污染的土壤恢复; 重金属修复和 定; 土壤清洗以及化学氧化。

商业目标

加强我们与中国现有的合作伙伴关系, 通过合作方案开拓新的客户和修复项目机会。

联系方式

Jevins Waddell 总裁

+ 1-403-669-4158

jwaddell@triuminc.com

微信号: Jevins_Waddell

B.J. Min, 首席执行官

+1-403-510-1190

bjmin@triuminc.com

微信号: bjmin68

www.triuminc.com



Virtual Alberta Exhibitors

Airborne Clean Energy

- Emissions reduction technology for coal-burning plants

The Airborne System is a multi-pollutant control technology that enables coal-burning plants to cost effectively stay ahead of stringent regulations.

By using sodium scrubbing and oxidants, the Airborne System removes a higher percentage of pollutants than traditional limestone systems for lower capital and operating costs than other technologies. The pollutants are separated from the sodium bicarbonate to manufacture revenue-generating agricultural fertilizers. We then regenerate the scrubbing reagent for continuous reuse in the pollution removal process, which significantly lowers operating costs.

Our coal catalyst optimizes combustion conditions in the boiler to reduce fuel and operating costs, improve reliability and reduce emissions formation.

Business Objectives

We design cost-effective and customized solutions for power plants and industrial processes. Coal-fired power plants, steel plants, cement plants, and thermal plants are among the variety of end-users that can benefit from the Airborne System.

Contact

Murray Mortson, CEO

+86-13466688305

m.mortson@airbornecleanenergy.com

WeChat ID: mortyski

Dr. Michael Zhao, President, Airborne China Limited

+86-13910538135

WeChat ID: wxid_6218402187111

www.airbornecleanenergy.com

www.airbornechina.com

Airborne Clean Energy

- 燃煤电厂减排技术

Airborne系统拥有多污染物控制技术，使燃煤电厂能够在严格的环保规定下有效地保持成本领先地位。

与传统的石灰石体系相比，Airborne系统通过使用擦洗钠和氧化剂去除更多的污染物，降低资本和运营成本。污染物从碳酸氢钠分离以制造肥料进行创收。我们能够在去除污染的过程中回收利用擦洗剂，从而显著降低运营成本。

我们的煤催化剂能够优化锅炉燃烧条件，减少燃料和运营成本，提高运营可靠性并减少排放。

商业目标

我们为发电厂和工业流程设计具有性价比的定制解决方案。煤电厂、钢铁厂、水泥厂和火电厂均可采用Airborne系统。

联系方式

Murray Mortson, 首席执行官

+ 86-13466688305

m.mortson@airbornecleanenergy.com

微信号: mortyski

克尔·赵博士 Airborne中国总裁

+ 86-13910538135

微信号: wxid_6218402187111

www.airbornecleanenergy.com

www.airbornechina.com

Baleen International Inc.

- Water/wastewater treatment and management solution
- Energy from waste

Baleens Energy from Waste Infrastructure accepts all manner of liquid and solid waste well beyond biogas potential in a revolutionary “sustainable populations without waste” model centered on a much-needed circular economy for water.

Baleen is an engineered adaptation of the natural technique used by the class of filter-feeding whales of the same name, with novel counter-clearing flow principles that sustain filtration without need for downtime, aptly recovering virtually all waste from wastewater. UTOC is a simple two-stage thermal process that, without requirement for supplemental fossil fuel or thermal energy, vaporizes and oxidises all organic fractions with a stoichiometric quantity of air without release of carbon monoxide or contentious ash.

Business Objectives

- Develop, refine, and execute on business strategies
- Explore the value-added opportunities for the water filtration and wastewater reuse and recycling in the market
- Challenge currently accepted technologies whilst increasing financial and environmental benefits

Contact

David Dooley, President

+1-780-460-1036

david@baleeninternational.com

www.baleeninternational.com

Baleen International Inc.

- 水处理/废水处理与管理解决方案
- 从废弃物获取能量

Baleens Energy专注于废弃物基础设施领域，能够处理各种难于转换为沼气的液体或固体废弃物，以革命性的“无废弃物的可持续发展”模式，强调目前急需的废水循环经济。

Baleen技术是对同名的过滤捕食鲸鱼所使用的天然过滤技术进行改造而设计的，采用新型的反清流动原理，可在不需要停机的情况下维持过滤，几乎可以回收废水中的各类废弃物。UTOC是一项简单的两阶段热工艺，无需补充化石燃料或热能，以化学计量要求的空气量蒸发并氧化所有有机成分，且不会排放一氧化碳或是有争议性的灰分。

商业目标

- 制定，完善并执行我们的业务战略
- 探求中国市场中水过滤和废水再利用、再循环的增值机会
- 挑战目前已有的水过滤技术并同时增加财务收益与环境效益

联系方式

David Dooley 总裁

+1-780-460-1036

david@baleeninternational.com

www.baleeninternational.com

BioRefinex Canada Inc.

- Waste processing to organic fertilizer
- Biogas to RNG or electricity

BioRefinex is in the business of generating value-added products from organic waste materials such as animal by-products, deadstock, food and food processing waste, livestock manure and other organic residual materials. It is commercializing the patented BioRefinex thermal hydrolysis technology that can safely transform disease-risk animal material into certified high-grade organic fertilizer and feedstock for biogas production to be used to produce renewable natural gas or renewable electricity. BioRefinex and its parent R&D company, Biosphere Technologies, hold patents in nine countries.

Business Objectives

The company is seeking strategic and/or financial partners to pursue project opportunities (through joint-venture or licensing) in China.

Contact

Chris Thrall, President and CEO

+1-403-705-1720

chris.thrall@biorefinex.com

WeChat ID: ChrisThrall

www.biorefinex.com

BioRefinex Canada Inc.

BioRefinex采用动物副产品、死畜、食品和食品加工废弃物、家畜粪便和其他有机残料和废弃物作为原材料产生增值产品。公司正在实现BioRefinex热水解专利技术的商业化。该技术可以安全地将患病动物原料转化为经认证的高级有机肥料和沼气生产原料，用于生产可再生能源。BioRefinex及其专利技术研发公司BiosphereTechnologies在九个国家持有专利。

商业目标

我们寻求战略和/或资金合作伙伴以在中国寻求项目机会（通过合资或许可的方式）。

联系方式

Chris Thrall 总裁兼CEO

+1-403-705-1720

chris.thrall@biorefinex.com

微信号: ChrisThrall

www.biorefinex.com

Delta Remediation Inc.

- Environmental remediation
- Bioremediation technology

As innovators of environmental solutions, Delta Remediation provides cost-effective environmental solutions through proven science and advanced processes. Delta delivers four key environmental products: BioLogix Hydrocarbon Degradar, BioLogix Surfactant, BioLogix Salt Binder Technology and BioLogix Odor X-IT.

Delta's microbial products contain purified, naturally occurring bacteria and Archaea. The specified strains chosen have the ability to aggressively breakdown petroleum hydrocarbons and sludge to carbon dioxide and water. In certain soil applications, dynamic surfactants are added to aid in accessibility of the microbes to difficult pockets of contamination. Delta's microbial products are highly effective in both soil and water (surface and groundwater) applications.

Business Objectives

Delta Remediation is excited to enter the Asian marketplace for remediating contaminated soil and water as the need for remediation solutions grows. Delta aims to develop a team of strategic Chinese partners with forward-thinking organizations looking to save costs, reduce liabilities and carbon emissions by using Delta's on-site treatment process.

Contact

Rob Lacey, President

+1-250-575-2001

rlacey@deltaremediation.com

www.deltaremediation.com

Delta Remediation Inc.

- 环境修复
- 生物修复技术

作为环境解决方案的创新企业，Delta Remediation通过成熟的科技与先进工艺提供具有成本效益的环境解决方案。我们拥有四项主要环保产品：BioLogix Hydrocarbon Degradar（降解），BioLogix Surfactant（表活），BioLogix Salt Binder Technology（盐基离子结合）and BioLogix Odor X-IT（异味消除）。

我们的微生物产品含有纯化的天然细菌和古细菌。选择的指定菌株具有将石油烃和污泥积极分解为二氧化碳和水的功能。在某些土壤修复应用中，添加动态表面活性剂可以帮助微生物接近难以进入的污染部位。Delta的微生物产品在土壤和水（地表水和地下水）应用中都非常有效。

商业目标

随着亚洲对修复解决方案需求的增长，Delta Remediation非常高兴能够进入亚洲市场修复受污染的土壤与水。我们致力于寻找战略性的中方合作伙伴使用我们的土壤修复现场处理工艺，与具有前瞻性思维的企业合作，共同寻求节约成本，减少负债与碳排放。

联系方式

Rob Lacey 总裁

+1-250-575-2001

rlacey@deltaremediation.com

www.deltaremediation.com

Nelson Environmental Remediation Ltd.

- Soil remediation
- Thermal desorption equipment

NELSON provides onsite thermal remediation of hydrocarbon-contaminated soil, employing the best available thermal desorption technology and support equipment to deliver full-service soil remediation. NELSON delivers “Clean Dirt, No Doubt!” for clients with contaminated sites. NELSON mobilizes thermal desorption units (TDU) for the thermal treatment of soil at the site of origin. NELSON provides all personnel and equipment necessary to perform all aspects of excavation, remediation and site reclamation as the client requires.

NELSON eliminates liability associated with contaminated soils through extraction and destruction or recovery of toxic organic compounds, preserving and converting soil from toxic liability to valuable asset for reuse as the client desires, while ensuring no toxic emission to the environment occurs.

Business Objectives

NELSON is engaged in developing the China market for site decontamination. We aim to develop relationships with stakeholders in need of our expertise and technology for large-scale soil remediation projects across China for all industries demanding a robust and responsible method for remediation of soil with organic contamination.

Contact

Darryl Nelson, President

+1-780-960-3660

+1-780-719-9830

dn@NERglobal.com

WeChat ID: Clndirt

David Song, China Business Development Manager

+86-130 9598 6259

+1-780-718-0377

Song@NERglobal.com

WeChat ID: redstag

www.NERglobal.com

Nelson Environmental Remediation Ltd.

- 土壤修复
- 热脱附装备

NELSON采用最好的热解吸技术和辅助设备，对碳氢化合物污染土壤进行现场热修复，提供全面的土壤修复服务。

NELSON向有污染场地的客户保证“清洁泥土，毫无疑问！”。NELSON运用热解吸装置（TDU）对原场地的土壤进行热处理。NELSON可根据客户的要求，提供挖掘、修复和场地复垦等各方面工作所需的一切人员和设备。

NELSON在确保不会对环境产生有毒排放的同时，通过提取、销毁或回收有毒有机化合物以修复场地，并将土壤中的有毒物质转化为有价值资产以供客户按其需求再行利用。

商业目标

NELSON期望发展其在华污染场地修复的市场。我们希望与需求NELSON专业知识和技术的利益相关者发展合作关系，以便为各个行业的大型土壤修复项目提供强有力且负责人的土壤有机污染修复方案。

联系方式

Darryl Nelson 总裁

+ 1-780-960-3660

+ 1-780-719-9830

dn@NERglobal.com

微信号：Clndirt

宋大卫 中国区业务拓展经理

+ 86-130 9598 6259

+ 1-780-718-0377

Song@NERglobal.com

微信号：redstag

NERglobal.com

Solstice Canada Corp.

- Remediation site management
- Contaminated site investigation

Solstice Canada Corp. (Solstice) is a leader in environmental services. We have been working in Western Canada for more than 15 years. Solstice is a company of scientists and innovators that help industry, business and governments address soil and water contamination.

We work with our local partner, Shanghai AOJOA Ecology and Environment Technology Co., Ltd., to complement their expertise and support environmental projects. Solstice has worked on more than 2,500 contaminated sites. We have lead a variety of projects including environmental assessments, remediation planning and management, land use planning, construction planning, soil and vegetation restoration, regulatory permitting, environmental policy development, and liability assessment for asset and property acquisitions and asset retirement obligations.

Our extensive experience in the Canadian upstream oil and gas environmental market allows us to accelerate the success of your projects and avoid making the same mistakes that we made in Canada when our market was at its infancy.

Business Objectives

- To work in China in support of our strategic partner Shanghai AOJOA Ecology and Environment Technology Co., Ltd. to offer environmental services.
- To develop a business relationship with current operators and prospective investors in Canada's energy sector.
- Ideal Industries/buyers/partners include: natural resources, energy, oil and gas, mining, municipalities, transportation and property developers.

Contacts

Michelle Cotton, President

+1-780-777-9078

mcotton@solsticecanada.com

Garry Ogletree, Director Asia Pacific

+1-780-777-6343

golgetree@solsticecanada.com

www.solsticecanada.com

Solstice 加拿大公司

- 场地修复管理
- 污染场地调查

Solstice 加拿大公司 (Solstice) 是环保服务领域的领头羊，已在加拿大西部开展业务15年之久。

Solstice拥有众多科学家和创新人才，帮助行业内相关企业和政府解决土壤和水污染问题。

我们与中国当地合作伙伴上海傲江生态环境科技有限公司合作，补足他们的专业知识并为各项环保项目提供支持。Solstice公司已处理了2500多个受污染地块。我们主导的项目包括环境评估、修复规划和管理、土地利用规划、建设规划、土壤和植被恢复、监管许可、环境政策制定、有关资产和财产收购以及资产弃置义务的责任评估等。

我们在加拿大上游油气环境市场拥有丰富的经验，这使得我们能够协助贵公司更迅速地完成项目，避免重复我们成立初期在加拿大市场遇到的问题 and 困难。

商业目标

- 在我们的战略合作伙伴上海傲江公司的支持下在中国开展业务并提供环境服务。
- 与加拿大能源行业的现有运营商和潜在投资者建立业务联系。
- 理想行业/客户/合作伙伴包括自然资源、能源、油气、采矿、市政、交通和房地产开发商等。

联系方式

Michelle Cotton, 总裁

+1-780-777-9078

mcotton@solsticecanada.com

Garry Ogletree, 亚太地区总监

+1-780-777-6343

golgetree@solsticecanada.com

www.solsticecanada.com

Sulphur Recovery Engineering

- Claus sulphur recovery unit specialists
- On-site chemical testing lab

Since 1998, Sulfur Recovery Engineering (SRE) has helped oil refineries and gas plants operating Sulfur Recovery Units (SRUs) to cut costs, reduce emissions, and optimize performance. Special equipment and proprietary methods allow SRE to conduct on-site check-ups on sulfur recovery units and deliver immediate lab results. SRE uses data collected on site and special process simulation software to optimize the client's SRU and upstream process units without losing valuable production time. SRE's "Laboratory-in-a-Box" technology and "Next-Flight-Out" service allow our teams to be almost anywhere in the world within 24 hours to assist clients with troubleshooting and other emergencies.

Business Objectives

SRE's objectives in the China market are to offer the same level of service we offer in other markets to Chinese operators of Sulfur Recovery Units. Our services usually have a payback period of less than one year and we would like to work with our first Chinese client by Q2 2020.

Contact

Don Green, Director, Business Development

+1-403-226-5951

info@sulfurrecovery.com

www.sulfurrecovery.com

Sulphur Recovery Engineering

- 克劳斯法硫回收装置专家
- 现场化学测试实验室

自1998年以来，我们的硫回收工程 (SRE) 已帮助炼油厂和燃气厂运行硫回收装置 (SRU) 以降低成本，减少排放并优化性能。我们的特殊设备和专有工艺允许硫回收工程对硫回收装置进行现场检查，并立刻提供实验室结果。SRE使用现场收集的数据与特别的过程模拟软件来优化客户的SRU以及上游工艺装置，而无须浪费宝贵的生产时间。此外，我们的SRE工程采用便携的“盒中实验室”技术，同时我们可以提供“下一航班”的快速响应服务，使我们的团队能够在24小时内到达世界任何地方，以协助客户排除故障或解决其他紧急情况。

商业目标

我们的SRE工程在中国市场的目标是中方运行SRU装置的企业提供与全球其他市场相同的高质服务。我们的服务通常的投资回收期不到一年，我们期望在2020年第二季度前能够与第一个中国客户展开合作。

联系方式

Don Green 业务发展总监

+1-403-226-5951

info@sulfurrecovery.com

www.sulfurrecovery.com

- Earthquake Monitoring Hardware
- Vibration Sensing for Artificial Intelligence

Symroc is a technology and engineering company based in Alberta, Canada. Symroc's R&D team has developed Ultra-Wide Broadband Seismic/Vibration Sensing Technology, with a maximum detection bandwidth capacity of 0.01Hz to 1600Hz.

The ultra-wide detection overcomes the bandwidth limitations, signal to noise ratio limitations, wave attenuation and phase distortion issues of common instruments, providing exceptional quality and high-resolution data for advanced monitoring and analysis. The field systems utilize low power designs with integrated GPS, accurate clock trimming, and long range real-time IOT data transmission for remote location applications.

This technology provides potential solutions to many application areas including earthquake monitoring, resource exploration and production monitoring, fracking operation monitoring, induced seismicity monitoring, structure health and railway vibration monitoring, equipment reliability improvement, etc.

The technology can provide a vibration and seismic monitoring systems platform to develop multiple detail field arrangements for potential client applications. The system is IOT/AI ready, and is quite possibly the most technologically advanced ultra-wide broadband vibration/seismic monitoring system in the world.

Business Objectives

- Product marketing
- Sales to government customers
- Investment

Contact

Wilson Howe, President and CEO

+1-403-807-8902

wilsonh@symroc.com

www.symroc.com

- 地震监测硬件
- 应用人工智能的震动传感

Symroc 是一家总部位于加拿大阿尔伯塔省的工程及科技公司。Symroc 的研发团队开发了超宽频地震/振动传感技术,最大检测带宽范围为0.01Hz 至1600Hz。

该超宽频检测克服了常见地震/震动仪器的带宽限制,信噪比限制,振幅衰减和相位失真问题,为高精度勘探,监测和趋势分析提供了卓越的质量和高分辨率数据。该系统集成GPS 功能和低功耗

设计,精确的时钟修正,以及远程无线数据传输功能,拥有远程应用的能力。

此技术为自然地震/诱导地震监测,压裂监测,结构,铁路检测和机械设备震动监测等多个应用领域提供了潜在的解决方案。

系统设计可以提供振动/地震监测系统平台,为潜在的客户应用开发多种细节的现场运作方式。技术应用很有可能成为世界上技术最先进的超宽带振动/地震监测系统。

商业目标

- 产品营销推广
- 面向政府客户销售
- 商业投资

联系方式

Wilson Howe, 总裁兼首席执行官

+1-403-807-8902

wilsonh@symroc.com

www.symroc.com

Terralog Technologies Inc. (TTI)

- Clean energy geomechanics
- Sustainable resource development

Terralog Technologies Inc. (TTI) is a service company headquartered in Calgary, Canada, specializing in the development and implementation of innovative technologies for sustainable resource development. TTI's area of expertise is clean energy geomechanics.

TTI has developed an innovative, long-term, sustainable, hydraulic fracturing (HF) process called Slurry Fracture Injection (SFI). The SFI process has multiple applications, including environmentally sustainable deep well disposal. In deep well disposal applications, SFI has a proven environmental record of "Zero Discharge" waste disposal, with no impact on the biosphere. The SFI technology has been proven to be a viable and safe permanent waste disposal method.

Business Objectives

Strengthen our relationships with existing Chinese partners and develop new client and project opportunities through collaboration options.

Contact

Guowei Xia, Project Development Engineer

+1-403-216-4738

+1-403-473-7599 (international mobile)

guoweix@terralog.com

www.terralog.com

Terralog Technologies Inc. (TTI)

- 清洁能源地质力学应用
- 可持续资源开发

Terralog Technologies Inc. (TTI) 是一家环境服务公司，其总部设在加拿大卡尔加里。公司致力于可持续资源开发创新技术的开发和应用，其专业领域为清洁能源地质力学。

TTI开发了一种创新的长期可持续的水力压裂 (HF) 工艺，称为泥浆压裂回注技术 (SFI)。

- SFI工艺具有多种应用性，包括环境可持续性的深井处理。在深井处理应用方面，SFI具有已验证的“零排放”废弃物处理记录，并且对生态圈没有影响。SFI技术已被证明是一种可行且安全的永久性废物处理方法。

商业目标

加强与现有中国合作伙伴的关系，并通过合作方案开发新的客户和项目机会。

联系方式

夏国威

+1 (403) 216 – 4738

+1 (403) 473– 7599 (手机)

+86–13911691463

guoweix@terralog.com

Annual industry events in Alberta

艾伯塔省各行业年度活动一览

Oil Sands Innovation Summit

June 3-4, 2019

Calgary, Alberta

www.cosia.ca/summit

油砂创新峰会

2019年6月3-4日

卡尔加里, 艾伯塔省

www.cosia.ca/summit

Remediation Technologies Symposium

October 16-18, 2019

Banff, Alberta

www.esaa.org/remtech/

修复技术研讨会

2019年10月16-18日

班夫, 艾伯塔省

www.esaa.org/remtech/

Water Week Conference

November 13-15, 2019

Banff, Alberta

<https://awwoa.ca/events/water-week>

水资源周大会

2019年11月13-15日

班夫, 艾伯塔省

<https://awwoa.ca/events/water-week>

Land Reclamation Conference

February 2020

Red Deer, Alberta

www.clra.ca/events

土地复垦会议

2020年2月

Red Deer, 艾伯塔省

www.clra.ca/events

EnviroTech Conference

April 2020

Calgary, Alberta

<http://www.esaa.org/envirotech/>

环保科技大会

2020年 4月

卡尔加里, 艾伯塔省

<http://www.esaa.org/envirotech/>