

Mundiali



Mundiali works for you

A TOTAL END TO END SOLUTION

Environmental sustainability is one of the top issues facing the world today, yet many organizations are confused about how they can continue to thrive while also paying attention to environmental issues. Mundiali is solving the very real problem of organizations needing to cut costs, enhance business processes, and be more environmentally friendly at the same time.

Mundiali distinguishes itself through our knowledge and expertise in business process. We consistently deliver unquestionable results that exceed our clients' expectations. Mundiali's ultimate goal is to provide you with a path to a sustainable and profitable future.

Certified: MBE, OMWBE, DBE, SCS, ITIL, Six Sigma, PMO, and CRE

Connecting your business to the Solutions you need

WE CAN HELP.

Management: Mundiali has in-depth knowledge in Renewable Energy Management, with relationships in emerging markets. Our consultants have expertise in economics, placement in current and future markets, environmental impacts and sustainability of incorporation.

Prior to the Industrial Revolution, biofuels powered human society. For centuries, humans used wood for heat and fats to make candles. Over the last 200 years, dramatic increases in use of coal, oil, and natural gas has brought large scale development to the world. These conventional forms of fuels are finite and have brought a dramatic rise in greenhouse gas (GHG) emissions. The detrimental effects of GHGs are changing the atmosphere that all life on the globe relies upon. Renewable fuels have the potential to decrease GHGs and other pollutants while continuing to fuel modern society.



Innovative Solutions

Breweries: The production of biofuels is gaining attention as operating costs continue to rise. Increased use of biomass is a means of curbing greenhouse gas emissions within facilities, in line with targets set by the Kyoto Protocol. Many brewing companies looking to increase profits while improving processes and cutting costs should explore the possibilities of using their own waste streams as a method of lowering energy costs with the bonus of helping them become more environmentally sustainable. During periods of low margins when the feedstock prices may be high, co-product revenues are very important to a company's bottom line. While it is true that brewing is an energy intensive process using old technologies and fossil fuels, Mundiali is working hard to change this. When brewers reduce the energy consumed by beer production, and cut the wastewater streams, it moves them toward sustainability that pays off in lower production costs and improved environments. Breweries are good candidates for combined heat and power (CHP) processes because CHP demands a large amount of consistent and predictable heat. In the brewing process steam is required during several phases, such as boiling the wort, fermentation and pasteurizing the final product. Additionally, like any manufacturing of foodstuffs, electricity is required for running the plant. Brewery processes in particular require a large amount of electricity for refrigeration, compressed air generation and pumping. Acquiring renewable systems is costly. Creating biogas and using it to its full potential requires a system tailored to the individual company. Mundiali can help



We offer Creative - Tailored Solutions:

➤ Assessments, Consulting, Program Management

THE *Mundiali* DIFFERENCE

Mundiali conducted an in-depth feasibility study and assessment of biofuels for Cache, which has agri-operations in Cumaribo Vichada, Colombia. We examined and provided consultation in biofuel resource management from the avenues of production, to placement in markets, to policy approaches with an eye towards reduction in their GHGs. Our assessment identified potential impacts of their biofuels on the environment, and provided a life cycle analysis of the biofuel and the potential changes to land-use. As a result, we helped Cache identify \$5 million in assets and focused their strategy on a 15MW electric generation plant, producing enough clean energy to support 10,000 homes.

Benefits of Mundiali Management:

- Mundiali produces small scale to micro renewable energy (RE) power centers, ensuring 24x7 power production that is clean, accessible, and affordable.
- Mundiali builds, operates, and maintains up to fifteen megawatts (15MW) of usable power.
- Mundiali is technology and vendor agnostic, delivering maximum output and minimizing cost, leveraging Solar, Wind, Biomass, Hydro, and Geothermal to name a few.
- Enhancement in the processes of conflict resolution, decision-making, shareholder involvement and partnerships.
- We connect the market mechanisms for emerging large producers of RE and the potential of the global market.
- Our Assessments provide environmental and economic impact studies benchmarking various sectors of the world.

About the Assessment:

The Mundiali Assessment focuses on "doing things right" and provides a clear measurable path to sustainable practices. It is a business intelligence report that can be leveraged as a tool and will serve as a benchmark and formal study to align processes with business goals and reduce risk.

The report provides intelligence regarding environmental and economic impacts, risks, and recommended courses of action. It provides, through a cost benefit analysis (CBA), what the return on your investment will be as well as the long term implications of your carbon output. We identify areas of opportunity in processes and recommend how to better utilize resources.

The assessment is a collaborative effort that will focus on specific objectives and realistic time-bound goals. Mundiali produces an in-depth report with SMART objective results. Our consultants review the findings with the client. The report includes recommended solutions and creative options.

Mundiali approaches the assessment from a project perspective because we understand the challenges associated with sustainable development. This means that all project management principles are applied and measured. The result: a green service organization.

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