



BOTTLED WATER SUCCESS GUIDE

Written for entrepreneurs entering the bottled water business in the U.S or Abroad



norlandintl.com

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About Norland International

Norland International is the leading water equipment manufacturer, providing turnkey bottled water facilities across the globe for over 30 years. Our experience allows us to provide reliable equipment designed and assembled in the USA. With a focus on quality materials and creative engineering, we develop custom water equipment solutions to fit our client's needs. At Norland International, we don't just sell bottled water equipment, we develop lasting partnerships and offer a proven formula for success. We are fully invested in your business's growth from the initial start-up to your equipment's ongoing maintenance. You can always count on us to provide the specialty equipment, services, and expertise you need to succeed.

We provide a full range of bottled water plants tailored to meet any business need, from high-volume production to specialized bottled beverages. Our highly experienced team makes sure your plant runs safely, efficiently, and at its full capacity. With Norland International, you always get personalized service, quality assurance, and fully customizable water bottling equipment.

Our Philosophy

The bottled water industry began its rapid growth in the late 1970s, driven by two key factors: concerns over public water quality, highlighted by the U.S. Safe Drinking Water Act, and the demand for alternatives to sugary soft drinks. This growth was largely captured by major companies like Source Perrier, Coca-Cola, and Pepsi, which quickly expanded in large urban markets.

Historically, smaller and remote communities struggled to establish local bottling facilities due to high equipment costs. Norland's innovative solutions now enable these communities to set up small-scale bottled water plants, providing local, fresh water while reducing reliance on distant suppliers.

As fuel and transport costs rise, the demand for locally produced bottled water is expected to increase, making small bottling plants an appealing opportunity for entrepreneurs worldwide.

Our Mission

Norland International will drive cutting-edge innovations and industry-leading service to ensure bottled water industry entrepreneurs can maximize their opportunities to succeed.



Brief Overview of the Bottled Water Industry

The bottled water industry, both domestic and globally, has experienced substantial growth in the past 50 years. This has been driven by key factors such as personal health awareness, the need for clean drinking water, convenience, and alternative beverage choices.

Bottled water has become a leading beverage of choice for both adults and the youth of today.

Importance of Clean Drinking Water

Clean drinking water is vital for good health and plays a crucial role in body functions such as digestion, blood circulation, and temperature regulations.

Access to safe and clean drinking water is a fundamental human right and necessity, yet millions globally and domestically still lack access to this basic human element.

Ensuring access to clean drinking water is not only a matter of health but is also a key driver in social equality and economic growth.

Purpose of the Guide

The purpose of the “Success Guide” is to serve as a comprehensive resource for individuals seeking to thrive in the bottled water industry.

This guide will outline the marketing strategies, best practices, and various insights into the bottled water industry including market analysis, branding, distribution, production practices, supply chain, and current trends.

Before we begin, let’s touch on the various water sources as these will be referenced throughout the guide.

Water Sources to Consider

Spring Water

Description: Spring water comes from natural underground sources that flow to the surface naturally. Often located in protected environments, this water is typically rich in minerals and has a distinct taste due to its mineral content.

Treatment Requirements: Minimal treatment is usually needed if the source is well-protected. However, filtration and disinfection may be applied to ensure safety and consistency.

Well Water

Description: Well water is drawn from underground aquifers through drilled wells. It can vary widely in mineral content and quality depending on the location and depth of the aquifer.

Treatment Requirements: Filtration, disinfection, and possibly mineral adjustment are often required to ensure it meets bottled water standards.

Municipal (Tap) Water

Description: Municipal water comes from a city or local water supply, which typically meets public drinking water standards. This source is reliable but may contain chlorine, fluoride, and other treatment chemicals.

Treatment Requirements: Typically involves advanced treatment like reverse osmosis (RO) or distillation to remove any additives and to meet bottled water standards. Minerals may be reintroduced for taste and quality.

Surface Water (Lakes, Rivers, and Reservoirs)

Description: Surface water sources include rivers, lakes, and man-made reservoirs. Because they are exposed to the environment, they can contain higher levels of organic matter, microbes, and other contaminants.

Treatment Requirements: Extensive treatment, such as filtration, UV disinfection, and RO, is often required to make this source safe and suitable for bottling.

Glacial and Iceberg Water

Description: Sourced from melting glaciers or icebergs, this water is generally very low in minerals and total dissolved solids. It's valued for its purity but can be challenging and expensive to source.

Treatment Requirements: Minimal treatment, mostly for filtration, but testing for contaminants is essential to ensure safety.

Desalinated Seawater

Description: Desalination plants convert seawater into fresh water, making it an option in areas with limited freshwater sources. The process is energy-intensive and costly.

Treatment Requirements: Desalinated water must be purified through RO or distillation, and minerals may need to be added back for taste and health.

Rainwater

Description: Collected from rain, this water source is relatively pure but may contain airborne pollutants or contaminants from collection surfaces.

Treatment Requirements: Filtration, disinfection, and sometimes mineral addition are necessary to ensure safety and palatability for bottling.

Each of these sources has unique advantages and challenges, so the choice depends on factors like availability, location, cost, and target market.

Norland Solutions: Whatever your water source, Norland offers a full range of water treatment solutions—including filters, distillers, RO systems, and mineral injection systems—to ensure your water meets your exact requirements.

Global Market Trends in the Industry

Premium Products: There's a rising demand for premium bottled water products, such as mineral, spring, and artesian water, which are often marketed based on their source and purity.

Functional Water: Consumers are increasingly interested in bottled water that offers additional health benefits, such as electrolyte-enhanced, vitamin-infused, or alkaline water.

Advanced Filtration Systems: Innovations in filtration technology are improving the quality and taste of bottled water.

Online Sales: The convenience of online shopping is driving the growth of bottled water sales through e-commerce platforms, including subscription services for regular delivery.

Direct-to-Consumer Models: Brands are increasingly adopting direct-to-consumer models to build stronger relationships with customers and offer personalized products.

Hydration Awareness: Rising awareness of the importance of hydration for health is boosting bottled water consumption, particularly among health-conscious consumers.

Natural Ingredients: Consumers are seeking water products with natural additives, such as fruit infusions and herbal extracts, that offer perceived health benefits.

Personalized Labels and Bottles: Offering customized labels and bottles for events, businesses, and personal use is becoming a popular trend.

Flavor Customization: Some brands are allowing consumers to customize the flavor and nutrient content of their bottled water.

Rival Beverages: The bottled water market faces competition from alternative hydration beverages such as coconut water, flavored seltzers, and sports drinks.

Innovation in Beverage Options: To stay competitive, bottled water brands are innovating with new flavors, additives, and packaging options.

Transparency in Labeling: Consumers are demanding clearer labeling regarding water source, mineral content, and treatment processes.

Norland Solutions: Norland provides a wide range of equipment for mixing additives like flavors, minerals, CBD oils, extracts, and other beverage enhancements. Alongside production machinery, Norland offers labeling solutions and access to an extensive network of industry experts, helping you customize and elevate your beverage brand.

Factors Influencing Regional Variations in Consumption

Local Water Quality: Regions with poor tap water quality or limited access to potable water see higher bottled water consumption.

Economic Development: Higher disposable incomes in developed regions lead to a greater demand for premium and functional water products.

Cultural Preferences: Cultural attitudes towards health, wellness, and convenience influence consumption patterns.

Environmental Awareness: Regions with higher environmental consciousness show greater demand for sustainable and eco-friendly bottled water options.

Regulatory Environment: Strict regulations on water quality and packaging can influence consumer trust and product availability.

Growth Projections

Market Size: The global bottled water market was valued at approximately \$283 billion in 2022 and is expected to reach around \$500 billion by 2030.

CAGR: The industry is projected to grow at a compound annual growth rate (CAGR) of about 7-8% from 2023 to 2030.

Regulatory Environment – FDA Regulations in the U.S. Market

Bottled water, like all food products, are fully regulated in the US by the US Food and Drug Administration - FDA.

The FDA regulations for bottled water are designed to ensure safety and quality of the product to the consumer.

FDA regulations cover various aspects of the product including source water, processing standards, labeling requirements, and good manufacturing practices. The FDA sets specific standards for different types of bottled water, such as purified, spring, mineral, or flavored to ensure safety, consistency, and transparency to the consumer. In addition, the FDA's regulatory requirements the bottled water industry is also subject to various state regulatory requirements.

Compliance with both Federal and State regulations is essential for bottled water companies to maintain consumer trust and market access. [Here](#) is a great link to reference the federal regulations regarding the processing and bottling of bottled drinking water. The [International Bottled Water Association](#) also has a variety of useful information regarding compliance and standards.

International Standards

The World Health Organization (WHO) has established international standards and guidelines for bottled water to ensure safety and minimal quality standards.

WHO standards, similar to FDA standards, cover various aspects such as microbial, chemical, and labeling requirements. The WHO standards serve as a benchmark for governments and industry stakeholders.

Compliance Requirements

By adhering to FDA and WHO standards, bottled water manufacturers are able to demonstrate their commitment to providing safe and high-quality products that meet the global health and safety guidelines.

Compliance requirements will cover:

Source Water Protection

Source water must be protected from contamination, ensuring its safety and suitability for bottling. This includes:

- Conducting assessments to identify potential contamination sources.
- Implementing protective measures such as fencing, signage, and monitoring to safeguard the water source.

Source Water Processing Standards

Bottled water must be processed in a manner that meets or exceeds safety and quality standards. This includes:

- Treatment methods such as filtration, UV disinfection, distillation, and reverse osmosis to eliminate pathogens and impurities.
- Compliance with specific processing requirements outlined by the FDA, ensuring that the water is safe for human consumption.

Packaging and Labeling Standards

Packaging and labeling must comply with regulations to ensure transparency and consumer safety:

- Labels must accurately reflect the contents, including the type of water (spring, purified, mineral, etc.), and any minerals added.
- Packaging must be made from food-grade materials that prevent contamination and maintain the quality of the water.

Testing and Analysis Requirements

Regular testing and analysis are crucial for maintaining product safety:

- Routine microbial and chemical testing must be conducted to detect contaminants.
- Bottlers are required to follow specific testing protocols, maintaining a schedule of analyses to ensure ongoing compliance.

Federal, State, and Local Compliance

Bottled water producers must adhere to regulations at all levels:

- Compliance with federal standards set by the FDA, as well as state-specific regulations which may have additional requirements.
- Local health department regulations that govern bottling and distribution practices.
- Your dept. of agriculture is a good place to start when seeking guidance on local codes.

Recordkeeping and Documentation

Effective recordkeeping is essential for compliance and quality assurance:

- Producers must maintain detailed records of water sources, treatment processes, testing results, and distribution.
- Documentation of compliance efforts is vital for inspections and audits.

Environmental Considerations

Environmental sustainability should be a priority in bottled water production:

- Implementing practices that minimize environmental impact, such as reducing water use and waste during the bottling process.
- Using recyclable or biodegradable packaging materials to enhance sustainability and comply with environmental regulations.

Adhering to these compliance requirements not only ensures the safety and quality of bottled water but also promotes consumer confidence and environmental responsibility. Companies must stay informed about regulations and best practices to successfully navigate the bottled water industry.

Factors Influencing Consumer Preferences

Health and Wellness

Perceived Health Benefits: Consumers gravitate toward bottled water due to its association with purity, especially in areas with questionable tap water quality. Emphasizing purity through rigorous testing and transparent sourcing information (e.g., labeling exact source locations) can reinforce health benefits. Marketing can also spotlight benefits like "no contaminants," "naturally filtered," or "spring-sourced."

Functional Ingredients: With a rising demand for functional beverages, consider offering varieties infused with electrolytes, vitamins, or antioxidants. Positioning these products for specific demographics (e.g., athletes, busy professionals) can cater to health-conscious consumers. Clear communication of these added benefits (such as "Vitamin-C infused for immune support") can differentiate products and attract health-focused buyers.

Taste and Quality

Taste Preferences: Consumers often develop strong preferences based on taste, with distinct markets for spring, mineral, and purified water. Conducting taste tests and highlighting unique flavors or purity (especially for mineral or spring water with a specific taste profile) can help build brand recognition based on flavor).

Quality Perception: The perceived quality is influenced by the water's source. Highlighting the benefits of the water source, such as the mineral content of artesian water or the natural purity of spring water, can improve consumer perception. This can be coupled with visible certifications (e.g., third-party purity tests) to build trust.

Brand and Trust

Brand Loyalty: Consumers who trust a brand for its reliability and purity tend to remain loyal, which is especially true in the health and wellness sector. A consistent product experience, along with transparency about water sourcing and quality control, can build this loyalty. Providing a visible commitment to quality, such as certifications or endorsements from reputable organizations, can help establish a solid, loyal consumer base.

Marketing and Branding: Successful bottled water brands leverage powerful, relatable stories or imagery that resonate with health-conscious consumers. Campaigns focused on the brand's values (such as environmental responsibility, quality assurance, and wellness) and engaging influencers or testimonials can strengthen brand perception. Additionally, highlighting specific health or lifestyle benefits (e.g., hydration on the go, family-friendly quality) can increase appeal.

Convenience and Availability

Accessibility: Distribution is essential for bottled water brands. Ensure availability across various retail channels, including grocery stores, gyms, cafes, and online platforms. The greater the convenience, the stronger the consumer attachment to the brand. Partnering with local businesses for unique display or vending locations can enhance brand exposure.

Packaging: The choice of packaging has a significant impact on consumer preferences. Portable, recyclable options are increasingly popular, especially with the rise of environmentally conscious consumers. Brands could offer an array of packaging options, from single-serve bottles to larger, family-size containers, to address various consumer needs. Eco-friendly packaging or refill options may also appeal to the environmentally focused buyer.

Price and Value

Affordability: For price-sensitive markets, it's crucial to offer a balance between price and perceived quality. Multipack options, discounts, and loyalty programs can make bottled water more accessible without sacrificing brand quality. By strategically pricing smaller sizes or offering family-size packs, brands can cater to both individual and bulk buyers.

Value for Money: Emphasizing value through multipacks, loyalty discounts, or family-sized bottles can attract consumers looking for savings. Marketing water as "value-packed" through added nutrients or quality sourcing can increase its perceived worth, helping the brand compete with lower-priced alternatives.

Product Variety

Variety of Options: A broad product line, including options like flavored, sparkling, or functional water, appeals to diverse consumer groups. By offering variety, a brand can cater to specific preferences and even seasonal demands, such as sparkling water in summer. Additionally, packaging flavors by theme (e.g., "summer fruit flavors") can attract customers interested in novelty and variety.

Customization: Personalization, such as custom flavor options or limited-edition packaging, can appeal to consumers looking for unique experiences. Some brands even offer online customization tools, allowing consumers to build their preferred flavor profiles.

Regional and Cultural Preferences

Local Preferences: Regional marketing that addresses specific consumer concerns (e.g., emphasizing purification in areas with water quality concerns) can be effective. For example, in regions where purified water is preferred, brands could market their advanced filtration process to reassure consumers.

Cultural Trends: Aligning products with cultural trends, such as the wellness and eco-friendly movements, can resonate with modern consumers. Offering eco-conscious options or supporting environmental causes related to water conservation can enhance brand reputation among socially conscious buyers.

Safety and Regulations

Safety Concerns: By prioritizing transparency and openly sharing safety data, brands can build trust. This could include labeling with full disclosure of purification methods or batch testing for contaminants.

Regulatory Standards: Certifications from respected regulatory bodies (such as NSF International) demonstrate compliance with high standards. Clear and honest labeling about the water source, purification methods, and any added ingredients can reassure consumers about the brand's reliability and safety.

Social Influences

Influence of Social Media: Social media presence is vital for modern consumer engagement. Influencer partnerships or user-generated content (e.g., hydration challenges, eco-friendly campaigns) can be effective in reaching a younger demographic. Interactive and engaging content, like fitness challenges or sustainability campaigns, can make the brand feel part of the consumer's lifestyle.

Peer Recommendations: Encouraging reviews and testimonials from customers, either online or through brand ambassadors, can significantly influence new consumers. Platforms like Instagram and TikTok provide avenues for testimonials or challenges that increase brand visibility.

Each of these factors plays a role in building a successful bottled water brand that resonates with today's diverse and health-focused consumers. By focusing on these aspects, new brands can establish a strong market presence and meet consumer preferences effectively.

Packaging Options

Bottled water comes in a variety of packaging options that are designed to meet the consumer preference and delivery method to the consumer.

Traditional packaging for bottles ranging from 100ml to 5.0L bottles include PET bottles, glass bottles for premium packaging, along with aluminum bottles and aluminum cans that have gained in popularity.

Large format bottles that are single use or multi-use ranging from 3 gallon (11.3L) to 5 gallon (19L) typically utilize Polycarbonate bottles, PET, or less common glass.

Market Demand for Various Packaging Types

The market demand for different types of materials used is reflected in the consumer preference, industry trends, and sustainability. PET (Polyethylene Terephthalate) remains the most common and widely used material in the bottled water industry. This is primarily due to PET's affordability, light weight nature, and widespread recycling infrastructure. PET's dominance is evident in the single-serve segments and with the multi-use containers used for 3 gallon and 5 gallon water deliveries.

Glass bottles, Aluminum bottles, and Aluminum cans are growing in demand as the need for eco-friendly packaging options grows.

Norland Solutions: Norland offers a variety of PET blow molding machines for small or large format bottles. Support equipment such as bottle unscramblers, date coders, shrink systems, and large bottle rack loaders are also within Norland's suite of product offerings.

Building a Bottled Water Brand for Lasting Success

In the competitive bottled water industry, creating a distinct brand and using effective marketing are essential for attracting and retaining customers. Here's a closer look at how to build a strong brand identity, implement successful marketing strategies, and leverage social media to make a lasting impression.

Building a Strong Brand Identity

A powerful brand identity sets a bottled water company apart from competitors and establishes trust with consumers. To build a compelling brand, start by defining what makes the product unique. This could be its source, purification process, sustainability efforts, or health benefits. Highlighting these values can shape a brand's story, which helps consumers connect emotionally. Visual elements—such as logos, color schemes, and packaging design—also play a critical role in brand identity, contributing to an instantly recognizable look. Consistency across branding and messaging reinforces the brand's personality and helps it become memorable, ultimately building consumer loyalty.

Effective Marketing Strategies

For bottled water brands, effective marketing combines brand storytelling with targeted outreach. Content marketing, including blogs, videos, and informational articles, can educate consumers on the brand's benefits and values. Additionally, aligning the product with health, wellness, or eco-conscious themes can attract specific consumer demographics, such as fitness enthusiasts or environmentally aware individuals. Strategic pricing and promotion through retail partnerships and event sponsorships can also increase visibility. Consider using seasonal campaigns or limited-edition packaging for holidays and events, as these can capture attention and encourage trial purchases. In an industry where choice is abundant, creating a strong emotional appeal in marketing can be a game-changer.

Leveraging Social Media and Influencer Partnerships

Social media is a powerful tool for bottled water brands, offering a platform to reach and engage consumers. Visual platforms like Instagram and TikTok are ideal for showcasing the brand's lifestyle appeal. Sharing user-generated content, such as photos and testimonials from satisfied customers, adds authenticity and builds community around the brand. Influencer partnerships can also help amplify reach and credibility. Collaborating with fitness influencers, health coaches, or eco-conscious figures can boost brand visibility within specific target audiences. Micro-influencers, with smaller but highly engaged followings, are often especially effective for connecting with niche markets.

By focusing on brand identity, developing compelling marketing, and building an online presence, bottled water brands can create strong customer relationships. These strategies not only drive sales but foster loyalty, setting the foundation for a long-term competitive advantage in the marketplace.

Expanding Bottled Water Sales through Strategic Distribution Channels

For bottled water brands, choosing the right distribution channels is crucial for maximizing reach and visibility. Here's a breakdown of three major avenues: retail distribution, e-commerce, and partnerships with the hospitality sector.

Retail Distribution: Supermarkets and Convenience Stores

Retail distribution in supermarkets and convenience stores is one of the most effective ways to reach consumers. Supermarkets provide extensive visibility and cater to a broad audience, from families to individual shoppers. Bottled water is a staple item, and placement in high-traffic sections, such as checkout aisles or near other beverages, can drive impulse purchases. Convenience stores offer quick accessibility, appealing to consumers on the go. To succeed in these environments, consider investing in attractive packaging and strategic shelf placement. Working with distributors who have established relationships with retail chains can also help secure optimal shelf space, increasing the likelihood of reaching new customers. Additionally, promotions or bulk offers can be used to incentivize shoppers and build brand recognition.

Online Sales and E-commerce

With the rise of e-commerce, selling bottled water online has become an increasingly important distribution strategy. Platforms like Amazon, as well as dedicated e-commerce websites, provide opportunities to reach a wide audience and build direct-to-consumer relationships. Online sales enable brands to offer subscription services, allowing customers to receive bottled water on a regular basis—an approach that fosters customer loyalty. For a successful online presence, consider offering various purchase options, from single packs to bulk orders. Additionally, creating engaging product listings with detailed information, reviews, and appealing visuals can enhance the online shopping experience. Digital marketing, such as search ads or social media campaigns, can drive traffic to your online store and increase conversions.

Partnerships with Restaurants and the Hospitality Industry

Collaborations with restaurants, hotels, and other hospitality businesses can provide bottled water brands with access to a unique customer base. By supplying water for table service or mini-bars, brands can reach diners, travelers, and guests in settings that emphasize quality and experience. Hotels, especially those with a focus on wellness or luxury, often seek partnerships with premium or eco-friendly water brands, providing a mutually beneficial opportunity. Partnering with restaurants can also build brand credibility, as customers may associate the water with a positive dining experience. To foster these partnerships, approach hospitality businesses with proposals that highlight the brand's unique qualities, whether it's local sourcing, eco-friendly packaging, or health benefits.

By combining retail, online, and hospitality channels, bottled water brands can maximize their market reach and establish strong relationships with a diverse consumer base. These channels offer valuable touchpoints to grow brand awareness, loyalty, and long-term success.

Strategic Pricing for Bottled Water Brands

Setting the right price is crucial for any bottled water brand, impacting profitability and market positioning. From covering production costs to choosing the right market segment, here's how to develop a strategic approach to pricing in the bottled water industry.

Pricing Considerations: Cost of Production and Market Competition

Pricing starts with a careful analysis of production costs. Factors like water sourcing, filtration, bottling, packaging, utilities, labor and distribution all contribute to the overall cost per unit. High-quality ingredients or sustainable packaging can increase costs, so it's essential to ensure pricing covers these expenses while remaining competitive. It's also important to examine market pricing trends among competitors in similar categories. For instance, artisanal or specialty water brands may command a higher price than basic bottled water. By understanding the pricing landscape, brands can set a price point that meets both production needs and market expectations.

Premium vs. Budget Segments

Bottled water brands typically fall into either premium or budget segments, each attracting different customer bases and pricing strategies. Premium bottled water—often characterized by unique sources, added minerals, or eco-friendly packaging—appeals to consumers seeking quality or exclusivity. These brands can charge higher prices due to their value-added elements. On the other hand, budget or value-focused brands prioritize affordability and appeal to consumers looking for basic hydration. Budget brands often compete on price, which requires tight control over production costs to maintain profitability. When choosing a segment, consider your brand's unique features and target audience to ensure alignment between product, price, and consumer expectations.

Promotional Pricing Tactics

Promotional pricing can help bottled water brands gain visibility, encourage trial purchases, and build customer loyalty. Common tactics include offering discounts on first purchases, creating bundle deals, or running limited-time price reductions. Volume-based discounts, like “buy one, get one free” offers, work well for high-traffic retail environments, as they incentivize bulk purchases and can drive brand awareness. Brands targeting premium customers might consider exclusive promotions with loyalty programs or seasonal discounts for repeat buyers. For brands selling online, free shipping on bulk orders or discounted subscription rates can attract and retain customers in the long term.

By balancing production costs, selecting the right market segment, and leveraging promotional pricing, bottled water brands can develop a strategic pricing model. This approach not only attracts target customers but also supports sustainable growth in an increasingly competitive market.

Ensuring Quality in Bottled Water Production

The quality of bottled water is determined by its source, purification process, and stringent quality control measures. Here's how focusing on these areas can help bottled water brands produce a safe and desirable product.

Source Selection: Springs, Municipal Water Supplies, and Beyond

The water source is a defining factor in a bottled water brand's identity and quality. Common sources include natural springs, wells, or municipal water supplies. Spring water, which originates from natural, underground sources, is often marketed as pure and mineral-rich, appealing to consumers who prefer natural water. Well water can also be a valuable source, especially if it contains beneficial minerals. In contrast, municipal water is generally more accessible and often less costly. For brands using municipal sources, it's essential to emphasize the rigorous purification processes that ensure purity and safety. Selecting a source is not only about availability and cost but also about aligning with brand positioning. Brands aiming for a premium or health-focused market may benefit from natural sources, while budget-friendly brands might find municipal water a practical choice.

Filtration and Purification Methods

Filtration and purification are critical steps in preparing bottled water for consumers. The methods used depend on the water source and desired final quality. Common techniques include reverse osmosis, which removes contaminants and dissolved minerals, and carbon filtration, which eliminates chlorine and organic compounds for a fresher taste. For mineral or spring water, brands may opt for less intensive filtration to retain natural minerals. Vapor compression distillation is another advanced method where water is heated to create steam, which is then condensed back into purified water, removing impurities in the process. This method is effective in removing dissolved solids, bacteria, and other contaminants, ensuring high-quality water. Other methods like ultraviolet (UV) treatment and ozone disinfection kill bacteria without altering taste, ensuring safety without chemical additives. Highlighting the filtration process on labels or in marketing materials can build trust by assuring consumers of the product's purity and safety.

Quality Control Measures

Rigorously controlling quality is essential to consistently deliver safe, high-quality bottled water. This process includes regular testing for contaminants, minerals, and pH levels at multiple production stages—from the source to post-bottling. Monitoring systems, such as automated sensors and manual sampling, can ensure that each batch meets regulatory standards and company specifications. Quality control also includes maintaining hygiene in bottling facilities and ensuring all equipment is sanitized. For added assurance, brands may pursue third-party certifications, which validate the safety and quality of their product, enhancing consumer confidence.

By carefully selecting a source, applying effective purification methods, and maintaining robust quality control, bottled water brands can deliver a product that meets consumer expectations for safety, purity, and taste.

Innovation in Packaging

Trends in eco-friendly packaging

Biodegradable and Plant-Based Bottles: Some companies are developing bottles made from plant-based materials, such as polylactic acid (PLA), which can biodegrade more quickly than traditional plastics. These materials are sourced from renewable resources like corn starch or sugarcane.

Recycled PET (rPET) Bottles: Increasingly, bottled water companies are using recycled PET (rPET) to manufacture their bottles. This reduces the demand for virgin plastic and helps close the recycling loop, lowering the overall carbon footprint.

Reduced Plastic Use: Companies are innovating to use less plastic in their bottles, making them thinner and lighter. This not only reduces the amount of plastic used but also decreases the energy required for transportation.

Aluminum Cans and Bottles: Aluminum is highly recyclable and can be reused indefinitely without loss of quality. Some bottled water brands are switching to aluminum cans and bottles as a more sustainable alternative to plastic.

Glass Bottles: Although heavier and more energy-intensive to transport, glass bottles are a reusable and recyclable option that some premium bottled water brands are adopting.

Boxed Water: Water packaged in cartons made from renewable resources like paperboard is gaining popularity. These cartons often have a lower environmental footprint compared to plastic bottles and are designed to be recyclable.

Water Refill Stations: To reduce single-use plastic waste, some companies are installing water refill stations in public places, encouraging consumers to use reusable bottles instead of purchasing new ones.

Carbon-Neutral and Carbon-Positive Initiatives: Some bottled water brands are committing to reducing their carbon emissions and investing in carbon offset projects to become carbon-neutral or even carbon-positive.

Local Sourcing and Bottling: By sourcing and bottling water locally, companies can reduce the transportation emissions associated with shipping bottled water over long distances.

Plastic Offsetting Programs: Some companies are engaging in plastic offsetting, where they fund the removal of plastic waste from the environment equivalent to the amount they produce, aiming for a net-zero plastic footprint.

Eco-Friendly Packaging Innovations: Innovations such as labels that use less ink, biodegradable adhesives, and recyclable caps are being developed to make the entire packaging more sustainable.

Smart Packaging Solutions

Smart Caps and Bottles: Some companies are developing bottles and caps equipped with sensors that can track water consumption, remind users to stay hydrated, and even provide information about the water quality. These smart bottles can connect to smartphone apps, giving consumers insights into their hydration habits.

Interactive Labels: Using QR codes or NFC (Near Field Communication) technology, bottles can have interactive labels that consumers can scan with their smartphones. This can provide information on the source of the water, details about the company's sustainability efforts, and instructions for proper recycling.

Temperature-Sensitive Packaging: Some bottled water brands are experimenting with packaging that changes color based on the temperature of the water. This can help consumers know when their water is at the ideal drinking temperature without opening the bottle.

Self-Chilling Bottles: Innovative packaging solutions that allow bottles to chill themselves without the need for refrigeration are being developed. These bottles use advanced materials and chemical reactions to absorb heat and cool the water inside, which can be particularly useful in areas where refrigeration is limited.

Edible Packaging: While still in the experimental phase, some companies are exploring the use of edible packaging made from seaweed or other natural materials. These packages can dissolve in water or be consumed directly, eliminating waste entirely.

Biodegradable Smart Labels: Combining sustainability with smart technology, some companies are creating biodegradable labels that incorporate sensors or QR codes. These labels can provide interactive experiences for consumers and then biodegrade along with the bottle, reducing environmental impact.

Water Quality Indicators: Packaging that includes built-in water quality indicators can help consumers ensure that the water they are drinking is safe and pure. These indicators can detect contaminants and provide real-time feedback on water quality.

Customizable Bottles: Some smart bottles allow for customization based on consumer preferences. For example, bottles with built-in flavor pods can let users add natural flavors to their water, or bottles with adjustable spouts can offer different flow rates.

A Guide to Success in the Bottled Water Industry

Breaking into the bottled water market requires a strategic approach that considers both the strengths and weaknesses of major competitors and opportunities for differentiation. Here's a roadmap for budding entrepreneurs in this industry.

Understanding Major Competitors

Start by researching the leaders in bottled water—both globally and regionally. Global giants like Nestlé, Coca-Cola, and PepsiCo have established dominance by leveraging large-scale operations and strong branding. Smaller, regional players often cater to specific consumer preferences and niches. Analyzing these companies provides valuable insight into successful strategies and market standards. Assess their production processes, branding, and distribution methods to see what's working well and where gaps might exist that a new brand could fill.

Identifying Strengths and Weaknesses of Key Players

Successful bottled water companies often emphasize technological innovation and efficiency, using automated systems for quality control and energy savings. However, larger corporations can lack flexibility, presenting an opportunity for smaller entrants to focus on customizable options. Additionally, many industry leaders are increasingly focused on sustainability, implementing eco-friendly initiatives like recyclable packaging and reduced water waste. Nonetheless, there remains room for improvement in areas like innovative packaging solutions or carbon-neutral processes. New entrants can position themselves by excelling in these areas, resonating with today's eco-conscious consumers.

Strategies for Differentiation

Differentiation is essential to stand out in a crowded market. Branding and product identity play a critical role—unique bottle shapes, organic or enhanced water, or region-specific branding can create strong consumer appeal. Another key strategy is to focus on product quality and consistency, particularly important in the premium bottled water segment. Quality assurance and transparency about water sources and treatment methods build trust with consumers. Developing a niche can also be highly effective; options include targeting health-conscious individuals with mineral-enhanced or alkaline water, or offering sustainably sourced and packaged options. Additionally, distribution strategies are crucial. Whether you opt for direct-to-consumer delivery or focus on retail channels, accessibility is key to building consumer loyalty.

By learning from established players and implementing strategies that resonate with today's consumers, a new bottled water business can successfully carve out its own place in the industry. Prioritizing innovation, sustainability, and unique branding will give any entrant the tools needed to thrive in this competitive market.

Optimizing Operations for Bottled Water Production

Effective sourcing, logistics, and inventory management are essential components in ensuring a smooth and efficient bottled water business. By streamlining these operational areas, businesses can reduce costs, improve product availability, and scale efficiently.

Sourcing Raw Materials

Sourcing raw materials is a critical first step in bottled water production. The primary raw materials include the water source, bottles, caps, labels, and packaging. Securing high-quality water from reliable, sustainable sources is key to building a premium product. For the packaging, brands must choose between plastic (such as PET bottles) or more eco-friendly alternatives like glass or biodegradable materials. Each option presents trade-offs in terms of cost, sustainability, and consumer appeal. Additionally, securing the right suppliers for bottling and packaging materials requires careful vetting to ensure consistency and quality. Forming strong supplier relationships can also help secure better pricing and more reliable delivery schedules, ultimately improving production efficiency and lowering overall costs.

Logistics and Transportation

Logistics and transportation play a significant role in ensuring that bottled water reaches its destination on time and in good condition. Efficient transportation requires careful planning of routes, selecting the right transportation partners, and managing the shipping process to minimize costs and avoid delays. For water brands, maintaining product quality during transport is crucial. Bottled water must be handled properly to avoid breakage or contamination, especially when dealing with glass bottles or large shipments. It's also important to optimize transportation costs by consolidating shipments or using local distribution centers to reduce the distance and carbon footprint of deliveries. Real-time tracking and regular communication with transport providers can help mitigate disruptions and ensure timely deliveries to retail or distribution partners.

Inventory Management

Efficient inventory management ensures that bottled water is always available to meet customer demand while avoiding excess stock that can lead to storage issues and financial strain. Key strategies include implementing automated systems that track inventory levels in real time, allowing businesses to anticipate stock shortages and order materials or products in advance. By maintaining optimal stock levels, water brands can meet fluctuating demand without overcommitting resources. Inventory control also extends to managing production schedules and forecasting seasonal trends, which are particularly important for bottled water during summer months or special promotions. Lean inventory practices, such as just-in-time (JIT) ordering, can further optimize storage costs and reduce the risk of overproduction.

By focusing on sourcing raw materials, optimizing logistics and transportation, and implementing efficient inventory management practices, bottled water brands can streamline operations, improve profitability, and ensure that their product reaches consumers when and where they need it.

Navigating Risks and Opportunities in Bottled Water Production

Bottled water companies face a range of risks in their operations, from contamination concerns to supply chain disruptions. At the same time, there are significant opportunities in emerging markets that can be harnessed with the right strategies. Here's how companies can manage risks, seize opportunities, and navigate challenges.

Identifying Potential Risks

The bottled water industry is subject to several potential risks that can impact product safety, production, and business continuity. Contamination risks, whether from the water source, packaging materials, or the bottling process, are major concerns. Regulatory bodies enforce strict guidelines to prevent contamination, but businesses must maintain vigilance throughout production. Supply chain disruptions, such as shortages of raw materials, transportation delays, or factory closures, can also hinder operations. Environmental risks like water scarcity or local water quality issues are increasingly important, especially as consumers demand more sustainable practices. Identifying and preparing for these risks requires continuous monitoring of internal processes and external factors.

Mitigation Strategies

Mitigating risks involves taking proactive steps to prevent and address potential issues. For contamination risks, implementing robust quality control measures—such as regular testing and certification—ensures that products meet safety standards. Ensuring backup suppliers and diversifying the supply chain can reduce the impact of disruptions. In terms of environmental and sustainability risks, companies can reduce their carbon footprint by investing in eco-friendly packaging, using renewable energy in production, and implementing water conservation practices. Strategic inventory management and efficient logistics also help mitigate the effects of supply chain disruptions, ensuring that production continues smoothly even during unpredictable times.

Crisis Management Protocols

When crises occur, having established protocols in place is critical to minimizing damage and protecting the brand. In the event of contamination or a major recall, clear communication with consumers, retailers, and regulatory bodies is essential to maintaining trust. Crisis management involves having a designated response team, a communication plan, and the ability to swiftly address issues as they arise. Regular crisis simulations and training for staff ensure preparedness. A quick and transparent response not only resolves the situation but can also help restore customer confidence.

Opportunities in Emerging Markets

Emerging markets represent significant growth opportunities for bottled water brands. As populations grow and disposable incomes increase, demand for bottled water is rising, particularly in regions where clean drinking water is scarce. Companies can capitalize on these markets by tailoring their offerings to local needs, such as smaller packaging sizes or affordable pricing options. Partnerships with local distributors and retailers can help brands gain market entry and build brand awareness.

Cultural Considerations

Understanding local cultures is key to success in international markets. Packaging, flavor preferences, and marketing messages should align with the cultural values and expectations of each region. For instance, eco-friendly packaging might be more attractive in certain markets, while others may prioritize health-conscious messaging. Companies must adapt to local tastes and environmental concerns to build strong consumer loyalty.

Regulatory Challenges

The bottled water industry is heavily regulated to ensure safety and quality, and these regulations vary by country. Navigating the complex landscape of local, regional, and international laws—ranging from labeling requirements to environmental regulations—can be challenging. Staying informed and compliant is essential for avoiding fines and maintaining operational licenses. Companies should engage with legal experts to understand the regulatory requirements of each market and stay updated on any changes that might impact their operations.

Leveraging Industry Associations for Bottled Water Business Success

Joining an industry association can offer invaluable support and resources to those starting or scaling a bottled water business. From networking to staying informed, here's why becoming part of these organizations can be a game-changer.

Benefits of Joining Industry Associations

Industry associations like the International Bottled Water Association (IBWA) provide members with crucial advantages, including credibility and a stamp of quality in the eyes of consumers and partners. These associations often set rigorous standards for safety and sustainability, which can be beneficial for small or emerging brands looking to build consumer trust. Membership also helps businesses stay informed about regulatory changes, ensuring compliance with safety and environmental guidelines. Additionally, many associations offer access to certification programs, which can serve as a competitive edge in a market where consumers value transparency and accountability.

Networking Opportunities

Industry associations are also ideal platforms for networking with other professionals, suppliers, and potential clients. Events like conferences, trade shows, and workshops allow members to connect with others who share similar challenges and goals. For startups, these connections can lead to partnerships with suppliers, collaborative ventures, or insights into effective strategies. Networking within the association also opens doors to mentorship opportunities and can connect newer members with industry veterans who can provide valuable advice. Networking doesn't only build contacts; it creates pathways to shared learning and growth, which can be especially beneficial for businesses in their early stages.

Access to Resources and Industry Updates

Membership in an industry association grants access to a wealth of resources, including market research, consumer insights, and industry reports. These resources help companies understand emerging trends, such as shifts in consumer preferences, advancements in bottling technology, or new sustainability practices. Associations often distribute regular updates through newsletters, webinars, and reports, keeping members informed about industry developments that could impact their business. For bottled water companies, staying updated on topics like environmental regulations, packaging innovations, and market demands is essential for staying competitive. Additionally, some associations provide training sessions and workshops, offering members hands-on opportunities to enhance their skills and knowledge.

By joining an industry association, bottled water entrepreneurs gain more than just a membership; they access a network of peers, industry knowledge, and resources that can significantly support their growth. With these benefits, association membership is an investment in the long-term success and resilience of any bottled water business.

The Future of the Bottled Water Industry: Navigating Opportunities and Challenges

The bottled water industry is poised for significant evolution in the coming years, driven by changing consumer preferences, environmental concerns, and technological advancements. Here's a look at predictions for the industry, the opportunities and challenges that lie ahead, and strategies for companies to remain competitive.

Predictions for the Future of the Bottled Water Industry

The bottled water industry is expected to continue growing, with an increasing emphasis on health, wellness, and sustainability. As consumers become more health-conscious, demand for functional waters—such as electrolyte-infused or vitamin-enhanced options—is likely to rise. Additionally, flavored and carbonated bottled waters are gaining popularity as alternatives to sugary beverages. Furthermore, there is a rising trend toward eco-friendly packaging, particularly with the increased use of aluminum cans as a more sustainable alternative to plastic bottles. Aluminum cans are seen as more recyclable and have a smaller environmental footprint compared to traditional plastic bottles. Brands that embrace such sustainable packaging solutions, alongside responsible water sourcing practices, will likely resonate with environmentally-conscious consumers.

Opportunities and Challenges Ahead

While opportunities abound, the industry also faces challenges. The growing awareness of plastic pollution has led to increased scrutiny of bottled water products, pushing brands to find innovative ways to minimize their environmental impact. Aluminum cans present an opportunity for companies to align with sustainability trends, but they come with higher production costs and may require investment in new infrastructure. Regulatory pressures are also likely to intensify, necessitating compliance with stricter environmental standards, including packaging waste reduction and recycling initiatives. Additionally, competition from alternative beverages and home filtration systems poses a

threat to traditional bottled water sales. However, these challenges present opportunities for innovation, such as the development of new packaging solutions, enhanced purification technologies, and unique product offerings that cater to evolving consumer preferences.

Strategies for Staying Ahead of the Curve

To thrive in the changing landscape of the bottled water industry, companies must adopt proactive strategies. First, investing in research and development can lead to innovative product lines that meet consumer demands for health and sustainability, including water in eco-friendly packaging like aluminum cans. Collaborating with sustainable packaging companies and exploring alternative materials will be crucial in appealing to environmentally conscious consumers. Second, leveraging technology in marketing and distribution can enhance customer engagement and streamline operations. Utilizing data analytics can provide insights into consumer behavior, helping brands tailor their offerings and marketing strategies effectively. Finally, maintaining an agile business model that allows for rapid adaptation to market trends and regulatory changes is crucial. Establishing a strong online presence and utilizing e-commerce channels will also be essential for reaching a wider audience and responding to the growing demand for convenient purchasing options.

In summary, the future of the bottled water industry holds promising opportunities and formidable challenges. By embracing innovation, sustainability, and consumer engagement, particularly through alternatives like aluminum cans, brands can position themselves for success in an evolving marketplace.

Grand Opening Insights

Your grand opening should be memorable and impactful. Keep your space, your guests, and your goals front of mind as you plan:

- New Customer Specials – Encourage customers to buy now with exclusive, limited-time offers.
- Advertise Giveaways and Promotions – Create buzz with enticing giveaways and special deals.
- Send a Press Release – Reach out to local media, including print, TV, and radio, to spread the word.
- Leverage Social Media – Post about your event on all social media channels, create a Facebook event, and ask fans to share it.

Community Outreach

Make community involvement a cornerstone of your brand. Join your local independent business association, consider a position on a nonprofit board, and launch a philanthropic campaign. For example, you could donate bottled water to those in need, create custom labels for a group home, or supply water for a school event.

Display your branding and signage proudly, and encourage recipients to spread the word about your generosity. Hosting or sponsoring a local event is also an excellent way to build goodwill. Being an active partner in your community is nearly cost-free yet invaluable for establishing a great reputation for you and your product.

Final Thoughts and Encouragement

As we recap the key points from this guide, it's clear that the bottled water industry offers exciting opportunities, but also requires careful planning, innovation, and adaptability. Whether you're starting your own bottled water business or looking to improve an existing operation, there are several essential factors to consider ensuring success in this competitive market.

Recap of Key Points

The journey begins with understanding your market and selecting the right source of water, whether it's from a natural spring or municipal supply. The purification process is equally important, where methods like reverse osmosis, carbon filtration, and vapor compression distillation ensure a high-quality product that meets consumer expectations for purity and safety. In addition to producing great water, sustainable packaging—such as aluminum cans and eco-friendly bottles—has become an increasingly important factor for success in today's environmentally conscious marketplace. Strong quality control, strategic logistics, and effective inventory management are necessary for smooth operations. Finally, building a strong brand, adopting effective marketing strategies, and staying ahead of industry trends are all critical to long-term success.

Encouragement for Aspiring Entrepreneurs in the Bottled Water Industry

While the bottled water industry may seem overwhelming at first, it's important to remember that innovation and perseverance can set you apart. The industry is constantly evolving, and those who can adapt to consumer demands for healthier, more sustainable, and functional products will thrive. There are numerous opportunities, from tapping into emerging markets to finding creative solutions to environmental concerns. By focusing on quality, sustainability, and effective marketing, you can build a strong, resilient brand that stands out in a crowded marketplace. Remember, success doesn't happen overnight, but with passion, dedication, and the right strategies, you can make a lasting impact.

Next Steps

The next step in your entrepreneurial journey is to take action. Begin by researching your target market, sourcing and obtaining a water analysis, and deciding on your product offerings. Start building relationships with suppliers, distributors, and retailers, and focus on developing a unique brand identity that resonates with your audience. Leverage digital tools to establish an online presence, and be prepared to continuously adapt to industry trends and consumer needs. Sustainability will be an ongoing priority, and aligning your business with these values will not only attract consumers but help secure your place in the future of the bottled water industry. Norland recommends obtaining a water analysis from [National Testing Labs](#) to determine any treatment needs.



Requirements
Spring & Well Water



Requirements RO &
Distilled Water.pdf

Starting a bottled water business is both a challenge and a rewarding endeavor. With a solid plan, persistence, and a commitment to quality and sustainability, you're on your way to building a brand that can succeed and grow in this dynamic industry.

Norland Solutions: With over 30 years of expertise in the bottled water industry, Norland is more than just an equipment manufacturer—it's also a bottled water provider. Norland Pure, a division of Norland International, offers both small and large format bottles, committed to delivering the highest quality, best-tasting water at an exceptional value, along with unparalleled customer service.

Each bottle of Norland Pure water is purified through an innovative, patented 5-step process, including steam distillation. This advanced purification allows us to offer two premium options: traditional distilled water and our electrolyte-enhanced premium drinking water, both crafted to meet our high standards for purity and taste.

With Norland, you're getting a trusted equipment supplier with real-world experience starting and growing a successful bottled water business.



How Norland can Help

Three Approaches to the Bottled Water Business

Each of these three bottling plant models provides various options when it comes to equipment. We can differentiate between three primary approaches in the bottling industry:

Large Bottles for Office and Home Delivery (3- and 5-gallon)

This is a foundational and reliable entry point into the bottled water business. Profits in this model come from bottled water sales, cooler rentals, coffee service, cup sales, and delivery fees. It offers high-profit margins with relatively stable account activity. Customers are usually acquired through direct sales or media advertising, with service delivered through scheduled home or office water deliveries. In this model, a bottled water cooler is placed at each customer's location, and bi-weekly service calls are scheduled to replenish water supplies. A delivery route is typically organized to serve contracted customers in a compact geographic area efficiently, using delivery trucks. Norland provides a variety of equipment to get you started in the 3-and 5-gallon business. Norland's Triton series of washers/fillers as well as support equipment helps provide a full solution for those looking to enter this market.

Retail Market for Smaller Bottles (300ml to 1-gallon)

This approach focuses on the retail distribution of smaller bottled water products. Retail outlets like grocery stores, convenience stores, food chains, gas stations, and other consumer locations are key distribution points. Water is typically delivered in cases or on pallets, ready for consumer purchase. While the profit per bottle may be modest, large volumes can generate substantial revenue. A significant advantage of the Norland Bottled Water Plant is its compact design, allowing it to be installed in smaller communities. This reduces shipping costs, which can otherwise erode profits in small bottle production. Norland has a full suite of products for smaller bottles including our Freedom Series Blow Molders to our Triumph Series fillers.

Combined Large and Small Bottle Market

For businesses with the resources to handle both, producing large and small bottles can be the optimal choice. With the Norland Bottled Water Plant, it's possible to fill bottles of all sizes, allowing you to target both retail and delivery markets. This dual approach provides several advantages:

- You can capture opportunities in both retail and delivery markets.
- Distributing small bottles in local stores promotes brand recognition, which can boost your large bottle business as well.
- Maximizing equipment usage by producing both bottle types keeps production steady and staff engaged, ensuring that equipment is profitable and not left idle.

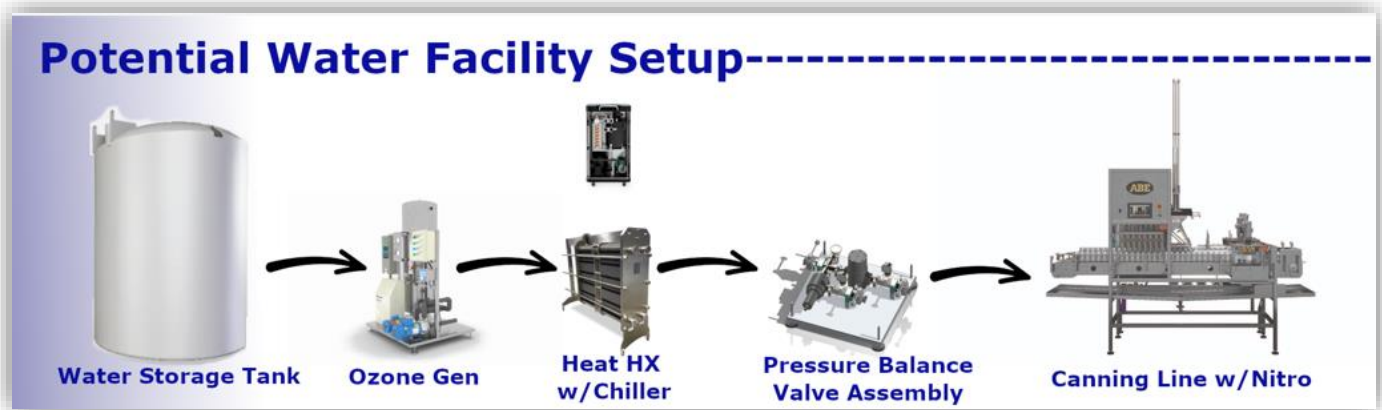
By targeting both markets, you not only maximize your operational efficiency but also broaden your brand's reach and increase profitability.

Getting Started Canning Water

There's growing interest in packaging water in aluminum cans. Compared to PET bottles, aluminum cans offer much greater packaging flexibility. They come in a variety of shapes—short, tall, slender, and wide—allowing brands to choose a distinctive can style that aligns with their identity. Plus, cans are available in a range of colors, offering additional opportunities for brand customization.

Another benefit of aluminum can packaging is the lower startup cost for equipment. The machinery needed for canning water is generally far less expensive than the rotary filling systems required for PET bottles. In addition, the utilities needed for operating canning equipment is typically less as well. The trade-off is that individual aluminum cans tend to cost more than PET bottles.

Here is a sample of what equipment may be needed inside your facility to start canning water:



Here is a sample cost analysis of canning water vs bottling water. These numbers are for raw materials only and exclude any shipping, labor, or utility charges. Prices will vary based on quantities ordered and material used.

Component	12 oz Aluminum Can	16 oz Aluminum Bottle	16.9 oz Premium PET Bottle	12 oz Glass Bottle
Container	\$0.18	\$0.50	\$0.23	\$0.50
Label	\$0.06	\$0.10	\$0.02	\$0.06
Cap	(202 LOE) \$0.05	(ROPP) \$0.05	(PCO) \$0.01	(CROWN) \$0.03
Total Packaging Cost	\$0.29	\$0.65	\$0.26	\$0.59
Avg. Selling Price (retail)	\$2.00	\$2.00	\$2.00	\$2.00
Gross Margin (per unit)	\$1.71	\$1.35	\$1.74	\$1.41
Equipment Cost (From Norland as of 2025)	\$299,353	\$282,478	\$313,644	\$465,671

Norland Equipment List

Here is a list of equipment Norland can provide to assist you in opening your bottled water business:

Explore Water Treatment & Purification Options

VAPOR COMPRESSION DISTILLERS



Minimal Maintenance

- Submerged tube and shell heat exchanger
- Quick and easy servicing
- Removable doors and exterior plates for easy access
- Pyrex sight glass

Dependable Water Purification Machine

- Sturdy one-piece aluminum rotor
- PLC and Solid State Controls
- TDS detection
- Portable and compact

REVERSE OSMOSIS SYSTEMS

High-Efficiency

- Standard systems produce 3,500-9,000 GPD
- Custom large sizes
- Variety of industries

Additional Add-ons Available

- Special pre-treatment
- UV Water Treatment Systems
- Ultra-filters
- Specialized units



SPRING/WELL WATER TREATMENT SYSTEMS



Purification

- Treat 15-90 GPM
- Treats various water qualities
- Uniquely removes contaminants using water filtration, ultra-fine filters, and UV treatment.

Unique Design

- Multimedia Filter removes particulates to 20 microns
- Sand/Spin Filter removes particulates to 100 microns
- Absolute Cartridge Filter removes particulates and cysts to 1 micron
- UV System reduces viruses and bacteria
- DGD Filter removes particulates to 1 micron nominal

OZONE WATER TREATMENT

Norland Ozone Systems are complete frame-mounted modules explicitly designed for high-quality bottled water operations and can produce enough ozone to treat up to 90 gallons per minute (larger systems available upon request). We design these compact ozone water treatment systems to keep residual ozone levels from 0.1- 0.4 ppm (parts per million).



OTHER WATER TREATMENT



Water Storage Tanks

Norland storage tanks range from 550 – 4,400 gallons, are made from food-grade polyethylene, and are complete with 0.2-micron air filters and carbon ozone outgas filters. 304 stainless steel tanks are also available for mixing and carbonation purposes.

Carbon Filters

Norland can adequately size and supply unique Catalytic Carbon Media for chlorine, particles such as sediment, volatile organic compounds (VOCs), taste, and odor, along with many other waterborne contaminants.

Media Filters

Norland can adequately size and supply other media types to help reduce or eliminate other contaminants such as Iron manganese and Hydrogen Sulfide. We sieve our Media filters to remove particulate matter down to 5 – 10 microns using Granular Zeolite Filter Media.

UV Water Treatment

These stainless steel systems utilize UV radiation with no chemical residue or side effects.

Water Softener

Norland can adequately size and supply standard single or dual Tank Softener Systems depending upon final requirements. We use dual-tank automatic alternating softener systems to provide a continuous supply of soft water to distilled or RO water treatment systems.

Explore Water Bottling Equipment Options

TRIUMPH BOTTLING SYSTEMS



All-in-One Bottling System

- Bottle rinsing machine, bottle filling machine, and bottle capping machine all in one
- Bottle Capper can utilize 28 mm, 28 mm child-proof, or 38 mm caps
- HEPA filter comes standard on all bottling lines for sale
- Built-in clean room
- Suitable beverage filling equipment for products other than water

Speed & Efficiency

- Automatic Bottle Filler for up to 2,000 – 5,000 BPH (based on 16.9 oz bottle)
- Rinsing and spraying consume less than 1 GPM of water
- Triumph Ultra uses 18 rinse valves, 18 fill heads, and 6 cap heads
- Triumph Classic uses 8 rinse valves, 8 fill heads, and 4 cap heads
- Rotary Filling Design

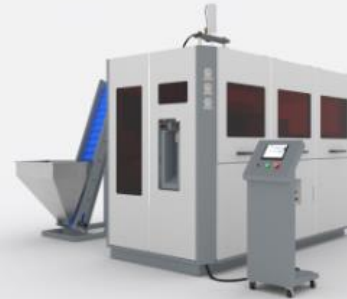
FREEDOM SERIES BLOW MOLDERS

Compact Design

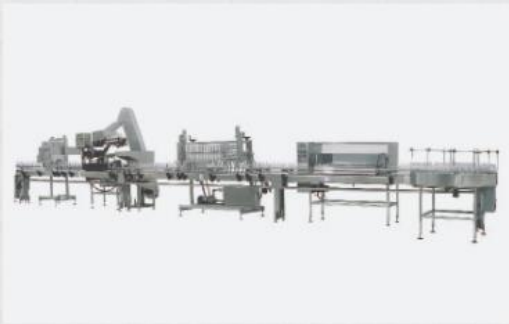
- Three or five cavity chamber
- Infrared Heat Tunnel System
- HEPA filter comes standard
- Four heating zones

Efficient System

- Produces 3,000 to 5,000 BPH
- 350 ml – 1.5 liter bottle size
- PLC controlled system
- Preform elevator system



SPECTRAPAK BOTTLING LINES



Complete Design

- Specialty equipment designed for 1 gallon or 5.0 liter
- Produce up to 1,000 (1 gallon) BPH
- Simple to Operate
- Manual or Automatic bottle-loading options

Potential Water Treatment Equipment:

- Spring Water Treatment System
- Water Storage Tanks
- Ozone System

Complete Inline Machines Include:

- BR3000 Rinser for bottle rinsing
- BF5000 XLT Filler for bottle filling
- Automatic Capping Machine
- Feed Table and conveyors

LIBERTY150 AUTOMATIC BOTTLE UNSCRAMBLER

Convenient Design

- Compatible with low to high-speed bottling lines
- Large bottle hopper with easy access
- Stack lighting to show operating conditions
- Non-lubricating drive motors
- Electronic variable speed controls

Dependable Operation

- Smooth, quiet operation with speeds up to 150 BPM (9,000 BPH)
- Few moving parts for minimum maintenance
- Electronic bottle counter and production reporting
- Automatic size adjustment (no changeover)



SHRINKPAK SHRINK WRAP MACHINE



Efficient Design

- Package up to 330 cases per hour
- PLC interface display with digital controls
- Manual or automatic bottle-loading options
- Can package virtually any shape or size of package
- Polyethylene film seals package from debris

Explore 3 & 5 Gallon Bottling Equipment Options

TRITON450 WATER FILLING MACHINE



All-in-One Bottling System

- Pre-wash, wash, sanitize stations
- Includes large water bottle capper
- Both washer and filler operate with same electrical connection
- Injection pump for sanitizer and detergent
- Built-in water heaters

Ease-Of-Operation

- Dual bottle load system
- Different sizes can be loaded simultaneously & without changeover
- PLC controlled system allows for easy programming
- Oversized filter screens minimize screen cleaning, reducing downtime

TRITON160 WATER FILLING MACHINE

All-in-One Bottle Equipment

- Separate bottle washing, sanitizing & bottle rinsing machine
- High-pressure pre-wash sanitizes and removes debris
- Height sensors on both fill heads maximize production
- Built-in water heaters
- Cap hopper holds up to 50 caps
- UV light properly disinfects caps

Intuitive Design

- Only one-operator needed
- Lift & Spin feature enhances cleaning inside and out
- HMI touch screen with easy programmable set-up functions
- No changeover necessary when switching bottle sizes
- Small footprint ideal for space limitations



BWF150 BOTTLING LINE



Economical Design

- Wash, fill & cap 3 and 5 gallon bottles
- Wash and sanitize solutions are recirculated for maximum efficiency
- Internal heating elements
- Precise temperature and timing controls

Versatile & Compact

- Optional small bottle system adaption
- Adjustable filling table height
- Pneumatically driven capper
- Stainless steel construction

RACKSTACKER BOTTLE RACKING SYSTEM

Increases Efficiency

- Eliminates manual lifting of 3 & 5 gallon bottles
- Labor-saving for operators
- Engineered with a proprietary alignment system
- Optional remote start

Compatible Design

- Programmable with up to 3 different rack styles
- Easily integrates in current production line
- Set up with conveyors to easily move bottles
- Automatic rack loading system option available



FIVE & THREE GALLON CAPS



Secure Fit

- Designed to snugly fit standard 3-gallon and 5-gallon jugs
- Leak-Proof Design
- Easy Installation and removal

High Quality

- Caps are digitally inspected to ensure the highest quality
- Tamper-evident option provides extra security
- Puncture or plug style available

Beverage Filling Equipment

PATRIOT FILL STATION

2-Head Bottle Filler

- Pneumatic operation – no electrical available
- Fill up to 8 BPM/750 ml
- Accurate within <1% of volume
- Fill bottles ranging in size from 12 oz to 2.25 liter
- Inquire about our alternate configurations!

Filtration Station

- A wide variety of filter options are available
- Stainless steel transfer tank with a sealed lid
- Stainless steel sanitary connections



CRAFTCAN SERIES



Precision Filling

- Exclusive one-piece fill head design for enhanced sanitary environment & increased fill level accuracy
- Proprietary CO₂ micro-burst action to better manage foam
- Purge cycle – precision purge control means reduced dissolved oxygen pickup resulting in reliable oxygen evacuation

Servo Seamer Technology

- Patented torque monitor instantly inspects and assesses seam accuracy on every can
- System diagnostics available for remote troubleshooting

Labeling and Date Coding

LABELMAX90 LABELING MACHINE



Quickly Label a Variety of Containers

- Operation speed is adjustable to a wide range of round container sizes

Premium Features

- Advanced Stepper Motor and quality Optical Sensor make operations quick, precise, and reliable
- Complete with automatic warning feature for label breaks, empty spool, and low label volume

LABELMAX35 LABELER

Fast, Accurate Labeling

- Servo motor for precise positioning
- Auto-wrap speed syncs to label speed; no manual adjustment needed
- Spacer wheel included for optimal package spacing

Premium Features

- Touch screen panel for ease of operation and continual visual monitoring
- Designed to print date/batch code directly onto the label before application
- Small footprint



SMARTSHOT15 LABELING MACHINE



Convenient Design

- Complete label applicator machine and date coding capabilities
- Easy-view operator controls
- SD card slot for future firmware and font upgrades
- The most compact size in the industry

Premium Features

- Complete with custom-assembled, military-grade 8625, type 2, anodized aluminum frame
- Built-in photo sensor and an auxiliary port for optional external photo sensor
- Anti-shock mounting for printer protection

DATE CODERS

Norland offers both InkJet and Laser date coders that are reliable, adjustable, and easy to use. Date coders are installed for an inline application to your small bottles, saving you time and money versus manual bottle applicators.



Complete Water Plants

SMALL BOTTLING PLANTS



Norland International is at your service from day one for your small bottled water plant. What we refer to as small bottle machines usually accommodate 350 ml-2 liter bottles. We offer one-on-one consulting on the best bottling line for your water bottling company and provide detailed start-up checklists and support. By partnering with Norland Intl for your small bottled water business, you have a partner with decades of experience and insight in the bottled water industry to help you grow your business. There are several different configurations Norland will advise based on your space. Here is an example:

Complete Plant Layout Includes:

- Freedom Classic or Freedom Ultra Blow Molding System
- Liberty150 Bottle Unscrambler
- Triumph Classic or Triumph Ultra Rotary Filling Lines
- Laser Date Coder
- LabelMax90 (or other bottle applicator)
- ShrinkPak

Potential Water Treatment Equipment:

- Carbon Filter
- Reverse Osmosis System
- Water Storage Tanks
- Ozone System

LARGE BOTTLING PLANTS

Norland offers several different products and configurations for the 3-5 gallon market. At Norland International, we custom-build your equipment from the ground up, ensuring you receive the highest-quality end product. And we don't stop there: our world-class team of engineers, water equipment manufacturers, customer service techs, and support staff is by your side to help you plan, launch, build, and maintain your water business. We promise our dedicated partnership will extend beyond the initial purchase of your equipment.

Complete Plant Layout Includes:

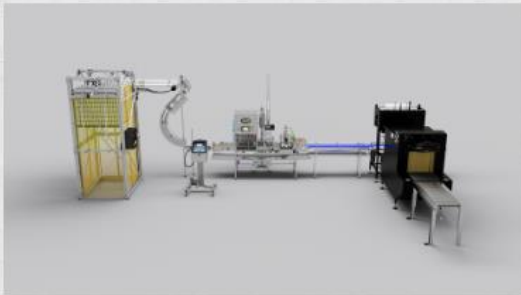
- Triton160 or Triton450 Large Bottle Filling Line
- RackStacker Bottle Racking System

Potential Water Treatment Equipment:

- Carbon Filter
- Water Softener
- Vapor Compression Water Distiller (also referred to as VC Water Distillers)
- Water Storage Tank
- Ozone System



COMPLETE WATER CANNING LINE



Norland has focused on extending our range of specialty equipment products to clients throughout other markets, including beverage filling equipment. You might recognize the name of our other division, [ABE Equipment](#). For years, our in-house experts have perfected our canning equipment and filling lines so they are exactly what customers need regarding beverage packaging equipment.

Canning water has become a modern packaging solution. With Norland's auxiliary packaging equipment, we have everything needed to produce a superior product from start to finish. Read our [blog](#) on how canned drinking water resonates with consumers and brands alike.

Complete Layout Includes:

- YellowJacket Depaletizer
- Z-Rinse
- CraftCan Duo90 Canning Line
- ShrinkPak Shrink Wrap System
- Accumulation Conveyor & Roller Conveyor

[View Complete Canning Solutions](#)

Helpful Financial Documents

The attached Financial Sheets are projections only and are not to be construed as guaranteed in any manner. Your business including costs, expansion rate and overall profitability may vary significantly from the numbers shown. As with any business, there are known and unknown risks that have not been identified nor taken into account on the projected sheets.

The Financial sheets take the following items into account:

Number of Customers per Month - this number is completely subjective and can vary widely. You may not be able to add as many indicated or you may be able to add more customers per month.

Based upon our experience, the number of customers added per month indicated on the sheets should be achievable in many larger markets.

Water Price - the sheets indicate the water is being sold for US\$1.00 per gallon (3.78 litres) which is currently the national average for the U.S. Your market may or may not support this selling price.

Amount of Water Purchased per Month - this too is a subjective amount which can vary substantially. From our experience, mid to large commercial accounts, by their sheer size, consume more water than most residential accounts. The Projected Financial sheets indicate the average customer will purchase 20 gallons (75.6 litres) per month.

Bottles - the projections are based upon using 5-gallon (18.9 litre) bottles at a cost of US\$5.00 per bottle. Five bottles per customer have been used for the calculations. On a two-week delivery cycle, this would provide for three (3) bottles at the customer's location and two (2) in transit.

Caps - The projections are based upon using no-spill caps at a cost of US\$0.10 each and using four (4) caps per month per customer.

Coolers - Cook and Cold Coolers have been used for the projections at a cost of US\$130.00 each depreciated over a five (5) year period.

Labels - A label cost of US\$0.25 per label has been calculated. The labels are normally applied to a bottle once and are normally good for the life of the bottle.

Loan Repayment - the projections are based on borrowing US\$250,000.00 and repaying it over 84 months at an interest rate of 9%.

Please keep in mind that there are a wide number of variables in operating a bottled water business. Your costs in all likelihood will not match the costs indicated on the financial sheets.

Production Costs for 5 Gallon Bottles	Cost per bottle
1. 5 Gallon Bottle Reuse Cost (per use) <i>75 uses at \$6.00 per bottle</i>	\$0.08
2. Label Reuse Cost (used once) <i>50 uses at \$0.50 each</i>	\$0.01
3. Detergent & Sanitizer Cost	\$0.01
4. Labor 150 bottles per hour @\$8.00 hr.	\$0.06
5. Water Cost / Drainage Cost	\$0.02
6. Electricity	\$0.02
7. Cap Cost	\$0.09
8. Equipment Ammortization (7 years) <i>(1,500,000 bottles @\$90,000 equipment cost)</i>	\$0.06
9. Maintenance	\$0.03
TOTAL BOTTLE COST	\$0.38
5 Gallon Bottle Cost estimate (with handle)	\$6.00
5 gallon Push On Type / Spill Proof Type caps (each)	\$0.09
5 gallon Push On Type / Non-Spill Proof Type caps (each)	\$0.05
Bottled Water Coolers (each) without Spill Proof Insert	\$128.00
Bottled Water Coolers (each) with Spill Proof Insert	\$132.00
Cost for Ceramic Coolers	\$23.00

PRODUCTION ANALYSIS FOR SMALL P.E.T. BOTTLES		Other Considerations	500 ml	1.0 liter	1.5 liter
		Bottles per case	24	12	12
1. Estimated 500 ml bottle cost - including preform, labor and shipping.	\$ 0.070	Cases per pallet	70	55	40
2. Cap Cost - (flat caps = \$0.015 / sports cap = \$0.03 each)	\$ 0.010	Bottles per pallet	1680	660	480
3. Label Cost - Pressure Sensitive quantities of 2,000,000 ordered (estimated cost for three color paper label)	\$ 0.018	Pallets per truckload	21	21	21
4. Electricity, water, maintenance, replacement parts	\$ 0.008	Cases per truckload	1470	1155	840
5. Shrink-wrap material (estimated Shrink wrapped cost \$0.24 with tray)	\$ 0.010	Bottles per truckload	35,280	13,860	10,080
6. Labor for bottling and packaging (4 employees per shift to produce up to 4000 bottles per hour Based on \$10.00 per hour labor cost x = \$40 per hour).	\$ 0.010	Total liters in each case (approx.)	12	12	18
		Liters per pallet	840	660	720
ESTIMATED TOTAL TO PRODUCE 500 ML. BOTTLE IN SHRINK MATERIAL	\$ 0.126	5000 Production requirements based on 500 ml bottles			
			Per Day	Per Week	Per Month
					Per Year
1. Estimated 1.0 liter bottle cost - including preform, labor and shipping.	\$ 0.110			6-days	24-days
2. Cap Cost - (flat caps = \$0.015 / sports cap = \$0.03 each)	\$ 0.010	* 5000 System per hour x 6.5 hour production per day (based on 8 hour working day) 1 Shift only. 500 ml bottle.	26,000	156,000	624,000
3. Label Cost - Pressure Sensitive quantities of 2,000,000 ordered (estimated cost for three color label)	\$ 0.027	Product water required. (5000 Line) Volume in Liters	13,000	78,000	312,000
4. Electricity, water, maintenance, replacement parts	\$ 0.008				
5. Shrink-wrap material (estimated Shrink wrapped cost \$0.28 with tray)	\$ 0.010	* \$0.05 Average minimum profit per bottle (5000 Line. 60% of volume through Wholesale Distribution.)	\$ 936	\$ 5,616	\$ 22,464
6. Labor for bottling and packaging (4 employees per shift to produce up to 3200 bottles per hour. Based on \$10.00 per hour labor cost x = \$40 per hour)	\$ 0.013	*\$0.14 Average minimum profit per bottle. (5000 Line. 40% of volume through Retail Distribution)	\$ 1,456	\$ 8,736	\$ 34,944
ESTIMATED TOTAL TO PRODUCE 1.0 liter. BOTTLE IN SHRINK MATERIAL	\$ 0.178	Total possible profit			
		* 5000 Line per hour x 6.5 hours per day	\$ 2,392	\$ 14,352	\$ 57,408
		(these are sample figures and may reflect your exact profit potential)			
1. Estimated 1.5 liter bottle cost - including preform, labor and shipping.	\$ 0.160				
2. Cap Cost - (flat caps = \$0.015 / sports cap = \$0.03 each)	\$ 0.009	Building Consideration			
3. Label Cost - Pressure Sensitive quantities of 2,000,000 ordered (estimated cost for three color label)	\$ 0.032	Minimum Square feet required for a standard SpectraPak3000 Plant	5000		
4. Electricity, water, maintenance, replacement parts	\$ 0.008	# of Employees to Operate Equipment			
5. Shrink-wrap material (estimated box cost - \$0.40 / Shrink wrapped cost \$0.28 with tray)	\$ 0.010	* 3000 System per hour x 8 hours per day shift	4		
6. Labor for bottling and packaging (4 employees per shift to produce up to 2800 bottles per hour. Based on \$10.00 per hour labor cost x = \$40 per hour)	\$ 0.014	* 5000 System per hour x 8 hours per day shift	5		
ESTIMATED TOTAL TO PRODUCE 1.5 liter. BOTTLE IN SHRINK MATERIAL	\$ 0.233				

1 Shift	Triumph Ultra Line	Hour	Day	Week	Year
		NC	6.5 hrs per day	5 days per week	52 weeks per year.
	500 ml bottle	5,000	32,500	162,500	8,450,000
	1000 ml bottle	4,000	26,000	130,000	6,760,000
	1500 ml bottle	3,500	22,750	113,750	5,915,000
1 Shift	Triumph Classic Line	Hour	Day	Week	Year
	500 ml bottle	3,000	19,500	97,500	5,070,000
	1000 ml bottle	2,400	15,600	78,000	4,056,000
	1500 ml bottle	1,800	11,700	58,500	3,042,000
1 Shift	Freedom Classic Blow Molder	Hour	Day	Week	Year
	500 ml bottle	3,000	19,500	97,500	5,070,000
	1000 ml bottle	2,400	15,600	78,000	4,056,000
	1500 ml bottle	1,800	11,700	58,500	3,042,000
2 Shifts	Freedom Classic Blow Molder	Hour	Day	Week	Year
	500 ml bottle	3,000	39,000	195,000	10,140,000
	1000 ml bottle	2,400	31,200	156,000	8,112,000
	1500 ml bottle	1,800	23,400	117,000	6,084,000
	Projections based upon:				
	6.5 hours actual per day				
	Standard bottle design				
	Use of De-Scrambler				
	Standard label dims.				
	Flat or sports caps application				
	Automatic Case Packing				
	Automatic Case Taping				

Contact Us



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10-Step Success Guide: Starting a Bottled Water Business

1. Market & Competitive Research + Niche Definition

Understand demand, trends (e.g. mineral, spring, flavored, functional), customer preferences, and key competitors. Use this insight to define your niche and product lines.

2. Business Plan & Financial Strategy

Produce a robust business plan (mission, goals, structure, operations, financial projections). Estimate startup costs, margins, funding requirements, and break-even points. See below for estimated startup costs & estimated equipment costs.

3. Legal Structure, Registration & Licensing

Choose your legal entity (e.g., LLC), register the business, get an EIN. Secure required permits, health, FDA / regulatory licenses, environmental approvals. Your dept. of agriculture is a good place to start when seeking guidance on local codes. Also, the International Bottled Water Association also has a variety of useful information regarding compliance and standards.

4. Sourcing & Water Quality

Identify high-quality, sustainable water source(s): springs, wells, or municipal. Ensure regular testing, compliance with safety and regulatory standards. Obtain a thorough water analysis to provide to Norland to properly design a treatment system. Test kits can be purchased here: <https://norlandintl.com/resources/water-testing>

5. Facility, Equipment & Infrastructure

Set up or lease a facility with layout & utility capacity to support purification, storage, bottling, and packaging equipment. Acquire machinery (filtration, RO, UV etc.), packaging supplies, caps, bottles etc. Norland can help craft your ideal equipment lineup as well as provide facility layouts to ensure adequate space for production. Sample layouts for water facilities can be found here: <https://norlandintl.com/products/complete-plants/example-plant-layouts/>

6. Quality Control, Compliance & Labeling

Establish rigorous QC protocols (GMPs, lab tests), ensure compliance with health & safety standards. Create labels that meet FDA or relevant jurisdiction requirements.

- 7. Brand Identity & Packaging Strategy**
Develop brand name, logo, packaging design, messaging. Decide on sustainability of packaging (recycled, biodegradable, lightweight), and align visual identity with your brand's values. Norland can help source virtually everything you need to launch your business — from caps, preforms, labels, and bottle racks to treatment systems.
- 8. Pricing, Distribution & Sales Channels**
Determine pricing strategy based on cost structure and market positioning. Set up distribution channels: retail, direct-to-consumer, B2B, subscriptions, local delivery etc.
- 9. Marketing & Launch Execution**
Build marketing plan (online, sampling, influencers, events). Emphasize storytelling / sustainability if that aligns with your niche. Roll out launch campaigns and begin full operations.
- 10. Monitor, Scale & Grow**
Track key performance indicators (sales volume, costs, customer acquisition, retention, margins, cash flow). Once stable, expand product offerings (flavors, enhancements), broaden geography, explore partnerships or franchise/subscription models.

Startup Cost Ranges — By Scale

- 1. Small Bottling Operation**
For a modest facility bottling 300ml - 2 L bottles, the equipment investment typically ranges from \$230,000 to \$370,000, covering water treatment, filling equipment, packaging equipment, and needed compressors. Adding a blow molding unit can add another \$325,000.

For a modest facility bottling 3 & 5 gallon bottles, the equipment investment typically ranges from \$130,000 to \$200,000, covering water treatment, filling equipment, packaging equipment, and needed compressors. Adding a blow molding unit can add another \$170,000
- 2. Regional to Full-Scale Production Operation**
Building out a full production plant for 300ml - 2L bottles, capable of larger output— will likely cost \$350,000 to \$1.5 million for equipment, depending on facility size and production capacity.

For a production facility bottling 3 & 5 gallon bottles, the equipment investment typically ranges from \$180,000 to \$500,000, covering water treatment, filling equipment, packaging equipment, and needed compressors. Adding a blow molding unit can add another \$170,000

Operation Type	Bottling Size(s)	Estimated Investment Low	Estimated Investment High	Add-On Blow Molding Option
Small Bottling Operation	300 ml – 2 L bottles	\$230,000	\$370,000	+ \$325,000
Small Bottling Operation	3 & 5 gallon bottles	\$130,000	\$200,000	+ \$170,000
Regional to Full-Scale Production	300 ml – 2 L bottles	\$350,000	\$1,500,000	—
Regional to Full-Scale Production	3 & 5 gallon bottles	\$180,000	\$500,000	+ \$170,000

Norland Recommendations

Minimum Building Size: 10,000 Sq. Ft.

Water Analysis: [SimpleLabs \(https://norlandintl.com/resources/water-testing\)](https://norlandintl.com/resources/water-testing)

Full Bottled Water Success Guide can be found [HERE](https://norlandintl.com/resources/success-guide/)
(<https://norlandintl.com/resources/success-guide/>)