RFQ: Single Page Website for Licube Lab Production

Project

Renew the design of Licube's single page website.

This is a design competition. The winning designer will later be asked to implement the design into our existing site Licube3.com (hosted on GoDaddy).

- The Blog section will remain.
- The Presentation / White Paper download section will remain.
- All other sections will be replaced with the new single-page layout described here.

Note to designers: This contest is for design only (visual layout, imagery, style). No coding is required.

Deliverables

- Fully responsive single page website design (desktop + mobile).
- Clean, futuristic design with pop-cartoon, retro-futuristic palette (navy, orange, gold, white).
- Two product focus blocks (Space-grade LiOH & Nuclear Fusion-grade Li-6).
- Integrated inquiry form linked to Licube's existing contact system.
- Blog and Presentation / White Paper sections preserved and integrated into the new design.

Key Points to Consider

- This is a design-first competition; implementation will follow with the selected designer.
- ChatGPT-generated images are provided as examples — you may use them or redesign them.
- The key objective of the website is to drive inquiries from partners and customers.
- Proposed content blocks are drafted below, but designers may suggest improvements for better outcomes.
- Visual inspiration: Starlink (SpaceX) single-page layout (clean, bold, futuristic).

Content Blocks (Proposed Single Page Layout)

Hero Section

- Headline: “Licube Lab Production: Space-grade & Nuclear Fusion-grade Lithium”
- Subheadline: “From deeptech research to frontier applications — now accepting inquiries.”
- CTA button: “Request Information / Inquiry”

About Licube

Short text:

“Licube is pioneering advanced electrodialysis technology to produce frontier lithium materials: Space-grade (99.995% LiOH) for aerospace and defense, and Fusion-grade (99% Li-6) for nuclear fusion.”

Visual: Cartoon-style scientist & futuristic lab illustration.

[Presentation Download]

Our Core Technology

Licube's breakthrough combines Electrodialysis (ED) with Lithium Lanthanum Titanate (LLTO) solid electrolytes. This platform enables both ultra-pure lithium hydroxide production and isotope separation for Li-6 enrichment.

- Ultra-High Purity LiOH (≥4N, 99.99%+): Selective Li^+ transport yields 4N+ lithium hydroxide suitable for aerospace and semiconductor applications.

- Lithium-6 Isotope Enrichment (99%): Multi-stage cascades achieve 99% Li-6 for nuclear fusion blankets, tritium breeding, and advanced nuclear materials.

[Download White Paper 1] [Download White Paper 2]

Applications & Use Cases (see Appendix)

Space-Grade Lithium Hydroxide (4N, 99.995%)

- CO_2 scrubbers – spacecraft & submarines
- Aerospace greases & lubricants – satellite and probe stability
- Advanced ceramics & specialty glass – optical windows, transparent armor
- Semiconductor wafer processing – ultra-clean etching & cleaning
- Quantum & advanced research reagents – precision-grade materials
- Special-grade batteries – aerospace & defense solid-state cells

Nuclear Fusion-Grade Lithium-6 (99%)

- Fusion reactor blankets (tokamak & stellarator) – tritium breeding & neutron absorption

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Product Image & Sales Section

Products on Offer:

1. Ultra-High Purity LiOH (≥4N, 99.99%+)

    - Pack size: 100 g
    - Price: $1,000
    - Description: Selective Li^+ transport yields 4N+ lithium hydroxide suitable for aerospace and semiconductor applications.
2. Lithium-6 Isotope Enrichment (99%)
    - Pack size: 10 g
    - Price: $500
    - Description: Multi-stage cascades achieve 99% Li-6 for nuclear fusion blankets, tritium breeding, and advanced nuclear materials.

- COA and SDS provided upon request.
- Shipping will begin January 2026.
- *Note:* “Add to Cart” is a placeholder — clicking should redirect to the Inquiry Form (not e-commerce).
- Example reference product layout: Sigma Aldrich 340421

Instruction for design:

Show a minimal, scientific cube-shaped box with Licube logo and product label. Inside: a transparent vacuum-sealed pouch of fine white powder labeled “Space-Grade LiOH – Sample” with batch/COA QR code. Avoid dice-style or playful symbols. Keep the look clean, futuristic, and precise.

News & Announcements

Keep the current section, but designer may refine layout to improve clarity and visibility.

Inquiry Form

Keep the current form and integration. Designer may restyle to improve usability and encourage submissions.

Appendix

Illustration Concept: CO_2 Scrubber with LiOH

- Main Subject: A cartoon-style astronaut inside a spacecraft, depicted in a flat, bold-line style. The astronaut's visor is fully blacked-out with glossy highlights, giving a clean futuristic feel. The spacesuit is white with orange accents and a square chest panel, outlined in dark navy blue for contrast.

- Action: The astronaut is holding a glowing cartridge labeled clearly "CO_2 – LiOH". The cartridge is rectangular, metallic blue with a bright golden core shining through a transparent window, surrounded by sparkles to emphasize purity and function.

- Setting: The spacecraft interior is minimalistic, dark blue panels with clean geometric lines. Through the round porthole, stars are visible, reinforcing the space environment.

- Mood/Style: Pop-cartoon, flat retro-futuristic color palette (navy, orange, gold, white). The glow of the LiOH cartridge is the visual focal point, symbolizing life-support and ultra-high purity.

Illustration Concept: Aerospace Greases & Lubricants (LiOH-based)

- **Main Subject**: A cartoon astronaut in a white/orange spacesuit is floating near a satellite in orbit. The astronaut is holding a **futuristic grease gun** labeled *"Space Grease – LiOH"*.

- **Action**: The astronaut applies glowing, golden lubricant to a **robotic satellite arm joint**. The grease sparkles slightly, emphasizing its purity and advanced formulation.

- **Setting**: The satellite has solar panels extended, with Earth and stars in the background. The maintenance scene conveys reliability and precision.

- **Mood/Style**: Flat, pop-science illustration with bold navy/orange palette. The glowing grease is the focal point, symbolizing how **LiOH ensures stability in extreme aerospace environments**.

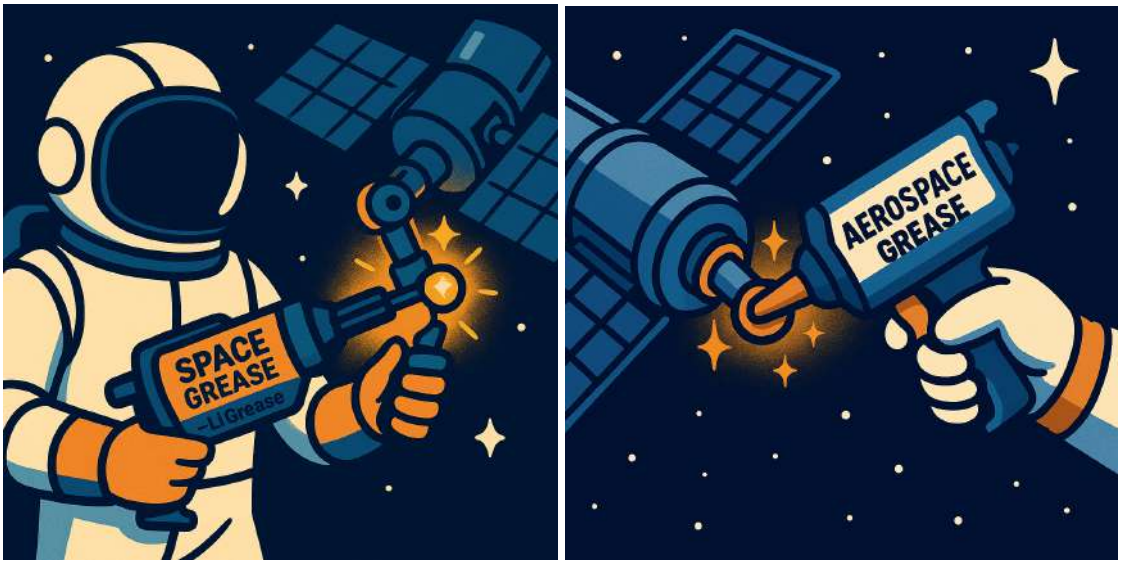

Illustration Concept: Advanced Ceramics & Specialty Glass (LiOH-derived)

- **Main Subject**: A futuristic **spacecraft or high-altitude aircraft** shown with **large, lightweight transparent domes/windows** labeled “LiOH Ceramics”.

- **Action**: A glowing **ceramic panel** is held by a scientist or astronaut, shown floating easily (to emphasize light weight). A **laser beam** or **sunlight glare** passes through it, showing strength + clarity.

- **Setting**: Either orbit (satellite with domes/panels) or futuristic aircraft in high atmosphere.

- **Visual cues**: The panel/window is **sparkling, semi-transparent, glowing slightly**, showing purity.

- **Message**: **“Ultra-lightweight, transparent, and radiation-resistant materials”** for aerospace and space applications — enabled by 4N LiOH.

Illustration Concept: Semiconductor Wafer Processing (LiOH 4N)

- **Main Subject**: A **cleanroom technician** in a white or light-blue cleanroom suit (hood, mask, face shield — not an astronaut helmet) carefully holds a **large silicon wafer**. The wafer reflects **rainbow colors** and sparkles to show its **purity and defect-free quality**.

- **Action**: The technician inspects the wafer, which glows as if freshly processed. On the workbench nearby sits a **small beaker of clear solution**, glowing faintly to represent LiOH.

- **Setting**: A **futuristic semiconductor fab** interior, with glowing **circuit patterns on walls** and **wafer racks** in the background. The environment should feel ultra-clean, bright, and precise.

- **Visual Cues**: Sparkling highlights on the wafer emphasize “perfect purity.” Subtle glow from the LiOH beaker suggests its role without dominating the scene.

- **Message**: *“Ultra-pure 4N LiOH enables precision semiconductor wafer processing — ensuring the defect-free materials required for advanced electronics and optics.”*

Illustration Concept: Quantum & Advanced Research Reagents (LiOH 4N)

- **Main Subject**: A **futuristic research lab** scene with a scientist (cartoon-style, in a clean lab coat and safety goggles) working at a glowing workstation. On the bench, a **beaker labeled with LiOH 4N** glows faintly.

- **Action**: The scientist is holding a **small chip or crystal sample** that sparkles with light, symbolizing **Li-based quantum materials**. Nearby, a stylized **quantum computer core or ion trap** glows in the background.

- **Setting**: High-tech lab interior with floating **holographic equations, waveforms, or particle symbols** in the air to suggest cutting-edge research. The environment is more academic/experimental, not industrial.

- **Visual Cues**: Sparkles and glow emphasize purity and precision. The LiOH beaker connects the reagent to the research application. Quantum hardware (chip, trap, or superconducting circuit) should look futuristic and visually striking.

- **Message**: *"4N LiOH is used as a precision reagent in advanced research — from quantum computing and ion traps to spectroscopy and frontier energy devices."*

Illustration Concept: Special-Grade Batteries (LiOH 4N)

- ***Main Subject**: A **satellite, space probe, and high-altitude aircraft** all powered by glowing battery modules. The batteries are semi-transparent, cartoon-cutaway style, with sparkling internal layers that symbolize purity.*

- ***Action**: Each application (satellite, probe, aircraft) has a glowing **battery icon** or cutaway module next to it, clearly showing **4N LiOH inside**.*

- ***Setting**: Space scene with Earth in the background, satellites in orbit, and perhaps one probe flying deeper into space. Multiple use cases are highlighted in one frame.*

- ***Visual Cues**:*

    - *Sparkling battery cells inside each system.*

    - *Icons or glowing outlines to connect each vehicle to its battery pack.*

    - *No human figures — just tech and applications.*

- ***Message**: "4N LiOH enables specialty aerospace and defense batteries — powering satellites, spacecraft, and probes where ultra-high purity ensures unmatched reliability."*

Illustration Concept: Nuclear Fusion-Grade Lithium-6 (99%)

- **Main Subject**: A **futuristic tokamak or stellarator reactor** glowing at the center, with a highlighted **fusion blanket** layer around the plasma chamber.
- **Action**: The blanket is labeled or marked as containing **Li-6**, glowing orange/golden with sparkles to symbolize its unique role in tritium breeding and neutron absorption. Energy beams or plasma arcs swirl inside the reactor.
- **Setting**: Large reactor hall or cutaway space illustration. Futuristic environment, with emphasis on **fusion energy** rather than conventional power plants.
- **Visual Cues**:
    - The Li-6 blanket glows brightly, distinguishing it from the reactor body.
    - Plasma core in blue/purple, surrounded by golden glowing Li-6 layer.
    - Icons for **neutrons** → **Li-6** → **tritium fuel** (simplified, cartoon arrows) floating around to emphasize the process.
- **Message**: *“Fusion-grade Li-6 (99% enriched) enables tritium breeding and neutron absorption in fusion blankets — powering the future of clean energy.”*

Illustration Concept: Licube Sample Box with Powder

- ***Main Subject**: A **cube-shaped box styled like a dice**, open at the top. Inside the cube is a **transparent vacuum-sealed pouch filled with fine white powder (LiOH)**, labeled clearly "Space-Grade LiOH – Sample".*

- ***Sides of the Cube (3 visible faces)**:*

    - ***Face 1 (top/front)**: A **single red dot**, like the "1" side of a dice.*

    - ***Face 2 (right side)**: The **number 3** in bold, black font.*

    - ***Face 3 (left side)**: The **letters "Li"** in bold, black font.*

- ***Style**: Clean, minimalistic, and futuristic with white background and soft shadows. The cube blends **scientific precision** with a **playful dice aesthetic**, symbolizing both purity and controlled experimentation.*

- ***Visual Cues**: Sparkles around the pouch emphasize **purity**. The cube surfaces are sharp and geometric, clearly showing all three different faces at once.*

- ***Message**: "Licube delivers its ultra-pure lithium hydroxide in a distinctive dice-style sample cube — red dot, 3, and Li — a unique identity for space-grade lithium materials."*

ChatGPT keeps failing to produce following our instruction. Please ignore the box-image above and produce the correct cube-box.