



# NexGen Fluid

INNOVATIONS

WATER TREATMENT SOLUTIONS



# ROB KINDLE, CEO

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“While the world's population tripled in the 20th century, the use of renewable water resources has grown six-fold. Within the next fifty years, the world population will increase by 40-50 %. This population growth, coupled with industrialization and urbanization, will increase demand for water and will have serious consequences on the environment.”

– World Water Council, 2021

NexGen's proven and patented technologies offer the competitive advantages of low cost, low energy consumption for waste-water reuse and Zero Liquid Discharge. The company offers solutions in water recycling, desalination and landfill leachate applications. Units are highly mobile with the smallest footprint in the industry. NexGen has developed non-invasive technology to extract lithium from brine in oil and gas wells.





# WATER TREATMENT MARKET

What is causing the global water crisis?

01

Overuse, increasing demand, pollution, poor management, lack of infrastructure, and changes in weather patterns due to global warming

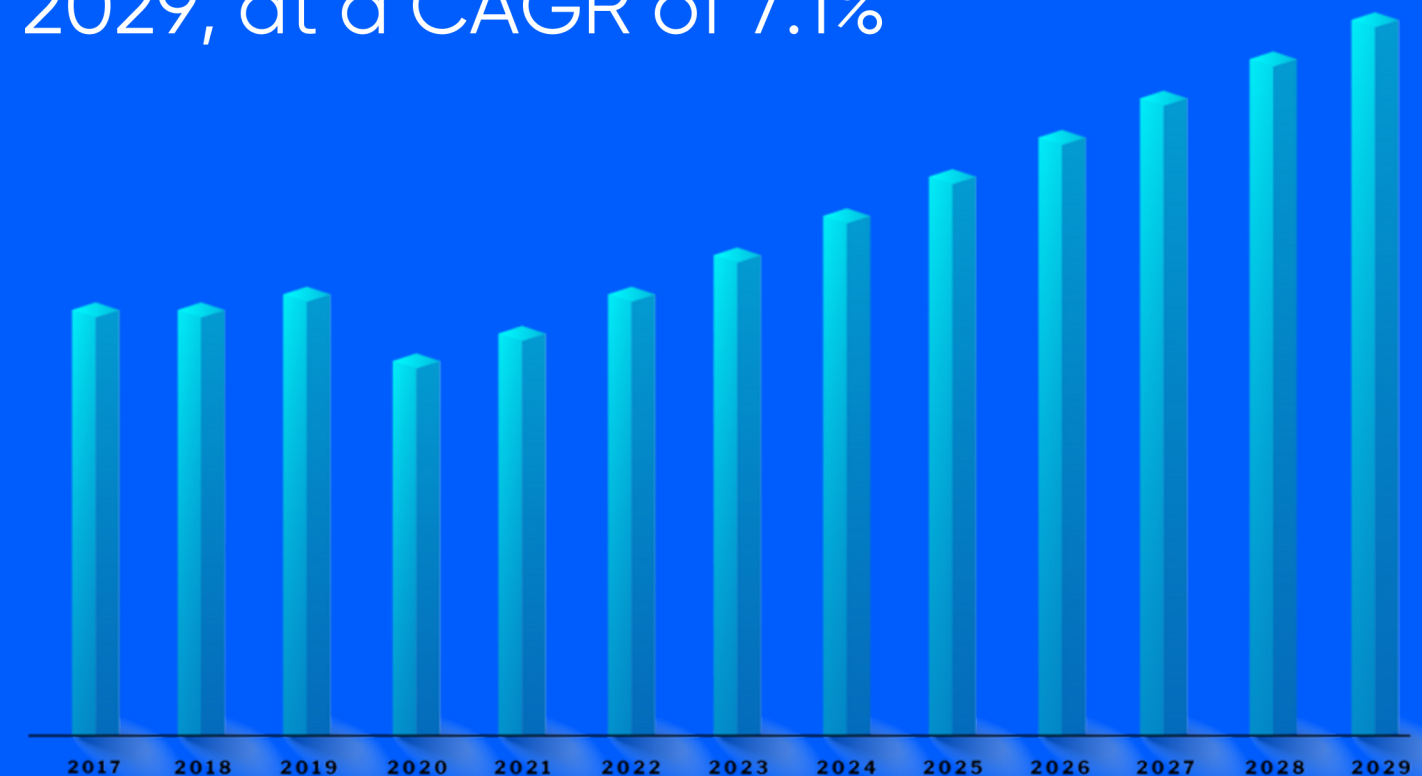
02

Last year, the World Economic Forum's annual survey of opinion leaders identified water crises as the top global risk over the next decade.

03

The gap between global water supply and demand is projected to reach 40% by 2030 if current practices continue. (World Economic Forum)

The global water and wastewater treatment market is projected to grow from \$301.77B in 2022 to \$489.07B by 2029, at a CAGR of 7.1%



Fortune Business Insights

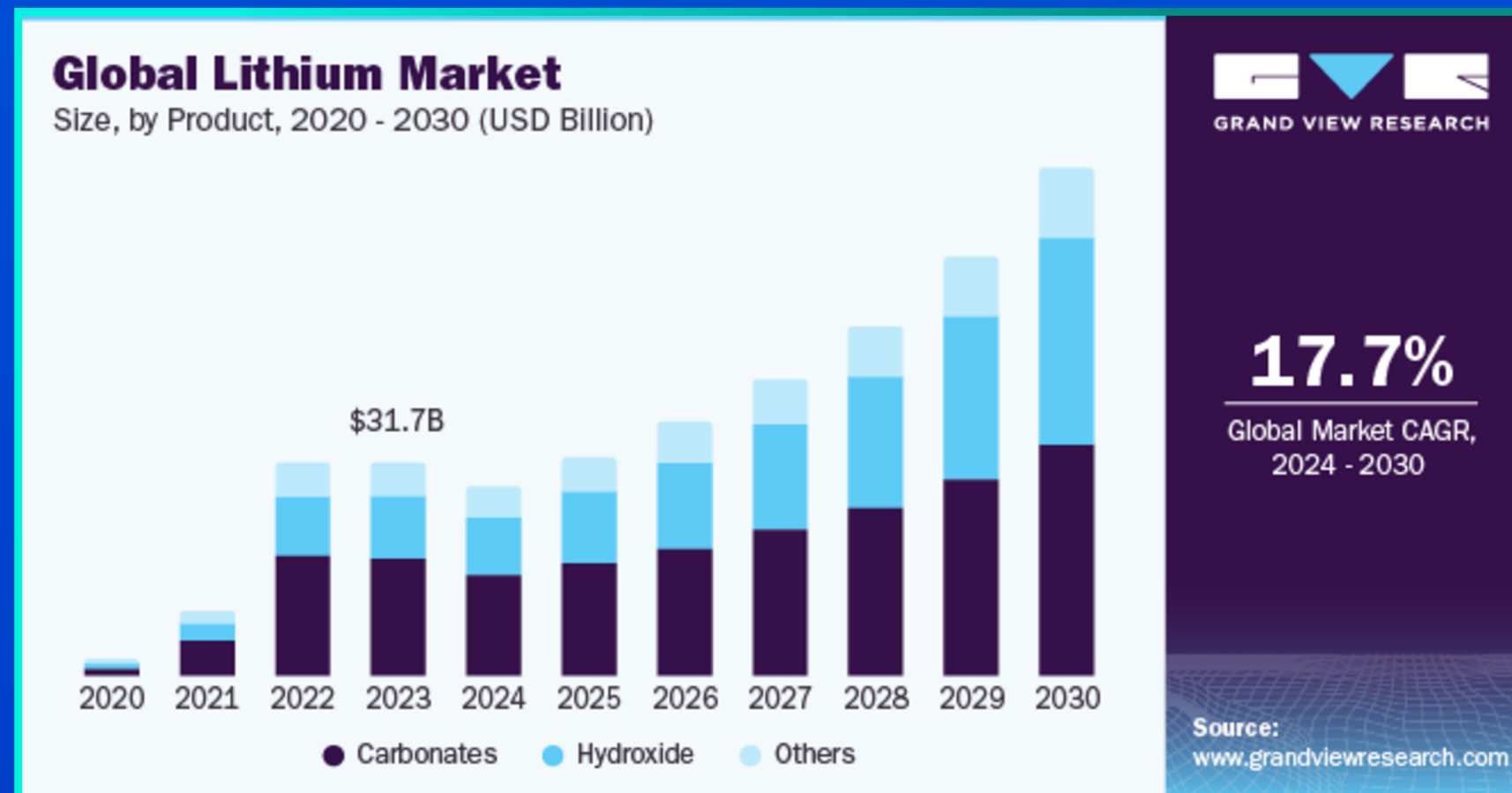


# LITHIUM OPPORTUNITY

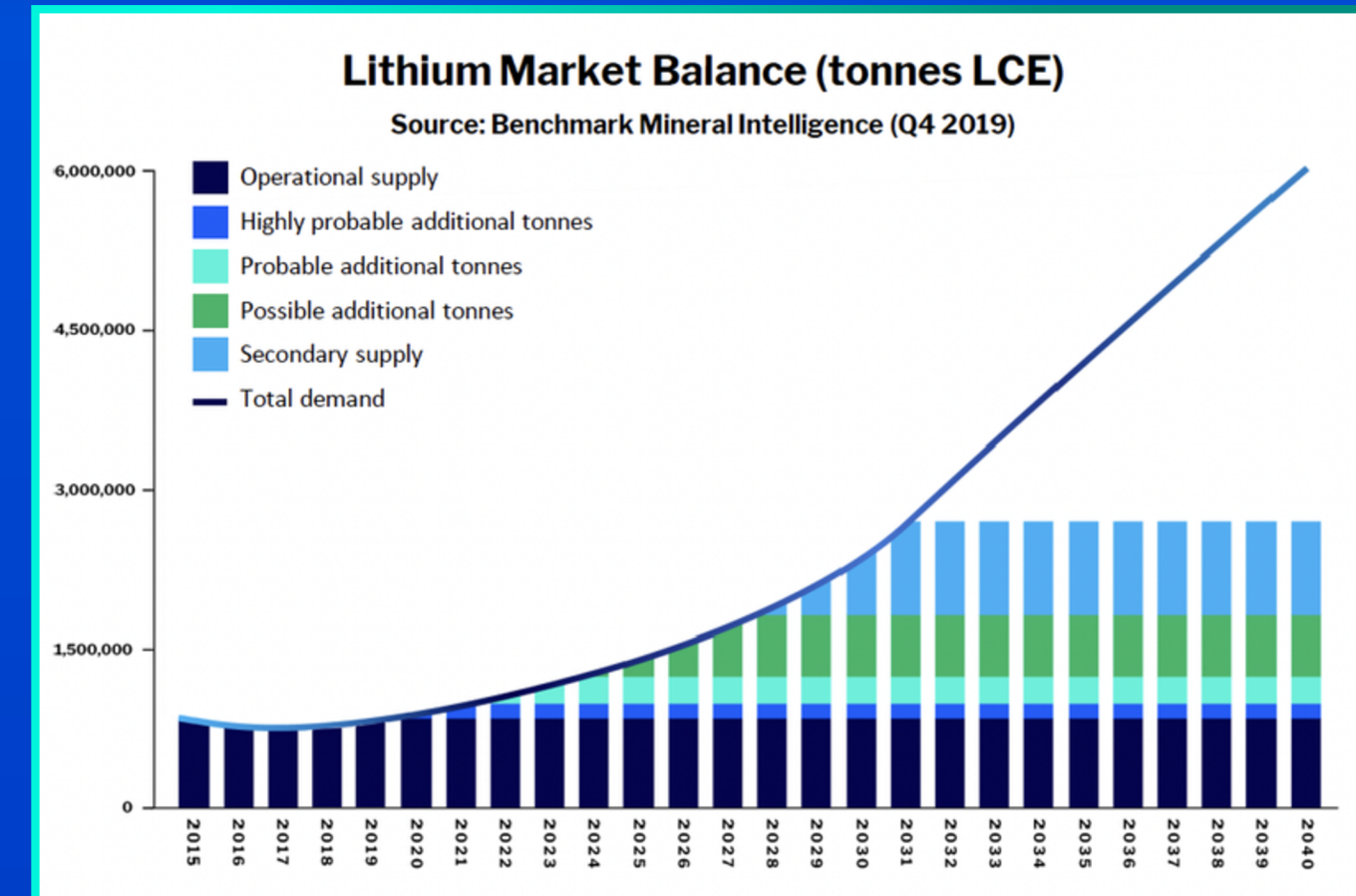
"Our new clean-energy demands could be creating greater harm, even though its intention is to do good."

– Initiative for Responsible Mining Assurance, 2021

The global lithium market is projected to have a compound annual growth rate of 17.7% between 2024 and 2030



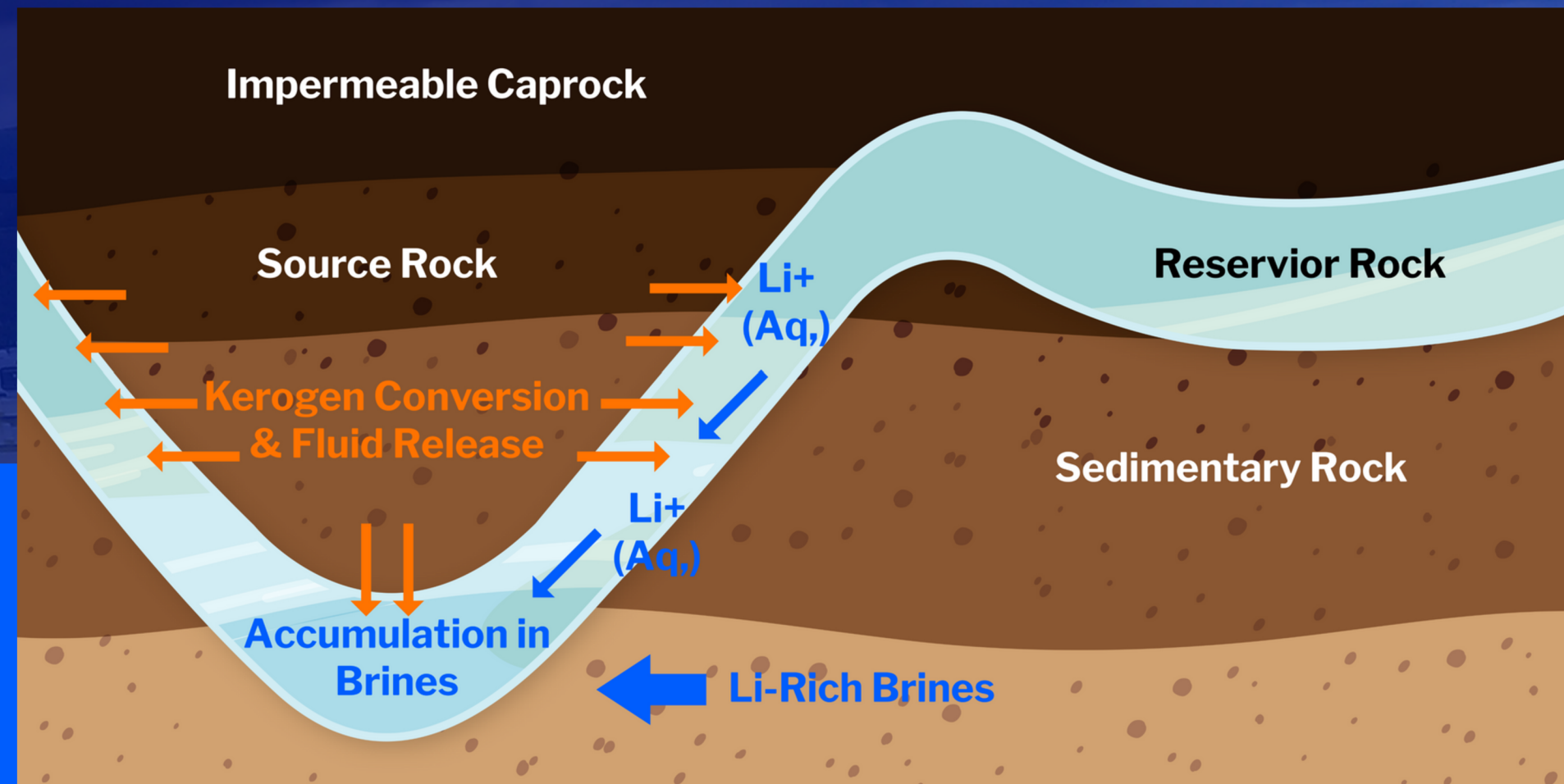
Grand View Research, 2024



Benchmark Mineral Intelligence, 2019



# HIGH-VALUE LITHIUM EXTRACTION



A conceptual diagram of the petroleum source rock system where Li-rich brines accumulate

- ✓ The Smackover Formation in the U.S. has 750,000 metric tonnes of LITHIUM metal equivalent
- ✓ Recovery from naturally occurring Permian basin wastewater at current prices could produce about \$13 million each day
- ✓ The Barnett and Eagle Ford shales in Texas also contain concentrations of lithium and each well in the shales can produce as much as 300,000 gallons of wastewater weekly
- ✓ Conservatively, enough lithium for 200 electric cars or 1.6 million smartphones could be recovered weekly from each well, making fracking more sustainable





# NEXGEN SOLUTION

- ✓ Compelling investment opportunity in the confluence of technology, market, and regulation
- ✓ Novel, patented and proven “state-of-the-art” water treatment
- ✓ Lowest operating costs for wastewater reuse and Zero Liquid Discharge (ZLD)
- ✓ Highly mobile, fully-automated, industrially robust units with the smallest footprint in the industry
- ✓ Resolves the most difficult industrial water problems with the highest efficiency
- ✓ Uniquely solves production challenges and pollution for multitude of markets through ZLD
- ✓ NexGen-engineered, non-invasive technology recovers lithium from oil & gas brine waters



# PROPRIETARY TECHNOLOGY/EXPERTISE

## 1) LTEC (Low Temperature Evaporative Crystallizer)

- ✓ Reduction and crystallization of difficult industrial waste waters
- ✓ Cost effective, environmentally-sound extraction of minerals (i.e. lithium) from oil and gas wastewaters

## 2) INTEGRA Filtration (200 down to 1 micron disk filtration)

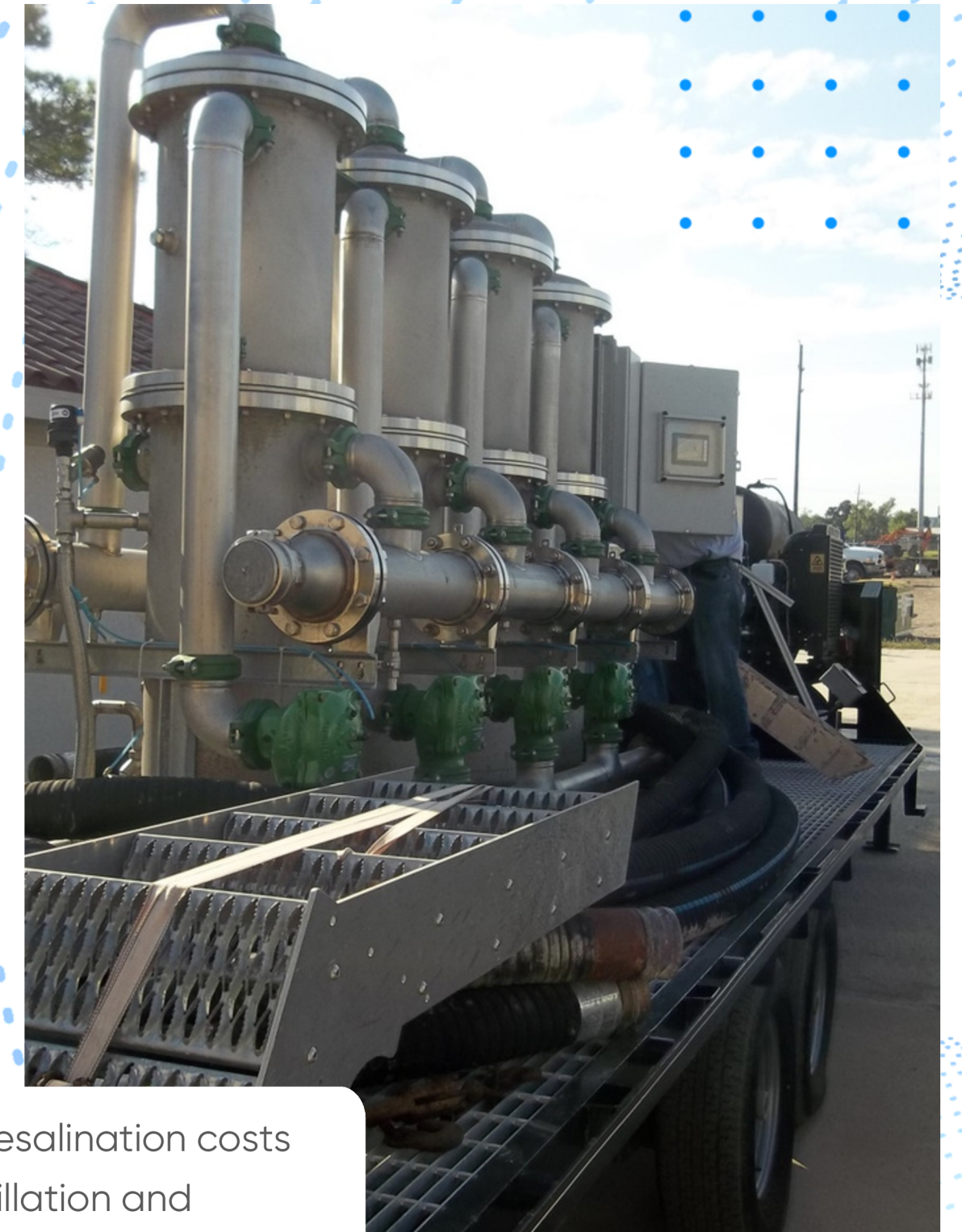
- ✓ Excels in filtration of oil and gas fluids, desalination, and processing water filtration in the paper, plastics, food, landfill leachate, winery, petrochemical and electric power industries, significantly reducing costs, waste volumes and labor
- ✓ Transcends all other filtration technologies by offering a superior high-grade filtration and quality of multiple fluids (e.g. water, brine, oil)
- ✓ Fully-automated self-cleaning units with the lowest backflush wastewater volume available
- ✓ Highest flow rate and the lowest pressure requirements and smallest footprint of industry

## 3) SXF (Spiral (X) Cross Flow (membrane water treatment technology)

- ✓ Proven success processing difficult waters
- ✓ Filtration capabilities for very poor-quality feedwater
- ✓ Requires no chemical addition or pretreatment
- ✓ Lithium extraction

## 4) SCDC (Submerged, Condensing, Direct Contact) Heat Transfer

- ✓ Recovering and recycling usable fresh water from nearly untreatable industrial waters with minimal desalination costs
- ✓ Eliminates many chemical additives and treatment processes required by conventional recycling, distillation and desalination methods





# Advantages for Industries

## INTEGRA Filtration Advantages

- INTEGRA generates 5X less wastewater than other self-cleaning filtration technologies.
- INTEGRA has the smallest footprint with highest flow rate
- INTEGRA is fully self-contained and automated and is less labor intensive.
- This filtration utilizes 4X less valves and requires less maintenance than other disc filters
- Unlike other filter systems INTEGRA is not sensitive to hydrocarbon fouling or harsh chemical damage

## LTEC Concentrator, Crystallizer, and ZLD Advantages

- LTEC exploits useless low-temperature waste heat to dramatically reduce wastewater volumes
- Unlike competitors, LTEC requires no chemical pretreatment and no chemical for descaling
- LTEC offers Zero Liquid Discharge and is corrosion resistant

## SXF Membrane Treatment Technology Advantages

- SXF unique membrane process for dewatering wastewaters and Zero Liquid Discharge
- No pretreatment chemicals or filtration required and is self-cleaning operation
- No known competitors providing lithium extraction from brine waters

## SCDC Heat Transfer Advantages

- SCDC benefits highest efficiency heat transfer and eliminates scaling without chemical pretreatment
- SCDC fluid flow is density generated eliminating the need for pumps and related pipes
- Utilized for Zero Liquid Discharge in very difficult industrial waters and for lithium extraction





# BUSINESS MODEL

## Customers

Industrial water users including Power Industry, Landfills (Leachate), Food/ Agriculture, Mining/Oil & Gas, Marine as well as Municipal water treatments

## Value Proposition

NexGen's technologies allow for water recycling, waste reduction, filtration and separation of most difficult waters/fluids and non-invasive lithium extraction with low energy consumption, least maintenance, smallest footprint and least labor intensive in industry while offering full automation

## Revenue stream

Development of cash flow from sales, leasing and consulting

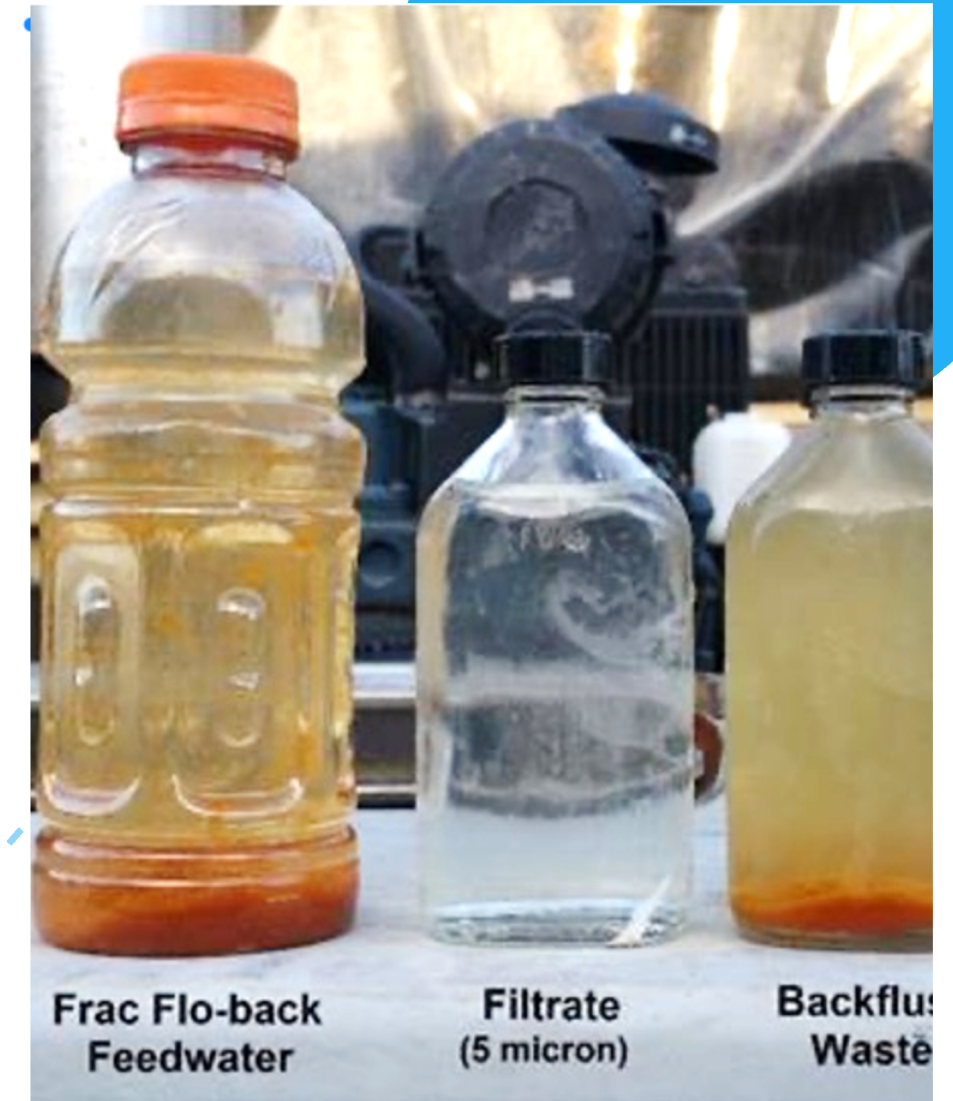
## Margins

Depending on size and scope of applications, net margins range in the 30–50%



# WHY NEXGEN?

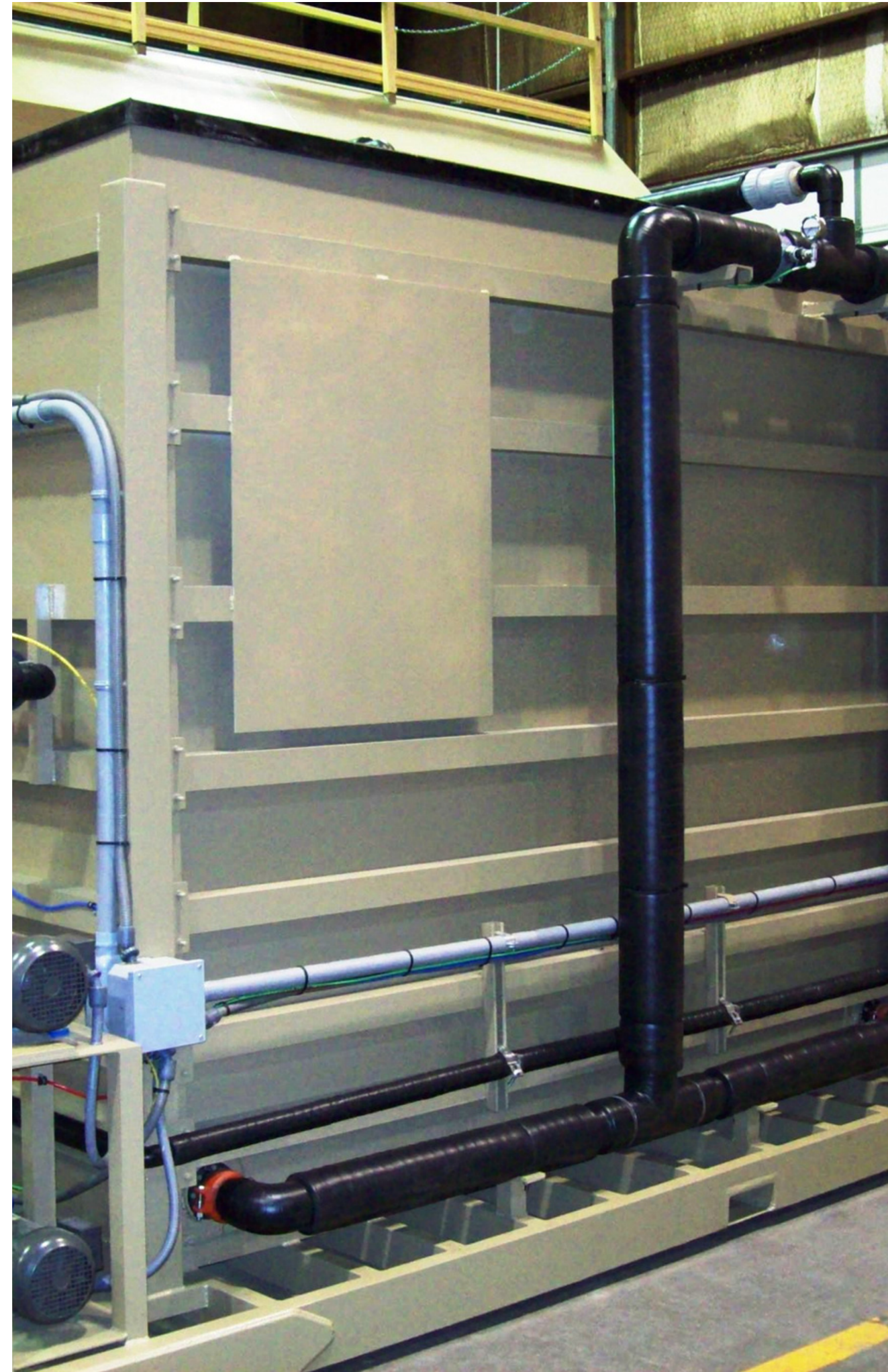
- ✓ Decades industry experience, NexGen provides unsurpassed water treatments including filtration technology, recycling, waste reduction, desalination and non-invasive lithium extraction to the industrial and municipal water sectors.
- ✓ Low energy consumption, Wastewater reuse and Zero Liquid Discharge (ZLD)
- ✓ Patented INTEGRA disc filtration technology, LTEC, SXF and SCDC, offers solutions for low-cost, high volume water filtration treatment systems, waste reduction, Zero Liquid Discharge and other industrial solutions that reduce CO2 emissions.
- ✓ Smallest footprint and energy consumption
- ✓ Highly mobile, Proven performance with hydrocarbon laden fluids





# GO-TO MARKET PLAN

While targeting specific projects and industrial applications needing NexGen's technologies for sales and leasing opportunities the company will also commercialize its non-invasive lithium extraction from brine waters in old and operating oil and gas wells as demand for lithium increases with the move to electric vehicles. NexGen will likewise focus on customers for its most recent technology that provides for high-efficiency water desalination.



## NexGen will utilize raised funds to:

- 1) Increase sales to existing customers
- 2) Build additional inventory
- 3) Move to complete sales contracts with pending or prospect customers
- 4) Bring several exiting technologies from bench or field tested to full scale commercialization, and
- 5) Continue to develop new technologies in the water treatment and recycling industries.





# FOUNDING TEAM



**Jeff Harris**  
**President and CTO**

Jeff Harris has been a professional engineer for over 40 years. He has numerous patents and inventions to his sole credit. Harris' technologies have been successfully utilized for everything from recycling water to waste reduction, utilization of waste heat and Zero Liquid Discharge. He continues to develop new technologies focused on minimizing industrial waste and non-invasive lithium extraction for electric vehicles.



**Rob Kindle**  
**Chief Executive Officer and CFO**

Rob Kindle, CEO and CFO of NexGen, brings many years of experience in corporate finance, investment banking, and investor relations to NexGen's corporate structure. Previously Kindle was an investment broker and served as branch manager for a brokerage firm in Fort Collins, Colorado. He has founded two natural resource companies and has been integral in bringing several others public.



**Bob Craig**  
**Chairman of the Board**

Our chairman Bob Craig established American Surveys, LLC, a professional Land Surveying Company in Denver, Colorado. He founded and owned a private natural gas exploration and production company based in Wyoming. Prior to that, Craig served as a Vice President at JP Morgan Chase, a commercial banking firm in which he managed a commercial banking sales force.