Rev 25 June 2013

OriginOil®

Company Presentation

www.originoil.com

A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

Important Disclaimer

Matters discussed in this presentation contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. When used in this presentation, the words "anticipate," "believe," "estimate," "may," "intend," "expect," “poised,” and similar expressions identify such forward-looking statements. Actual results, performance or achievements could differ materially from those contemplated, expressed or implied by the forward-looking statements contained herein. These forward-looking statements are based largely on our expectations and are subject to a number of risks and uncertainties. These include, but are not limited to, risks and uncertainties associated with our history of losses and our need to raise additional financing, the acceptance of our products and technology in the marketplace, our ability to demonstrate the commercial viability of our products and technology and our need to increase the size of our organization.

Further information on our risk factors is contained in our quarterly and annual reports as filed with the Securities and Exchange Commission. As a result there can be no assurance that the forward-looking statements included in this presentation will prove to be accurate or correct. In light of these risks, uncertainties and assumptions, the future performance or events described in the forward-looking statements in this presentation might not occur. Accordingly, you should not rely upon forward-looking statements as a prediction of actual results and we do not assume any responsibility for the accuracy or completeness of any of these forward-looking statements. We undertake no obligation to revise or update publicly any forward-looking statements for any reason.

OriginOil: In a few words

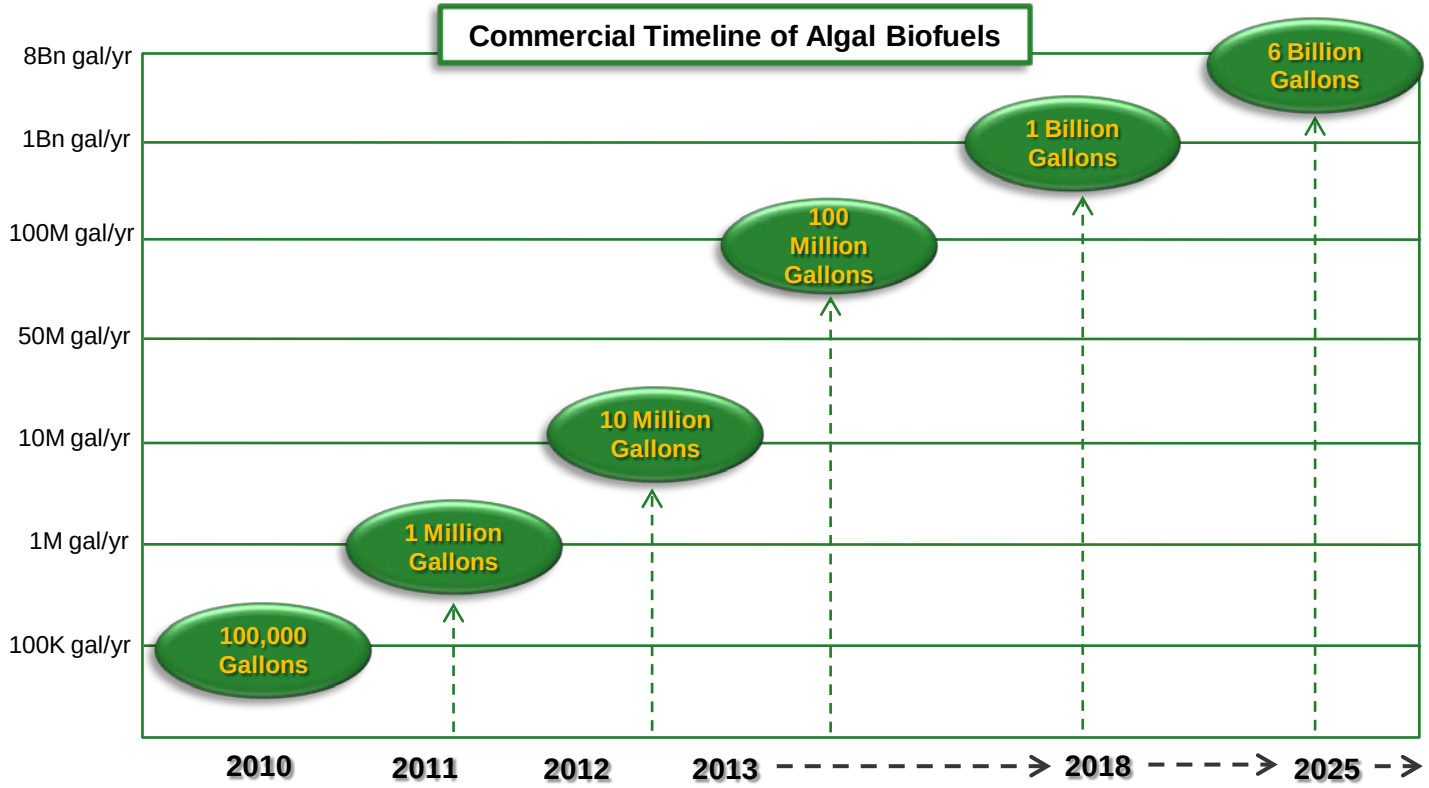
- OriginOil develops & licenses **breakthrough technologies** that solve problems in expanding **multi-billion-dollar energy industries**
- Proprietary technologies **boost yields, cut costs, and optimize profits** in:
  - Algae harvesting and shelf life
  - Decontamination of oil & gas frack water
- Independent tests and trials in US government and commercial labs as well as Pacific Rim and European partner sites verify breakthrough results
- Technology protected by **29 pending patents** (first granted in Australia)
- Income streams from scale-up and deployment partners
- Creating and receiving **enthusiastic media coverage**
- Loyal following of **committed shareholders**
- **Proven management team** with extensive industry experience

From R&D to Commercialization

THE ALGAE MARKET TAKES OFF

Algal Biofuels: An Engine of Growth

- World biofuels market is expected to grow at a CAGR of 12%+ through 2017
- **$105.4 billion** annual revenue forecast for 2018



Sources: Algae 2020, Emerging Markets Online Consulting Services, Biofuel Digest

Algae

- **Large Addressable Market**
  - 2010 Algae Biofuels market: $217 million
  - Forecasted to grow to $1.6 billion by 2015 with advanced technologies up to one-third of market ($530m)
- **Proprietary Value-Added Product: Solution to Industry Problem**
  - Extracting algae from the water it grows in is industry's greatest challenge
  - At harvest, algae is highly diluted—up to 1000:1 water to algae ratio
  - Other harvesting solutions are slow, costly, energy-intensive, and/or toxic
  - OriginOil's process produces shelf-stable product – essential requirement.
- **Algae as a Commodity**
  - Algae fuel producers receive $1.01/gallon tax credit on output in 2013
  - Emerging markets for high value end products: fuel, chemicals, feed, fertilizer
  - Mounting global pressure for renewables (e.g. France's Green Buildings law)
  - China and India pushing for clean energy technology

Source: Algae Biofuels Production Technologies Worldwide Market Research Report

The OriginOil Algae Solution

- OriginOil's breakthrough algae harvesting system:
  - Lowest CapEx and OpEx dewatering process
  - High speed
  - Energy efficient
  - Chemical free
  - Scalable
  - Reduces bacterial load (CFU/g*)
  - Upstream and downstream integration
  - Now a standardized, selling product line: The Algae Appliance™

** colony-forming unit per gram is an estimate of viable bacteria present in a solid sample*

The Algae Appliance, Model 4 (AA4)

- Fully integrated algae harvester
  - Dewaters efficiently, producing 5% solids paste
  - Decontaminates to extend shelf life by reducing bacteria
- Model 4 delivers up to 4 LPM*
  - In commercial production and sales
  - Processes 20% of daily harvest at 30,000-liter/day facility
  - Entry-level, low-cost
  - Testing, R&D, process improvement
  - Options: Decontamination, pre-harvest stimulation, capacity upgrade
  - Operator training, literature, and support included
- 200 LPM (50 GPM) model available

** Liters per minute*

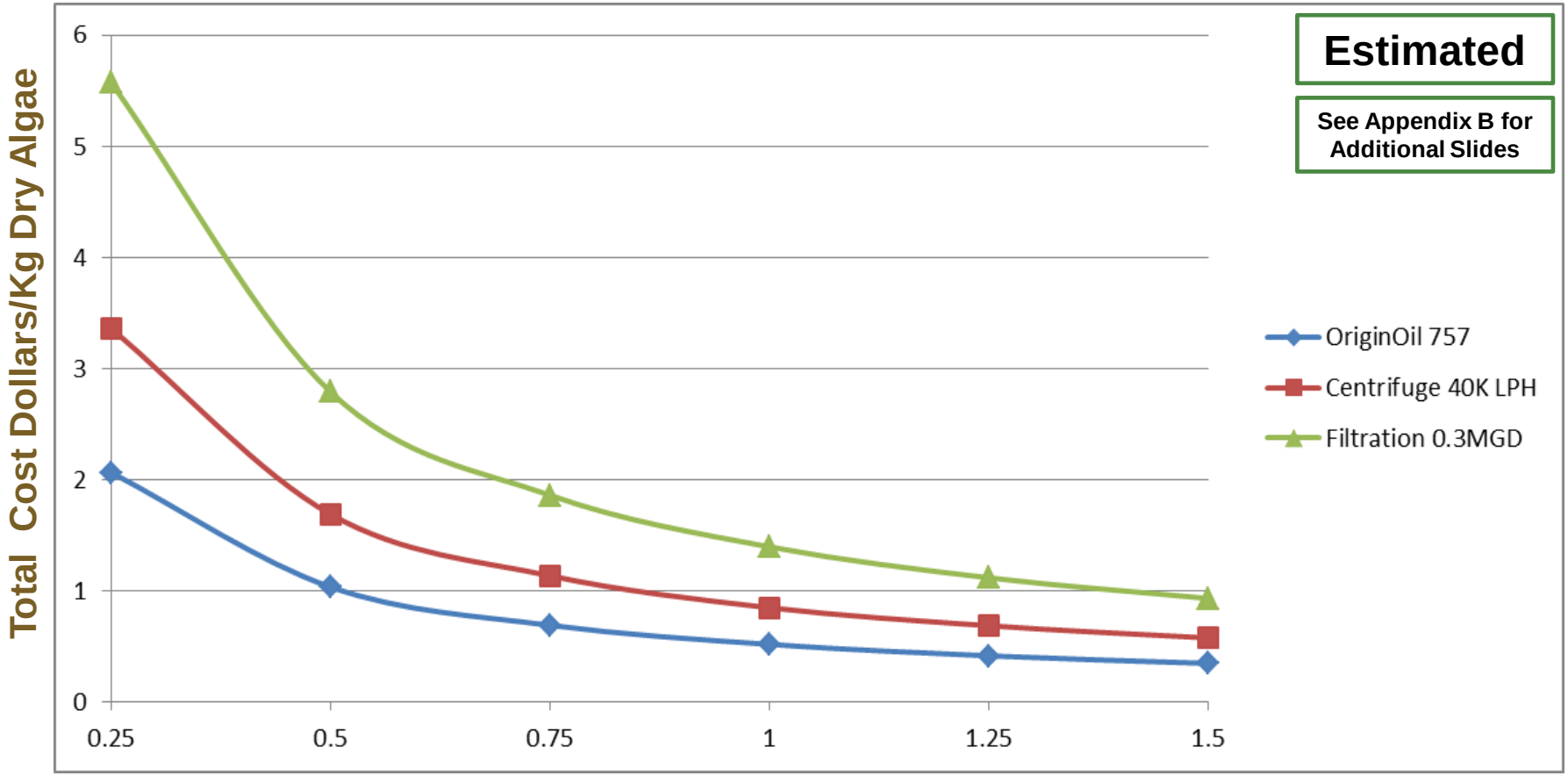
Versatile, Adaptable, Rugged

- Operates with all algae types and conditions: Any strain, salinity, degree of contamination, temperature, growth environment (light or dark)

Harvesting algae grown in light

Harvesting algae grown in dark

Total Cost of Harvesting in US dollars per Kilogram of dry Algae for different culture densities (USA Scenario)



A BREAKTHROUGH ENERGY PRODUCTION PROCESS
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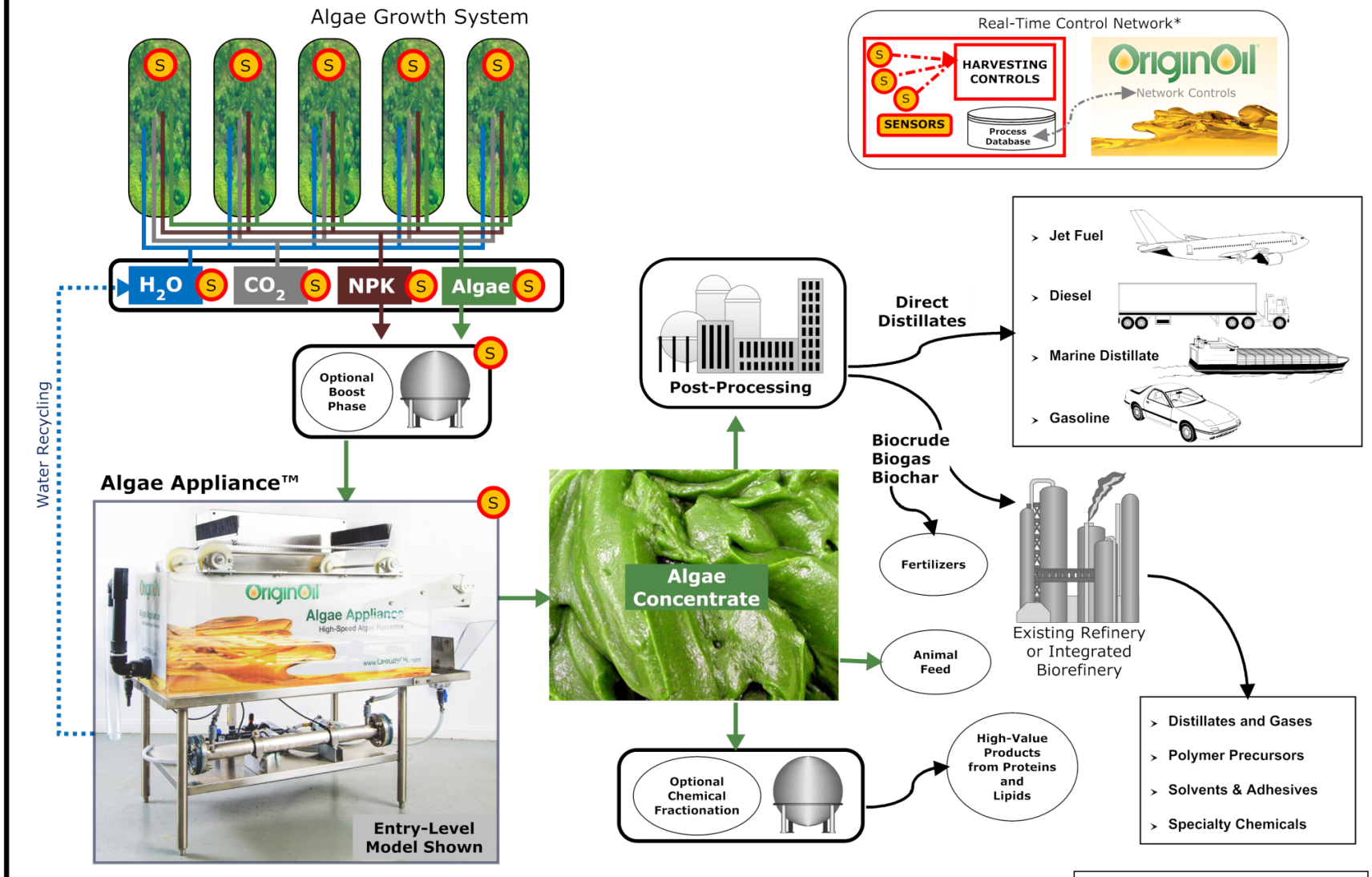
HIGH-SPEED ALGAE HARVESTING



* = Future Functionality

S = OriginOil Sensors

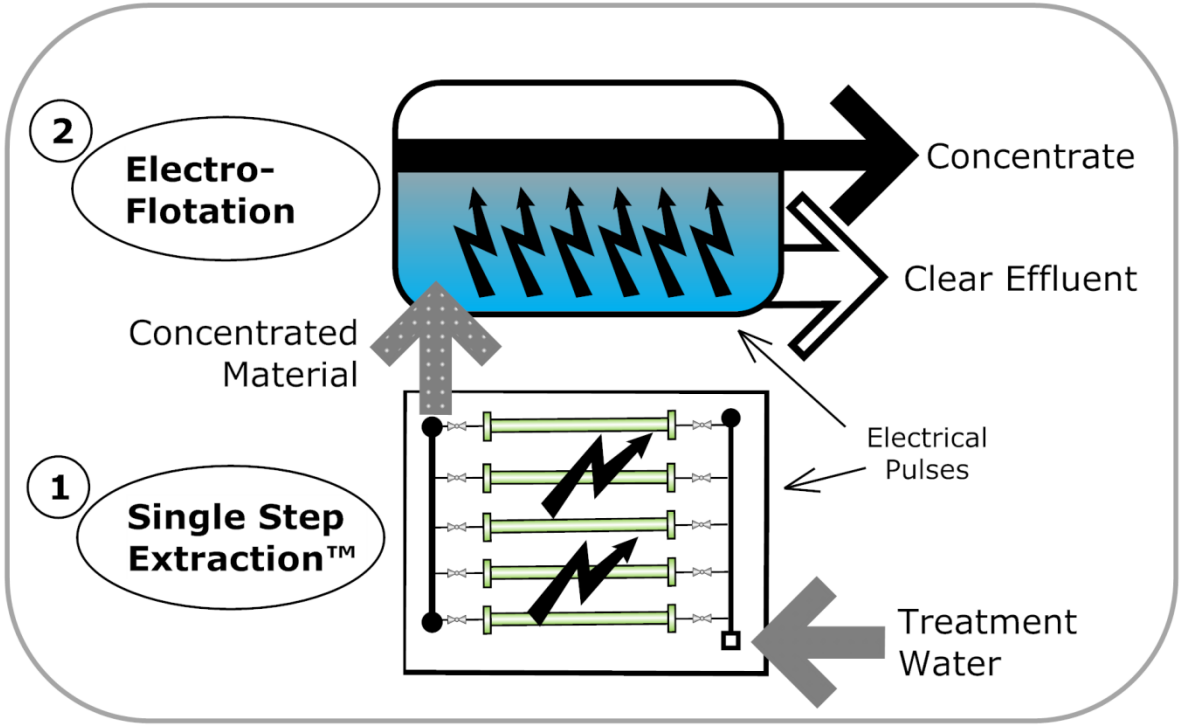
DATE 8 October 2012

REVISION B - 9 October 2012

Electro Water Separation™ Technology

Two Stages:

1. **Single-Step Extraction™** neutralizes algae cells' electrical charge allowing algae to clump together (flocculate)
2. **Electro Flotation™** creates a cloud of micro-bubbles pushing algae solids upward for surface collection



Stage One: Efficient Dewatering

- Single Step Extraction eliminates barriers created by current dewatering methods
- Bacterial reduction extends shelf life in harvested product, and reduces bacterial contamination in the growth cycle.

	MEMBRANE	CENTRIFUGE	CHEMICAL	MECHANICAL	ALGAE APPLIANCE
Chemical-Free	✓	✗	✓	✓	✓
Low Energy	✓	✓	✗	✓	✓
Continuous Process	✓	✓	✓	✗	✓
Low Cost	✗	✗	✗	✗	✓
Bacterial Reduction	✗	✗	✗	✗	✓

Stage Two: Integrated Concentration

- Electro-Flotation process integrates with the extraction stage to concentrate the algae into a high-density slurry
- No further equipment is required to achieve ~5% solids concentration
- Surface concentrate and clear effluent are fully ready for next steps

Proof of Concept & Commercial Validation: Field Tested in Australia

- OriginOil Announces Successful First Phase of Commercial Pilot Program
- Scaled up to 75 GPM capacity for MBD Energy's one-hectare power plant in Australia, now in commissioning process

> "We are very pleased with OriginOil's flawless demonstration of its CO_2 feeding and algae extraction systems. We are also impressed with the quality of engineering and expertise of the team as algae growers and harvesting specialists."
>
> - Andrew Lawson, Managing Director, MBD Energy

Demonstration Site in Paris

- OriginOil shipped the first production model of its Algae Appliance™ harvester to Paris-based Ennesys, our urban algae joint venture.
- Ennesys launched its demonstration site in November 2012, featuring OriginOil harvesting technology.

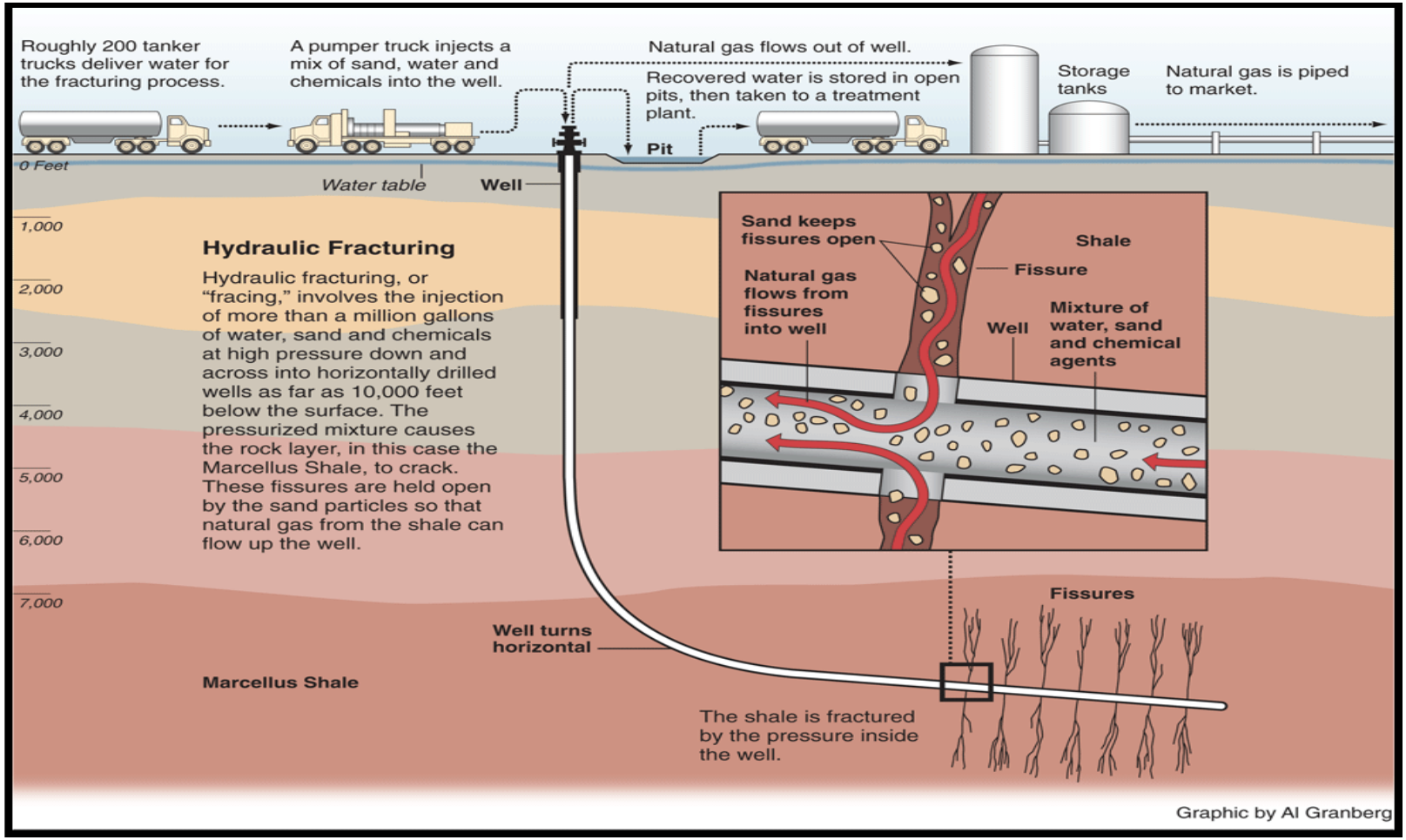
FRACK & PRODUCED WATER REMEDIATION IN OIL & GAS DRILLING

Overview: Produced Water vs. Frack Water

- Produced water resides naturally underground and comes to the surface during oil and gas drilling
  - 3–12x as much water is produced as oil
  - Highly contaminated with hydrocarbons and drilling chemicals
  - ~29% must be disposed of underground or treated
- Fracking injects chemically treated water underground at high pressure to fracture rock formations and release oil & gas
  - Uses 70–140 billion gallons/year in 35,000 wells, per WSJ and EPA
  - Cost to purchase water: as high as 10–14¢/gallon
  - 20–40 billion gallons/year resurface and must be trucked, treated or disposed of
  - Old treatments cost up to 21¢/gallon or $61,000/well; Disposal = $33,000/well
- Harsh financial, environmental, and public relations impacts
  - Treatment and disposal currently cost the industry billions
  - Disposal in wells contaminates ground water
  - One million new wells to be fracked by 2035*

** Schlumberger*

What is Produced or Frack Water?



Addressable Market

- The industry pays $3–$12 per barrel to dispose of produced water, creating a $5 billion potential market that will reach $10 billion by 2025*
  - Equipment to treat produced water is a $693 million market; $2.9 billion by 2025*
- Lux Research forecasts frack water market to grow nine-fold to $9 Billion by 2020
  - 28% annual growth in water treatment
- Frack water treatment is relatively new compared to disposal
  - Ideal prospects are oil-service companies that offer full-service trucking, disposal; and water treatment, including:

Aquatech, H2O TECH, HALLIBURTON, purestream technology, POSEIDON CONCEPTS, HECKMANN CORPORATION, GE, ecosphere

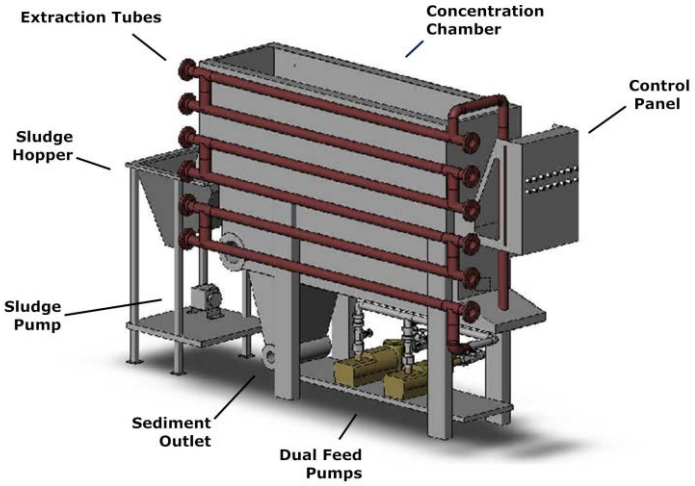
** Global Water Intelligence*

Frack Water Market Opportunity

- Current treatment solutions are costly and environmentally unsound
  - Evaporation in pits/ponds
  - Disposal wells
  - Re-injection into well
  - Discharge to POTWs
- OriginOil's algae-harvesting technology, CLEAN-FRAC™, is a game-changer
  - Removes 98% of organic contaminants and reduces heavy metals
  - Prevents well-fouling by reused water
  - Recovers petroleum
  - Enables desalination
- CLEAN-FRAC has far-reaching financial, environmental and practical advantages in oil & gas water cleanup and reuse
  - Low energy use
  - Economical
  - Environmentally-friendly

What is OriginOil's CLEAN-FRAC?

- High-speed, efficient, low energy, chemical-free, continuous process that removes oils, suspended solids, insoluble organics and kills bacteria in produced or frack water
- Proprietary electro-coagulation, flotation and separation technologies
  - Breaks up the oil-water emulsion
  - Coalesces oil droplets so they float
  - Enables separation, recovery, and further treatment of water and oil
- Standalone unit or may be integrated into multi-stage systems* to meet standards for drinking water



** OriginOil technology is being integrated into larger systems by its OriginOil Equipment Manufacturers (OEMs).*

Why OriginOil's CLEAN-FRAC?

- More economical: $42,000/well in savings
  - Treating: 21¢/gallon
  - Disposal: 11¢/gallon
  - **New Processes integrating CLEAN-FRAC could reach as low as <u>7¢/gallon</u> (est.)**
- More environmentally-friendly
  - Tests show CLEAN-FRAC removed 98% of hydrocarbons from West Texas frack flowback sample in minutes
  - Improves water clarity by 99%
- Validated as "game-changer for oil and gas industry"*
- Based on field-proven technology.

Floating oil mat

Clarified Water

** Pacific Advanced Civil Engineering (PACE), water treatment engineering firm*

Competitive Landscape

- **Disposal** is most common remediation for frack flowback water
  - In deep wells: costs up to 11¢/gallon and no new wells are permitted
  - Evaporation in settling ponds: poor evaporation and disposal of solids still an issue
  - Disposal in water treatment plants: expensive and high salinity is an issue
  - Reuse in subsequent fracking operations: prior treatment typically required
- **Treatment** for reuse or return to groundwater
  - Evaporation, vapor recompression, chemical flocculation, membrane filtration, and electro-coagulation are major methods used
  - Electro-coagulation has lowest OpEx – typically used with dissolved air flotation (clarifier) and reverse osmosis membranes
- CLEAN-FRAC integrates **electro-coagulation, dissolved gas flotation and clarification** in one unit, for lowest OpEx and CapEx

Market Positioning for Success

- Positioned to penetrate the oil & gas water remediation market
  - Best-performing technology for removal of organic compounds
  - Lowest CapEx and OpEx of any competing technology
  - Signed two strategic partners with relevant technical expertise, credibility and relationships to leverage and complement CLEAN-FRAC
    - Pacific Advanced Civil Engineering (PACE): Respected, award winning engineering firm specializing in water treatment processes
    - Clean Water Technology, Inc. (CWT): Well known, high quality manufacturer of water treatment equipment specializing in dissolved air flotation
  - Focusing efforts on partnering with in-position oil & gas service companies
  - Strategy of licensing OEM manufacturers
    - Identified over a dozen water treatment companies as OEM prospects that could benefit from CLEAN-FRAC as a precursor
  - Strategy of licensing foreign distributors

Licensing Revenue Strategy

- Develop network of OEMs to license & manufacture technology
  - In talks with approximately a dozen manufacturers with complementary equipment in oil & gas market, including:
  - Manufacturers in other markets such as industrial waste water
- Develop network of strategic partners to license & manufacture technology
  - Major oil service companies, such as BakerCorp, Key Energy, and Heckmann
  - Equipment manufacturers, such as Clean Water Tech
- Licensing potential to foreign distributors for global sales
- First OEM license granted to PEARL, system integrator and operator
- Engineering firms and system integrators license rights to incorporate OriginOil technology into larger process systems

Oil & Gas Value Chain/Strategic Partners

Licensor	OEMs fabricate Clean-Frack systems for distribution	Clean-Frack systems sold through distributors or system integrators	Service companies utilize Clean-Frack systems to provide services	End customer who purchases supplies and services for their operation
OriginOil	**Original Equipment Manufacturers**	**Distributors & System Integrators**	**Oil & Gas Service Companies**	**Oil & Gas Well Operators**
	CWT	PACE	HECKMANN CORPORATION	
	POSEIDON CONCEPTS	CAMERON	DRESSER	ExxonMobil
	World water works		Schlumberger	Chesapeake ENERGY
	PALL Pall Corporation	SIEMENS	purestream technology	PetroChina
	ecosphere	HIGH SIERRA	VEOLIA	Qatar Petroleum

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Sales Strategy

- Primary sales pipeline will be through oil & gas service companies
  - Existing field presence in varied products and services
  - Will purchase equipment from OEMs
  - OEMs pay licensing fees to OriginOil
  - Service companies become sales arm and distribution channels

    BAKER HUGHES Schlumberger HALLIBURTON DRESSER
  - More than 80 other significant oil & gas service companies
- OEMs will build & sell systems, paying royalties to OriginOil
- Other players will act as specifiers of OriginOil technology
  - Oil & gas well operators, engineering firms, system integrators, and specialty service companies

Sales Forecast

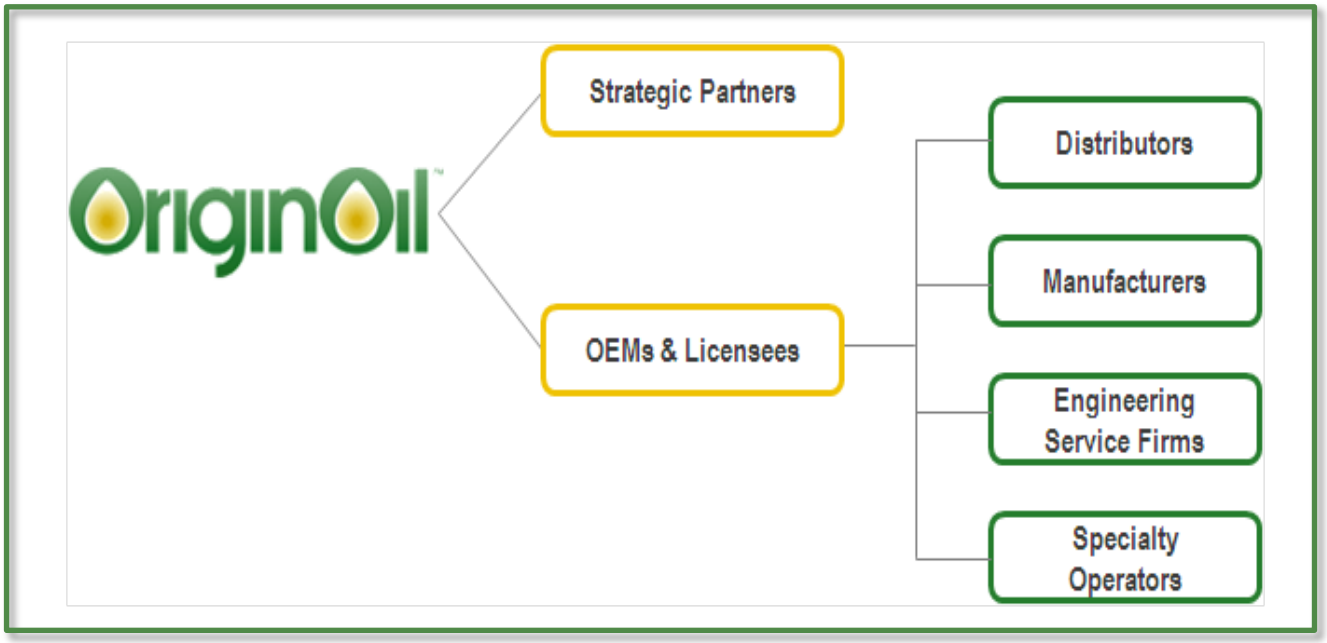
- Cumulative impact of market factors point to success
  - Today's market: $1.25 billion
  - Market growth of 28% per year to $9 billion in 9 years
  - More than a dozen US OEMs with symbiotic processes
  - Many potential technology system integrators and specifiers
- OriginOil offers the most effective first-stage system
  - Best performing technology for removal of organic compounds
  - Lowest cost (CapEx and OpEx) of competing technologies
- OriginOil Clean-Frac competitively priced to maximize profits and royalties

Lean, Leveraged, Partnered

ORIGINOIL'S BUSINESS MODEL

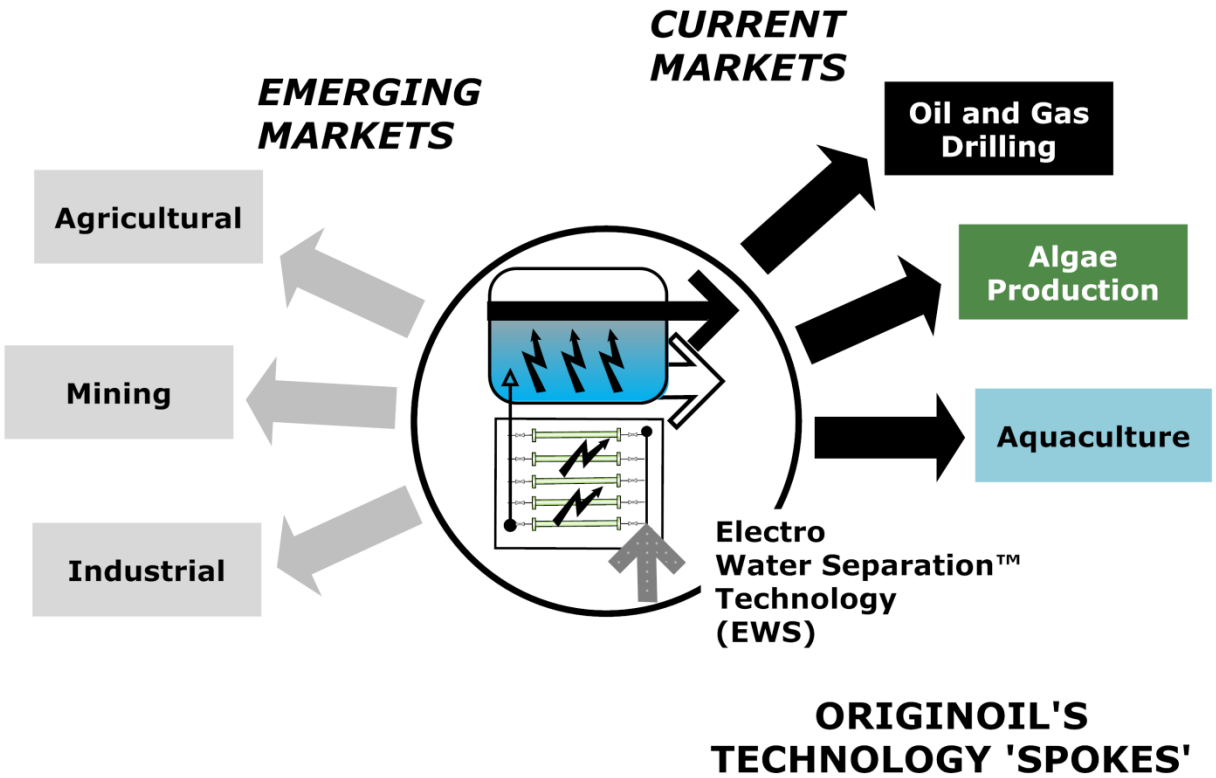
Compact, Profitable, Logical

- **Immediate:** Proving and improving our proprietary technologies in strategic, real-world partner settings
- **Long term:** Licensing and distribution into all relevant industries



Core Focus and Additional Opportunities

- Concentrate technology and marketing on the world's largest market: fossil based energy.
- Increase shareholder value by out-licensing into other markets.



Key U.S. Government Partnerships

- Present: OriginOil delivering test systems to Idaho National Lab.
- *Jan 2012:* "OriginOil and Department of Energy to Develop Direct Conversion of Algae into Renewable Crude Oil for Existing Oil Refineries"
- *Dec 2011:* "OriginOil Enters Joint Venture to Develop Biorefineries for U.S. Department of Defense Biofuels Programs"
- *Dec 2011:* OriginOil & DOE co-announce research agreement to define industry standards for blending algae & multiple feedstocks

"We are excited to work with OriginOil on its Biocrude System and leverage its algae processing expertise and technology.

"Algae is a high energy biomass and can function as a force multiplier to blend in other biomass waste such as from forestry and agriculture into a uniform renewable crude oil substitute.

"This may well support the U.S. military's strategic fuels diversification program."

- Dr. Deborah T. Newby, Project Manager, Dept. of Energy, Idaho National Laboratory

Reference Sites & Agreements: North America

- **PACE Advanced Water Technology (USA)**
  - Present: Positive tests on frack and produced water; building large-scale prototype.
  - *Oct 2012:* First OEM license granted to PACE/PEARL, system integrator-operator
  - *May 2012:* Began JV to improve petroleum recovery and water cleaning for re-use
- **United States Department of Energy – Idaho National Laboratory**
  - *Present:* OriginOil systems being deployed for "algae to bio-oil" research
  - *Jan 2012:* Agreement to develop algae-to-crude conversion technology for refineries
  - *Dec 2011:* Research agreement to establish standards to blend algae & feedstocks
  - *Oct 2009:* Phase 1 of R&D agreement to develop blendable feedstock completed
- **LH Opportunity Group**
  - *Present:* Ensteel Industries designing continuous oil recovery and water system

Reference Sites & Agreements: Europe

- **Ennesys (France)**
  - *Present:* OriginOil algae harvesting system deployed at demo site.
  - Dec 2013: demo site launches with Algae Appliance
  - *Jun 2012:* Algae Appliance™ ships to demo site at Paris La Défense
  - *May 2011:* JV with UK incubator PJC; forms Paris-based system integrator, Ennesys
- **Algasol Renewables (Spain)**
  - *Present:* Bundling Algasol's patented cultivation technology with Algae Appliance
  - *May 2012:* Collaboration to develop integrated algae growth and harvesting system

Reference Sites & Agreements: Pacific Rim

- **Research Institute of Tsukuba Bio-tech (Japan)**
  - *Present:* Tsukuba University professor pursues algae-to-oil & aircraft fuel production
  - *Aug 2012:* RITB receives gov't funding for algae biofuels program
  - *Dec 2009:* RITB announces first partnership with OOIL
- **MBD Energy (Australia)**
  - *Present:* OriginOil updating technology installations at research and power station facility.
  - *Aug 2011:* Orders exceed $1 million
  - *May 2010:* Becomes our first algae-producing customer

SOLID BUSINESS FOUNDATION

Equity Structure Q1 2013

- Total equity raised as private company in 2007: $1.7 million (28%)
  - Founders – 18.3%
  - Seed investors – 5.1%
  - Pre-IPO investors – 2.6%
- Total equity raised as public company 2008-2013: $14.2 million (74.1%)
- Total equity raised since founding: $15.9 million
- Total share issuance: 23,305,510 Common Shares (no Preferred)
- Contingent commitments:
  - 16.2 million warrants @ $0.77 average strike
  - 465,294 stock options @ $1.67 average strike

Source: OriginOil 10-K, 16 April, 2013

Factors Not Yet Priced in Stock

- Market drivers gaining momentum, trajectory not priced into market
  - Marketing globally to motivated nations and industries
    - $1.01/gallon tax credit to U.S. algae fuel production facilities
- Value of technology and IP have not been priced into market
  - Enabling technologies for algae sector and frack water purification
    - Prosecuting 29 patents, the first granted in Australia
  - Fast innovator with breakthrough field-proven, extraction systems
- Sales pipeline and rapid market penetration has not been priced into market
  - Revenue with on-site demo units; licensing underway
  - Partnered with two US government agencies on advanced fuels research
  - Strong marketing and public relations presence and acceptance

Intellectual Property Portfolio*

- Primary focus is company's core technology: Dewatering
  - First application: Single-Step Extraction™ (Apr 17, 2009), a revolutionary acceleration of algae harvesting, now transforming frack water cleanup
  - First patent granted in Australia (Sep 6, 2012)
  - Myriad of applications for OriginOil's proprietary technologies:
    - Extraction of Non-Polar Lipids
    - Dewatering System
    - Live Extraction™
    - Growth Acceleration System
    - Hydrogen-Enriched Algae Harvest Process
    - Uniform Intermediate Feedstock
    - Supervisory Control & Data Acquisition
    - Enhanced Chemical-Free Extraction
    - Energy Reduction by Monitoring Cell Charge
    - Algae Harvesting Appliances 1 & 2
    - Electro Water Separation (EWS)

** Partial list; Published patent applications are hyperlinked; Patent Counsel: Kirton McConkie*

Intellectual Property Portfolio (cont'd)*

- Extensive non-core IP for future licensing:
  - Quantum Fracturing™ (active PTO review)
  - Helix Bioreactor™(active PTO review)
  - Modular and Scalable Growth System
  - Dynamic Control System
  - Hydrogen Harvester™
  - Algae Screen™
  - Optimizing Photosynthesis in Photo Bioreactor

** Partial list; Published patent applications are hyperlinked; Patent Counsel: Kirton McConkie*

Management Team

- **Bill Charneski, Chief Operations Officer**
  - Responsible for the company's day-to-day operating activities, including revenue and sales growth; expense, cost and margin control; and monthly, quarterly and annual financial goal management.
  - Chemical process engineer, plant manager, regional sales manager at Dow Chemical
  - Process development, industrial equipment design, manufacturing, plant operations
- **Alex Leshnick, Vice President of Technology**
  - Facilitates invention, prosecutes and litigates Intellectual Property, carries out studies and validations and manages governmental projects.
  - At USC, managed more than 150 technologies including several hundred patents and patent applications
  - Registered patent agent and licensing expert
  - BS Genetics, UC Davis; USC Marshall School of Business Entrepreneurial Studies

Research and Operations Team

- **Nicholas Eckelberry, Co-Founder, Chief Inventor**
  - Co-founder, OriginOil, 2007 through present
  - Creative genius, authored/co-authored 13 enabling patent applications in algae production and commercialization
- **Jose Sanchez, Vice President of QA and Services**
  - Executive in product development and intellectual property; developed algae production systems; designed Mexico's first biodiesel plant; advised lawmakers in creating and establishing Mexico's biofuel industry
  - Named to Biofuels Digest's 2012-2013 "Top 100 People in Bioenergy" award
  - BSME and MS in manufacturing systems, Instituto Tecnologico de Monterrey
  - MS in Environmental Health Management, Harvard University
- **Andrew Davies – Operations Manager**
  - 14 years of experience in construction and fabrication.
  - Instrumental in designing and building the company's first specialized Electro Water Separation™ devices.

Industry and Scientific Advisory Board

- **R. Gerald Bailey, PhD — Oil and Gas Industry Advisor**
  - Chairman, Bailey Petroleum LLC, energy business development
  - Former President, Exxon, Arabian Gulf, Abu Dhabi and UAE
  - PhD, Chemical Engineering; BS, Univ. of Houston
- **Thomas H. Ulrich, PhD — Public-Private Sector Advisor**
  - 25+ years planning, securing funding and principal scientist in industry & DOE's INL
  - Commendation and Certificate of Appreciation, DOE Office of Energy Efficiency
  - PhD, Agronomy, Univ. of Illinois; MS Genetics, BS Zoology, Washington State Univ.
- **Vikram Pattarkine, PhD — Consulting Scientist**
  - 25+ years chemical/environmental engineer in waste treatment, water quality, renewable energy
  - Scientific and Technical Advisory Committee of Chesapeake Bay Program, Municipal Wastewater Treatment Design Committee of Water Environment Federation
  - PhD, Environmental Engineering, Virginia Tech; M.Tech, Chemical Engineering, Nagpur U.; Adjunct professor of environmental engineering at the U of Missouri.

CEO and Board

- **Riggs Eckelberry – President and CEO**
  - Co-founder of OriginOil Inc., co-inventor of OriginOil technology
  - Directs company strategy, OriginOil spokesperson in scores of articles and videos
  - Advisory Board of National Algae Association
  - Named to Biofuels Digest's 2012-2013 "Top 100 People in Bioenergy"
  - Veteran executive setting records at YellowPages.com, Panda and CleanSweep
- **Ivan Ivankovich – Director**
  - 19+ years financial and operational expertise
  - Consulting CFO and financial advisor to several high-tech companies
- **Steve Glovsky – Director**
  - Business consultant to tech and media companies including manufacturing robotics
- **Anthony Fidaleo – Director**
  - Finance executive with 25+ years experience as CPA, CFO, COO and executive vice president of public and private companies

APPENDIX A

Most-Recent Recognitions

- Aquaculture application featured in 10 Algae Trends for 2013 (Biofuels Digest)
- *Popular Science* magazine honors Algae Appliance in "Best Of What's New 2012," Green category
- Named in *Biofuels Digest* "50 Hottest Companies in Bioenergy" of 2012-2013
- Eckelberry and Sanchez recognized in *Biofuels Digest* 2012-2013 "Top 100 People in Bioenergy"
- Australia grants patent on OriginOil algae harvesting technology
- First production system shipped to Ennesys for urban algae deployment
- In third-party testing, OriginOil technology removes and recovers 98% of hydrocarbons in Oil & Gas frack and production water
- OriginOil launches Oil and Gas Division, appointing former President of Exxon Arabian Gulf as our industry advisor

OriginOil Media Coverage

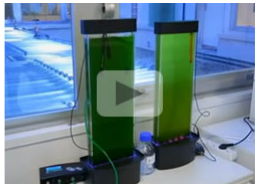
- See over 40 OriginOil videos on [OriginOil's Web site]
- Continuous, Broad Media Coverage:

OriginOil on Voice of America: Fracking Could Lead to Big Profits for Some Companies

On April 4, 2013: Voice of America's Greg Flakus interviews OriginOil CEO Riggs Eckelberry and GM Bill Charneski on the company's plans to cleanup produced and frac water and recover lost oil using its CLEAN-FRAC™ technology

Reuters Video: In Paris, Urban Algae Turns Wastewater Into Energy

On December 3, 2012: Reuters reports on how OriginOil has joined forces with French firm Ennesys to develop a process that converts commercial buildings' wastewater into energy.



OriginOil on KGET-TV

28 February 2013: KGET, Bakersfield, CA's NBC Affiliate, reports on OriginOil's recent testing at the Lost Hills oil complex near Bakersfield, including footage of the testing and interview with OriginOil's GM of Oil and Gas Division, Bill Charneski.

OriginOil on Bloomberg Television's "Taking Stock"

On April 25, 2012: Riggs Eckelberry sits with Pimm Fox of Bloomberg TV and Jim Rogers of Roger Holdings to discuss the role that algae will play in the future of US energy policy.

OriginOil CEO on E & E TV

On January 28, 2013: Riggs Eckelberry appears on E & E TV and discusses company's frack water cleanup technology, plans to demo in Texas' Eagle Ford Shale and algae legislation.

OriginOil CEO on FOX Business News

On February 29, 2012: on Fox Business News, Stuart Varney interviews Riggs Eckelberry on how quickly algae can be scaled up to the millions of barrels needed to compete with petroleum.

News and Press Accolades

Feb 2013 through June 2013

- New Global Energy Adopts OriginOil Technology to Revitalize California Aquaculture Farms
- OriginOil Names Manufacturer for New Performance-Based Frack Water Cleanup Program
- Garden State bioEnterprises Adopts OriginOil Technology for High-Value Astaxanthin Harvesting
- OriginOil Accelerates Commercialization of CLEAN-FRAC System with First Commercial Unit Planned for 3rd Quarter
- OriginOil's CLEAN-FRAC™ Water Treatment System Yields Successful First Field Results
- OriginOil Strengthens Focus on Frack Water Cleanup
  - Launches Licensing Group to Accelerate Commercialization in Secondary Markets

April 2012 through Feb 2013

- OriginOil Partners with Aquaculture Producer to Transform $100 Billion Global Market
- FDA-audited lab test shows OriginOil Removes Up To 99% of Bacteria in Harvested Algae
  - Solving Key Barrier for Multi-Billion Dollar Industry
- OriginOil's Breakthrough Harvesting Technology Spotlighted in Launch of French Urban Algae Program
- OriginOil's Second Licensing Agreement Targets Canadian Oil Sands Market
- OriginOil receives first Australian patent
- OriginOil, Algasol ink pact to develop algae harvest, dewatering system
- OriginOil's algae harvest technology removes 98% of hydrocarbons from frack flowback

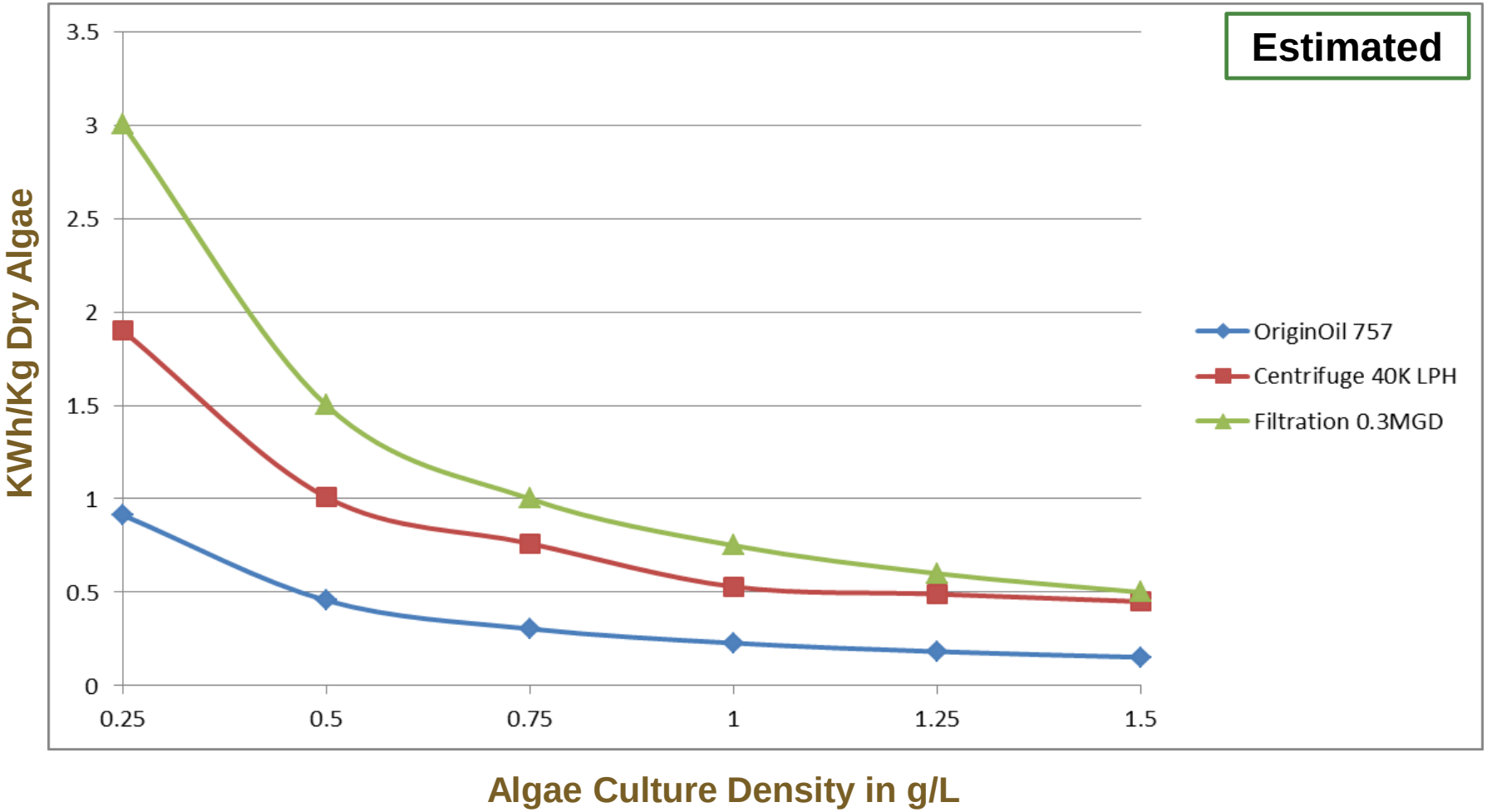
APPENDIX B – COST SAVINGS

Cost Savings Over Alternatives

Assumptions for Comparative Analysis on Harvesting Technologies

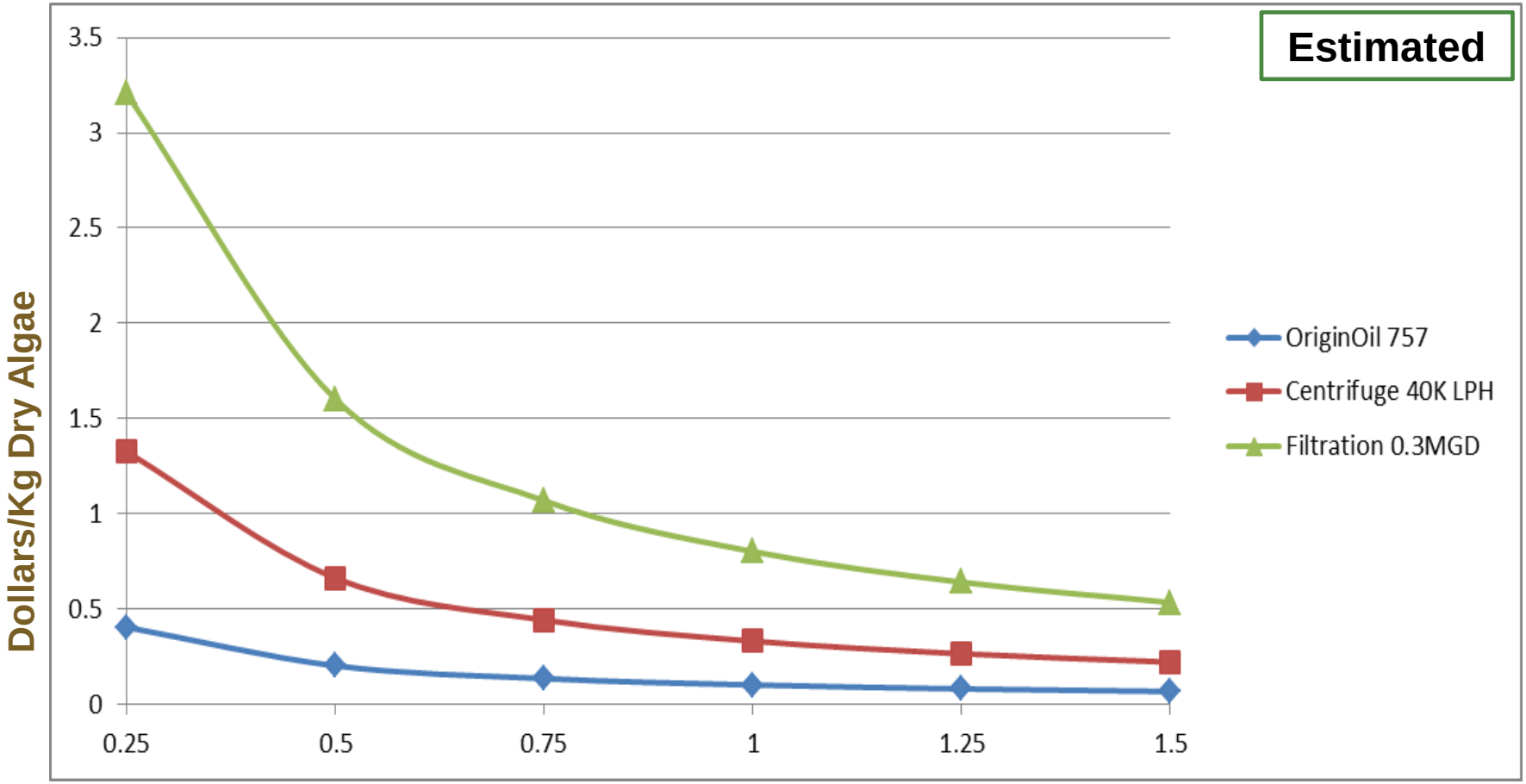
Equipment	OriginOil 757 LPM Rated Energy 11.5 KW 90% Harvesting Efficiency 18 h/Day, 360 Days/year	Centrifuge 40K LPH Rated Energy 21 KW 90% Harvesting Efficiency 18 h/Day, 360 Days/year	Filtration 0.3 MGD Rated Energy 47.3KW 75% Harvesting Efficiency 18 h/Day, 360 Days/year
Capital Cost Assumptions (assume the same in any country)	Initial Investment $260,000 USD financed in 10 years at 5% yearly interest rate	Initial Investment $750,000 USD financed in 10 years at 5% yearly interest rate	Initial Investment $2,575,000 USD financed in 10 years at 5% yearly interest rate
Operational Costs Assumptions (USA)	2 Operators @ $50,000 USD/year each + Mgt time $10,000 dollars/year + Yearly maintenance costs of 3% of initial investment	2 Operators @ $50,000 dollars/year each + Mgt time $10,000 dollars/year + Yearly maintenance costs of 3% of initial investment	2 Operators $62,400 dollars/year of Labor + Yearly maintenance costs of $136,628 USD + cost of chemicals $11,720 USD/year
Operational Costs Assumptions (India)	2 Operators @ $15,000 USD/year each + Mgt time $5,000 dollars/year + Yearly maintenance costs of 3% of initial investment	2 Operators @ $15,000 USD/year each + Mgt time $5,000 dollars/year + Yearly maintenance costs of 3% of initial investment	2 Operators @ $15,000 dollars/year each + Mgt time $5,000 dollars/year + Yearly maintenance costs of $136,628 dollars and Annual cost of chemicals of $11,720 USD

Harvesting Energy in KWh per Kilogram of dry Algae for different culture densities



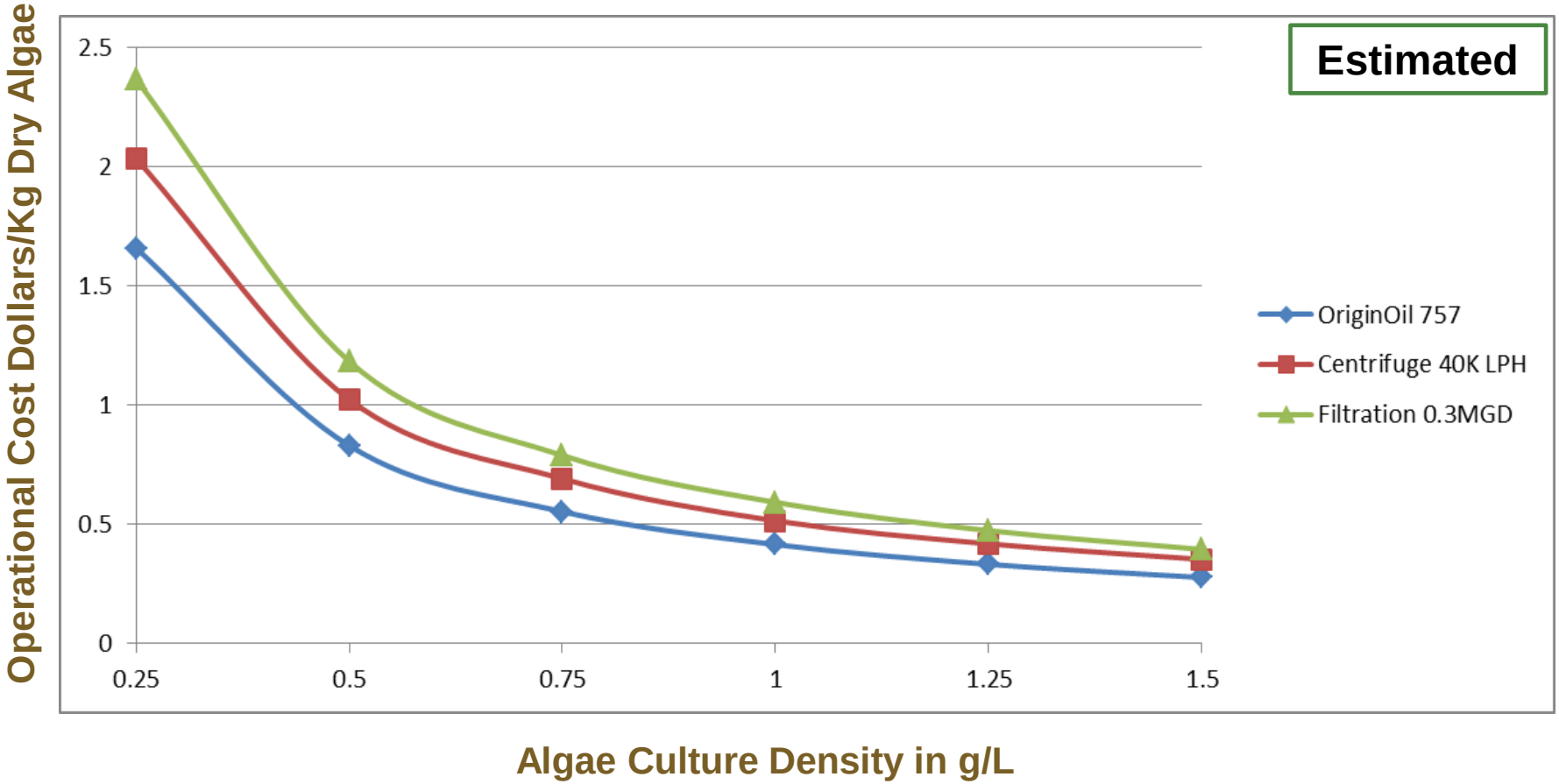
A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

Capital Cost in US dollars per Kilogram of dry Algae for different culture densities, USA and India scenarios



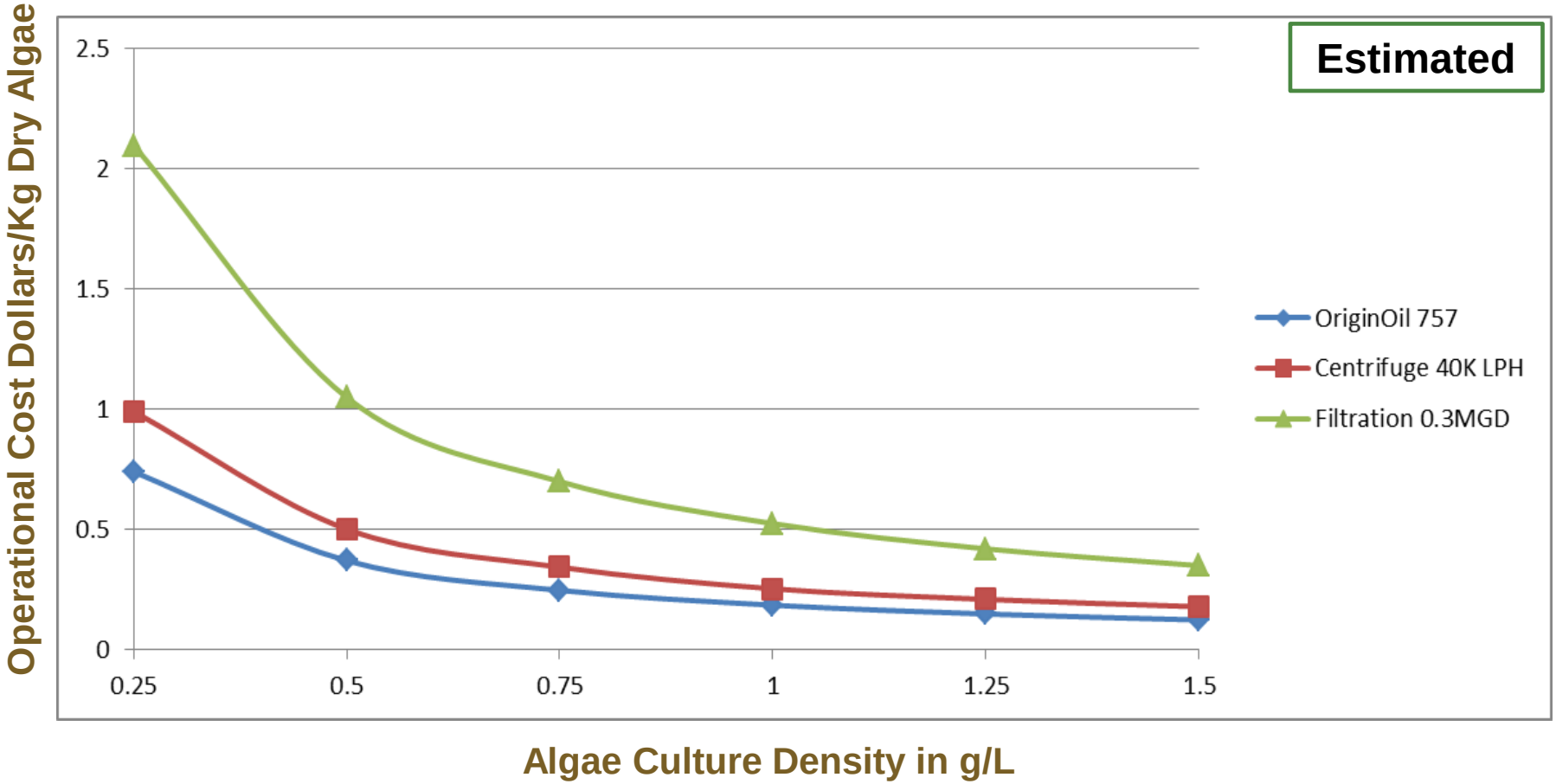
A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

Operational Cost of Harvesting in US dollars per Kilogram of dry Algae for different culture densities (USA Scenario)



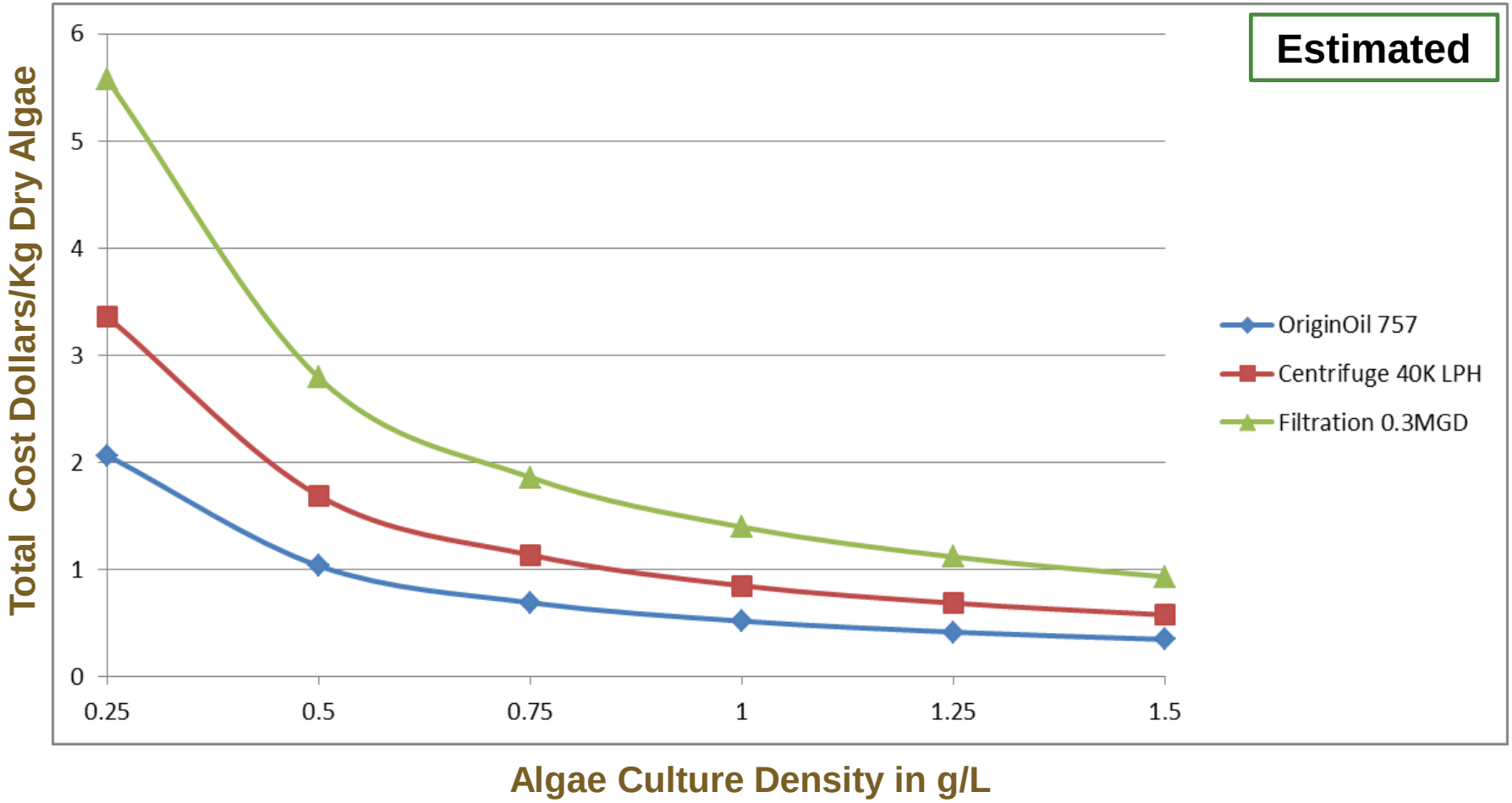
A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

Operational Cost of Harvesting in US dollars per Kilogram of dry Algae for different culture densities (India Scenario)



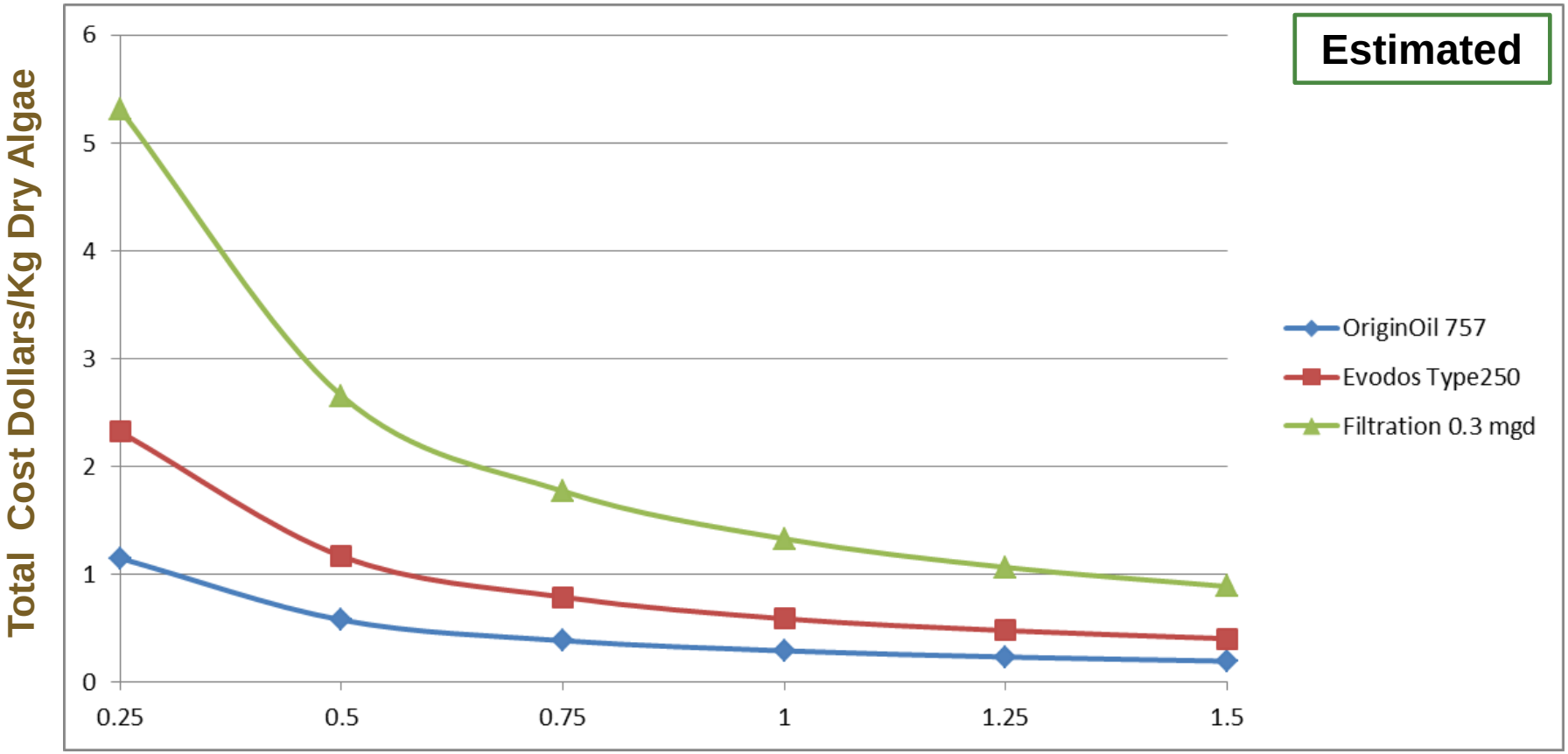
A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

Total Cost of Harvesting in US dollars per Kilogram of dry Algae for different culture densities (USA Scenario)



A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

Total Cost of Harvesting in US dollars per Kilogram of dry Algae for different culture densities (India Scenario)



A BREAKTHROUGH ENERGY PRODUCTION PROCESS
FOR THE OIL & GAS AND ALGAE INDUSTRIES

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