ECT SERVICES & SOLUTIONS, INC. (DOTECT.COM)

Talbott Howard, Chief Executive Officer

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ECOPOD system 1.0™





Chemical-Free Waste Water Restoration and Repurposing

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dotect.com
https://youtu.be/r7fwXo-z96g

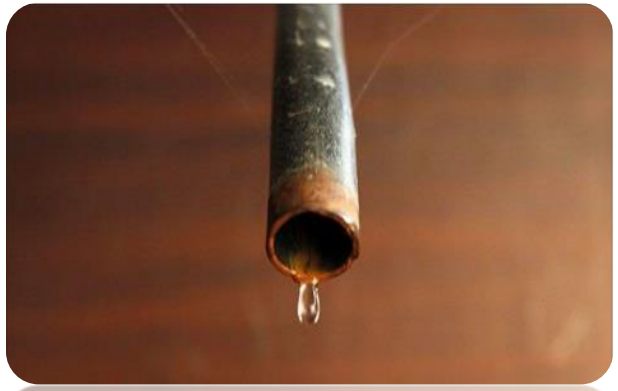
www.DOTECT.com

Answers Uncertain Times With Technology READY FOR MANFUACTURING AND MARKETING





North America spends $20,200,000,000.00 annually trying to prevent polluted water from entering where water is used most:







Society is more likely to succeed if good STEWARDS solve a real problem that affects a large number of people





Poisoning through ingested chemicals found in water affects millions of humans and livestock globally each year who become infected with:

- Rashes
- Stomach or liver illness
- Kidney diseases
- Respiratory problems
- Neurological affects
- Reproductive and developmental risks
- Cancer
- Death

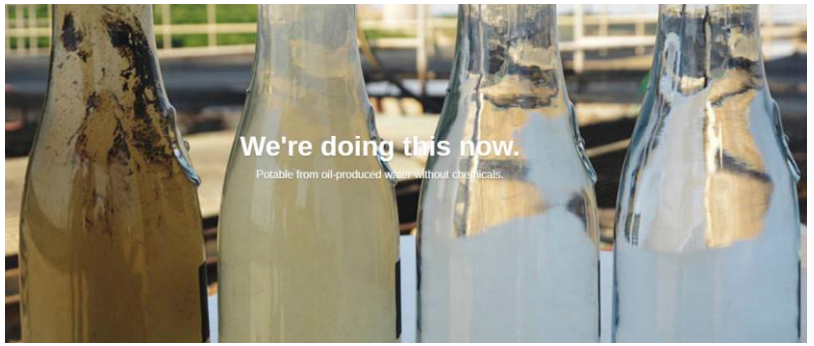




….All because we haven't demonstrated the ability to *renew* — not just "clean" — water at the point of need – JUST IN TIME.

History & Applications

- Founded in 2015: a pure technology company.
- Acquired core technology / patent providers in 2016 that:
  - Developed a breakthrough high-speed water cleanup technology using multi-stage electrochemistry: Electro Water Separation ™ (EWS).
  - Developed a continuation of the (EWS) applications using different alignments of the multi-stage electrochemistry: Electro Coagulation System ™ (ECOS).
- Aligned the market applications for produce water treatment, algal removal and storm run-off water applications.
- Commercialization of the technology through…
  - Joint Venture & Licensing to equipment makers.
  - Joint Venture partnerships with service providers.



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LEARNING FROM PAST SUCCESSES







ECT
BETTER + BETTER
FOR YOU



SERVPRO
Fire & Water - Cleanup & Restoration
of Fort Collins

308 N Link Lane, Fort Collins, CO 80524

ECT / SERVPRO LOI

June 14, 2015
SERVPRO of
Fort Collins, CO & Beverly Hills, CA

Dear Talbott,

I would like to formally engage ECT Services & Solutions Inc. regarding the future deployment of waste water treatment services. Your staff has on two separate occasions helped our firm reduce the cost of cleaning water by 75% using an onsite mobile clean water technology, versus having to use a waste hauler (subsidiary of Clean Harbors).

While the cost containment benefits of applying the technology are there the disaster recovery job availability is sporadic in nature. So it would be in the best interest of both ECT and us to explore ancillary opportunities that would benefit from this mobile application such as what you are proposing:

1. Building a service that treats contaminated water in industrial and farming applications
2. Building a service that removes toxins out of lakes and reservoirs
3. Building a service that treats Storm Run-off water that pollutes the lakes and reservoirs

These three services would open new markets for us both to explore together and to re-approach putting to market into SERVPRO's franchisees nationwide. I am excited that you are working with the Memphis Bioworks Organization on the development of these three pilots and we look forward to becoming a channel partnership of ECT Services & Solutions Inc.

Yours Truly,

Jeffrey Matlock

Director of Operations

Like it never even happened.®
Independently Owned and Operated

970-493-6335
Fax: 970-221-4896

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Leading the field – Examples California 2015



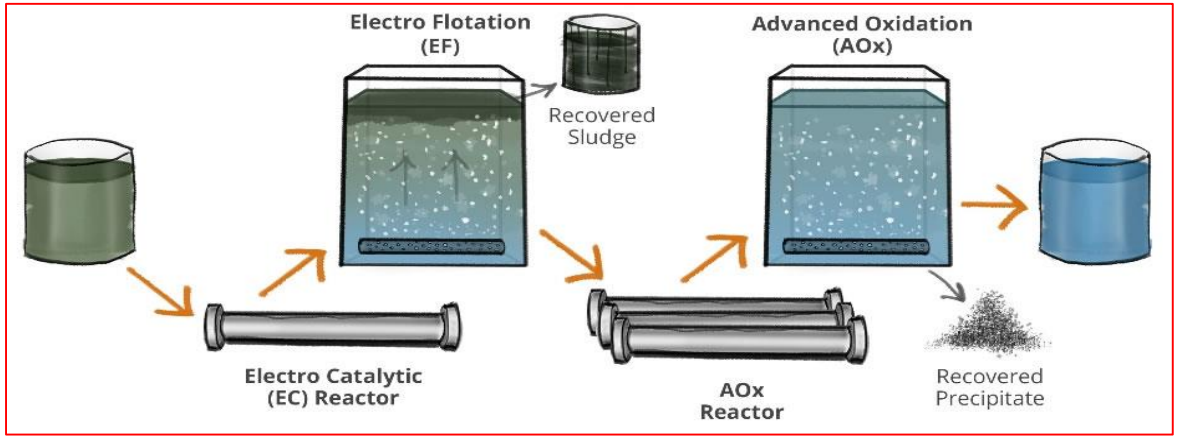






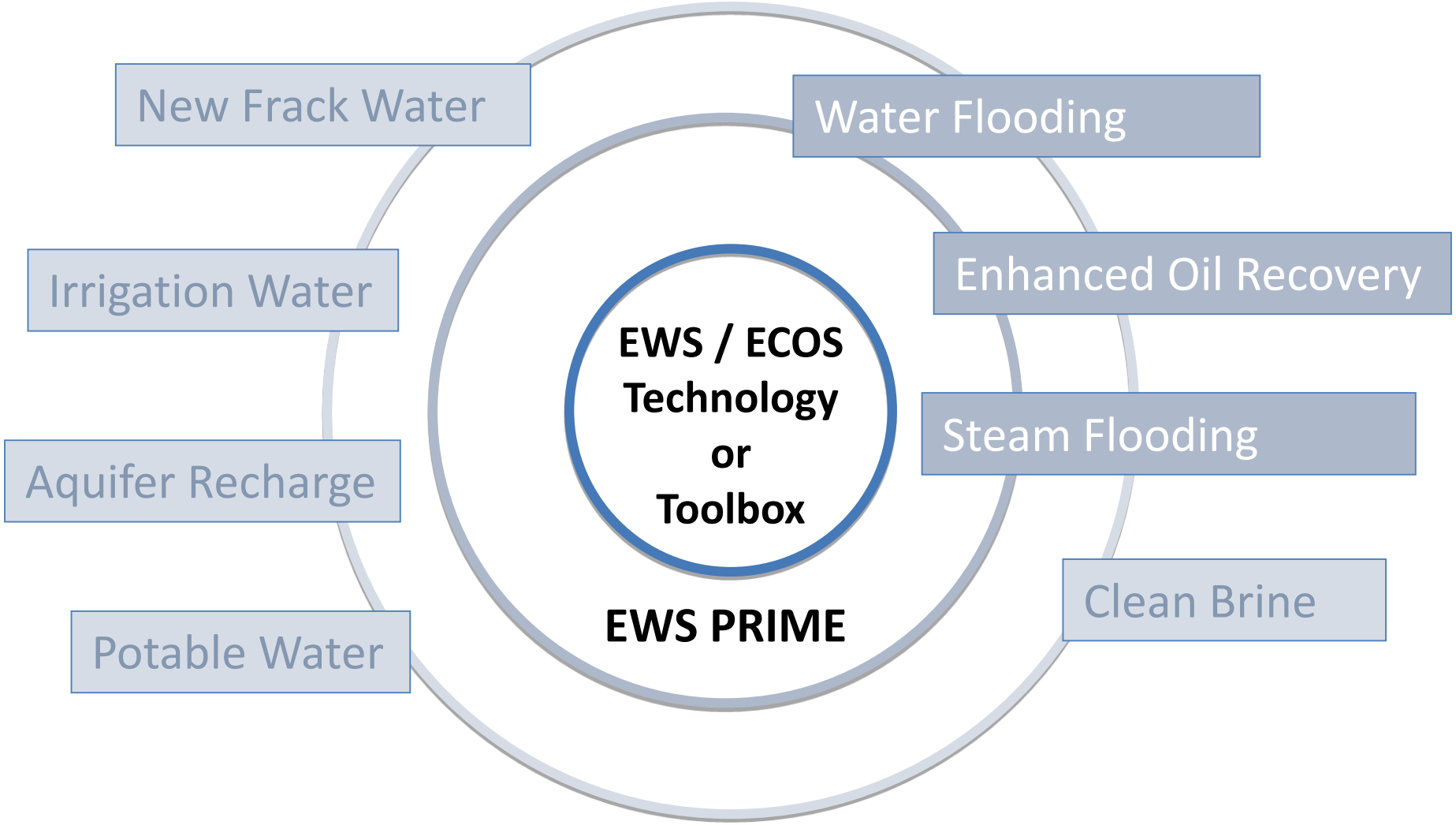
A Technology train & A Toolbox

- Electro Water Separation ™ **(EWS)** & Electro Coagulation System ™ **(ECOS)**
  - An integrated three stage electrochemical system
  - Removes essentially all TPH, TSS, and bacteria
  - EWS & ECOS is a patented technology
  - Advanced pretreatment for polishing technologies (UF, RO, etc.)
  - In-house standard design integrated with downstream polishing capability
- **(EWS) & (ECOS)** Toolbox
  - Three modules used as stand-alone retrofits and/or upgrades to existing water treatment facilities:
    - Electro-Coagulation module
    - Electro-Flotation module
    - Electro-Oxidation module



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Two Common Technologies, Uniting Together for Many Solutions

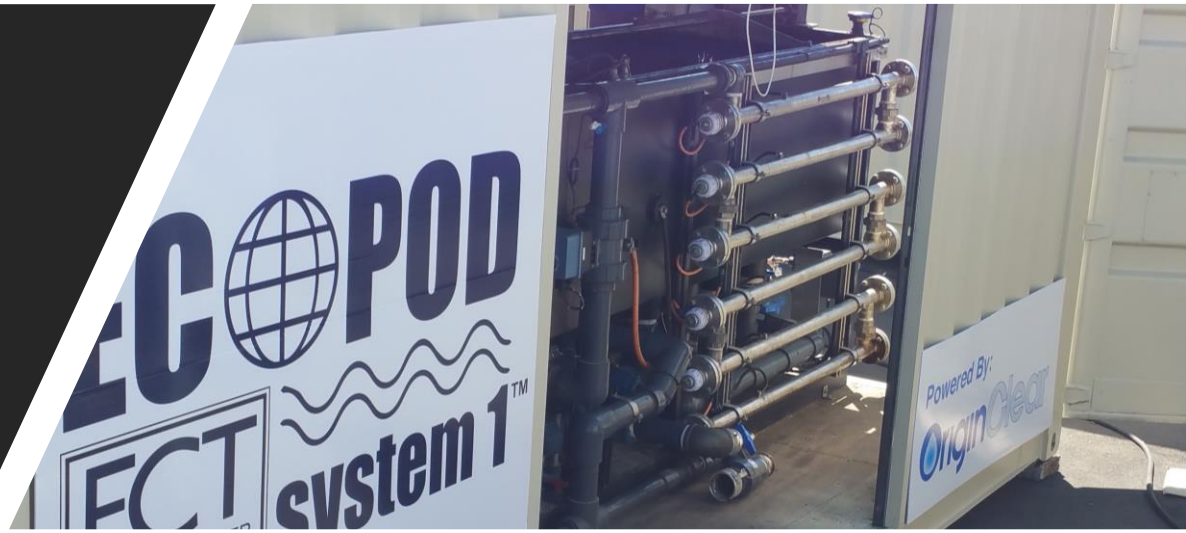


Complete systems featuring EWS / ECOS

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ECOPOD System 1.0 / EWS System 2000 With Electro-Coagulation Reactors on Right

- Integration in the Process Flow Diagram
  - Post upfront oil-water separator
  - Integrated single equipment
- The Essentials
  - Continuous & very low energy
  - Mobile or centralized facility
- Function
  - Targets dispersed 1 to 25 micron size oil droplets and suspended solids
  - Coalesces to 25 micron plus
  - Disinfects bacteria
  - Oxidizes and co-precipitates specific dissolved ions

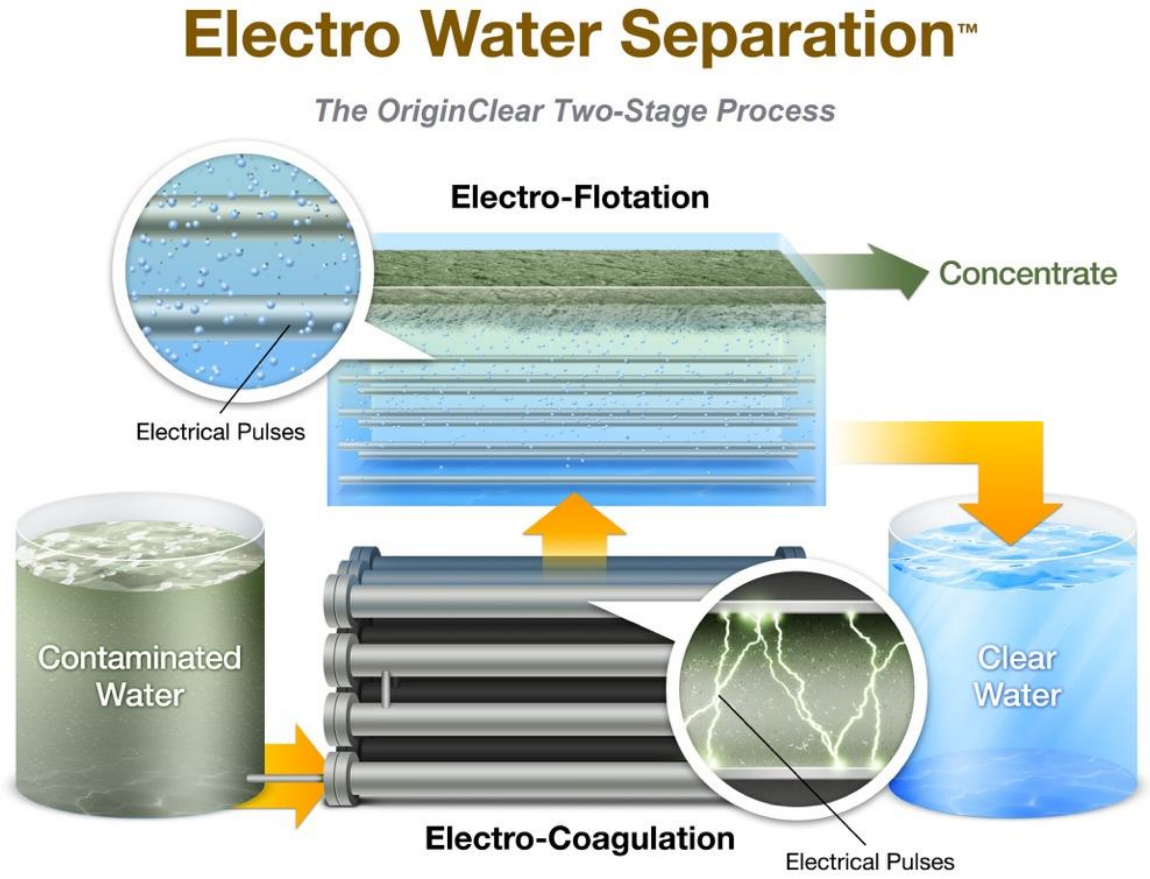


ECOPOD™ system 1.0

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ECOPOD Core Technologies

- Proprietary electro-coagulation
  - Breaks the oil-water emulsion
  - Neutralizes charge on droplets & particles
  - Coalesces 1 to 25 micron droplets & particles
  - Coalesces to 25+ micron for gravity separation
- Proprietary electro-oxidation
  - Creates oxidizing agents
  - Disinfects bacteria
  - Oxidizes heavy metals
  - Breaks up dissolved organics
- Proprietary electro-flotation
  - Creates cloud of micron-sized gas bubbles
  - Lifts oil & solids into a surface mat



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Differentiation - EC



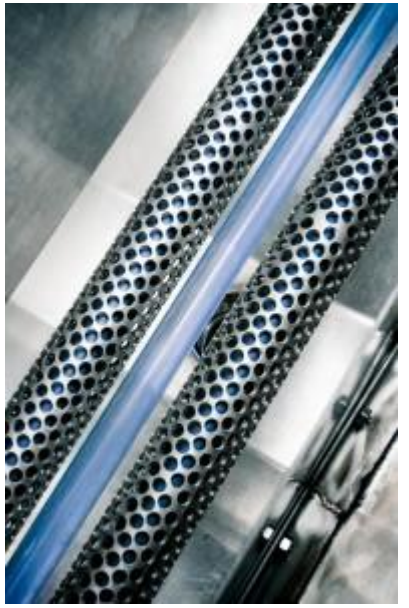
- Proprietary Electro-Coagulation
  - Unique electrode configuration for minimum energy consumption and maintenance
  - Unique choice of donating and non-donating anode & cathode materials
  - High mass transfer & pressurized reactor to keep gas in solution
  - Pressure released in flotation chamber for immediate dispersion of gas
  - In-line flocculation of oil & suspended solids



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Differentiation - EF

- Proprietary Electro-Flotation
  - 100% of water exposed to micron gas bubbles
  - Unique non-sacrificial anode/ cathode configuration for low energy consumption
  - Multi layered gas generation modules for additional chamber design flexibility
  - Four-chambered flotation chamber
  - Adaptable to existing flotation chamber designs
  - Compatible with settling / flotation complex designs





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Differentiation – EO, SCADA



- Proprietary Electro-Oxidation
  - Generation of oxidizing agents for bacteria disinfection
  - Low energy consumption
  - Chemical-free process
- Proprietary SCADA process control
  - Touch screen control
  - PLC algorithms for real time control and off site monitoring and control



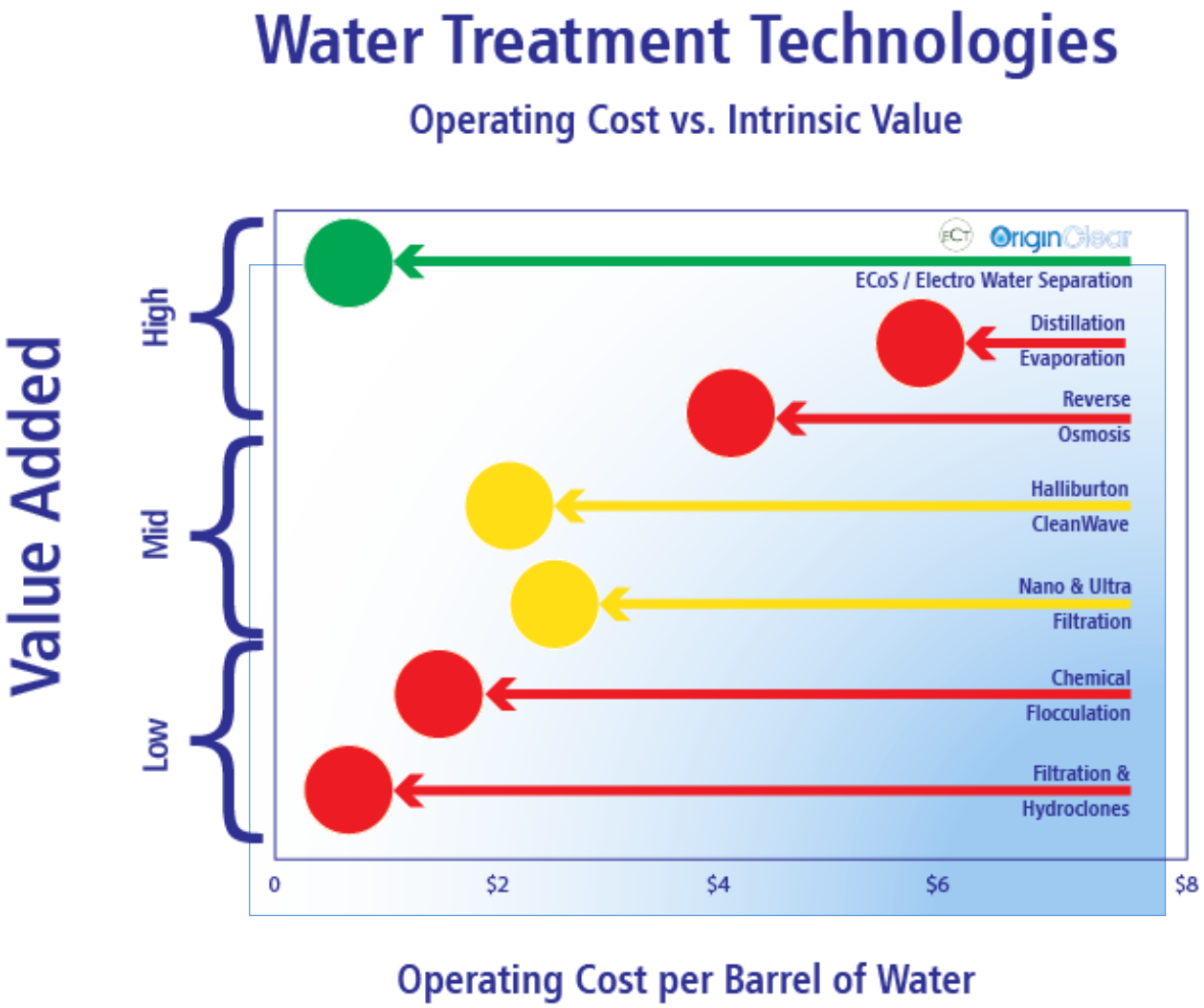
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A Comparison of Oil / Water Separation Methods

	ELECTRO COAGULATION	AIR STRIPPING	DISSOLVED AIR FLOTATION	UV OZONE	SETTLING	MEMBRANE BIO REACTORS	ECoS EWS
Total Suspended Solids	✓		✓		✓	✓	✓
Total Ammonia Nitrogen		✓				✓	✓
Total Nitrogen						✓	✓
Phosphorus						✓	✓
Soluble Chemical Oxygen Demand						✓	✓
Non-soluble Chemical Oxygen Demand	✓		✓				✓
Biological Oxygen Demand	✓		✓	✓		✓	✓
Total Petroleum Hydrocarbons	✓	✓	✓		✓		✓
Heavy Metals	✓			✓			✓

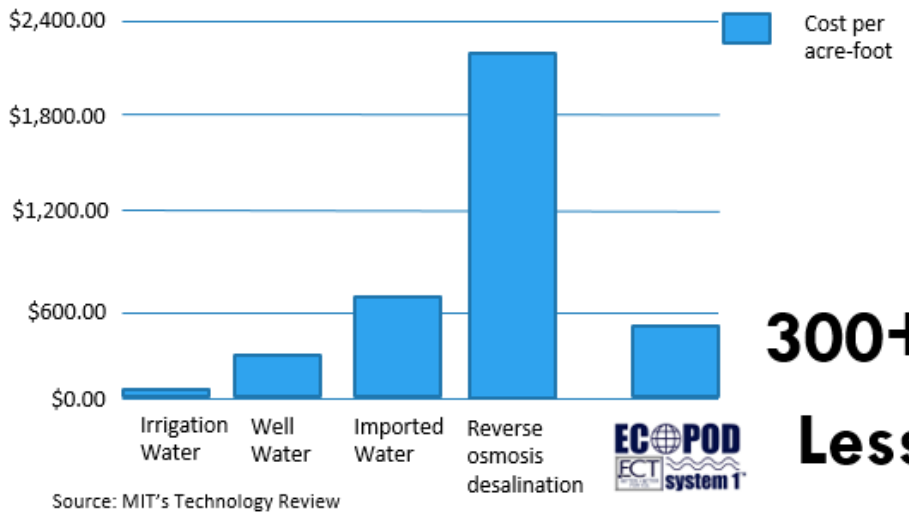
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Best Value-Added System



Cleans water without using Chemicals…

Water Industry Cost per Acre-Foot of Water Sources



Source: MIT's Technology Review

One acre-foot = 325,851 gallons

300+% Less Cost

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Yes – I said “without using chemicals”
it is the “catalytic converter” of water

Donating Anodes



Last a couple weeks

VS



Last a couple years

Non- Donating Anodes

VALUE PROPOSTION

ECT is now launching a series of Water Restoration Demonstration PILOTS in California to address:

PILOT 1: 2016 / Valley Water Management Company Oil Field Waste Water used within Agriculture Industries in Kern County, California.

PILOT 2: 2017 / East Bay Park District in San-Francisco toxic (“Cyanobacteria”) infested reservoirs and lakes.

PILOT 3: 2017 / Golden Gate Bridge polluted Storm Run-off Water.



CSU Bakersfield

Waste Water Technology

VALLEY WATER MANAGEMENT COMPANY



UCDAVIS

Cyanobacteria Technology

East Bay Regional Park District



UCDAVIS

Storm Run-Off Technology



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VALUE PROPOSITION- CONTINUED



VWMC = 500,000 Barrels Per Day GOAL

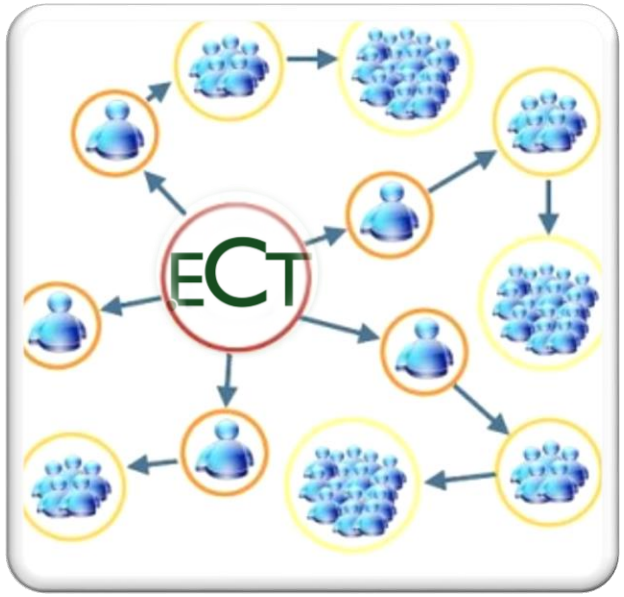


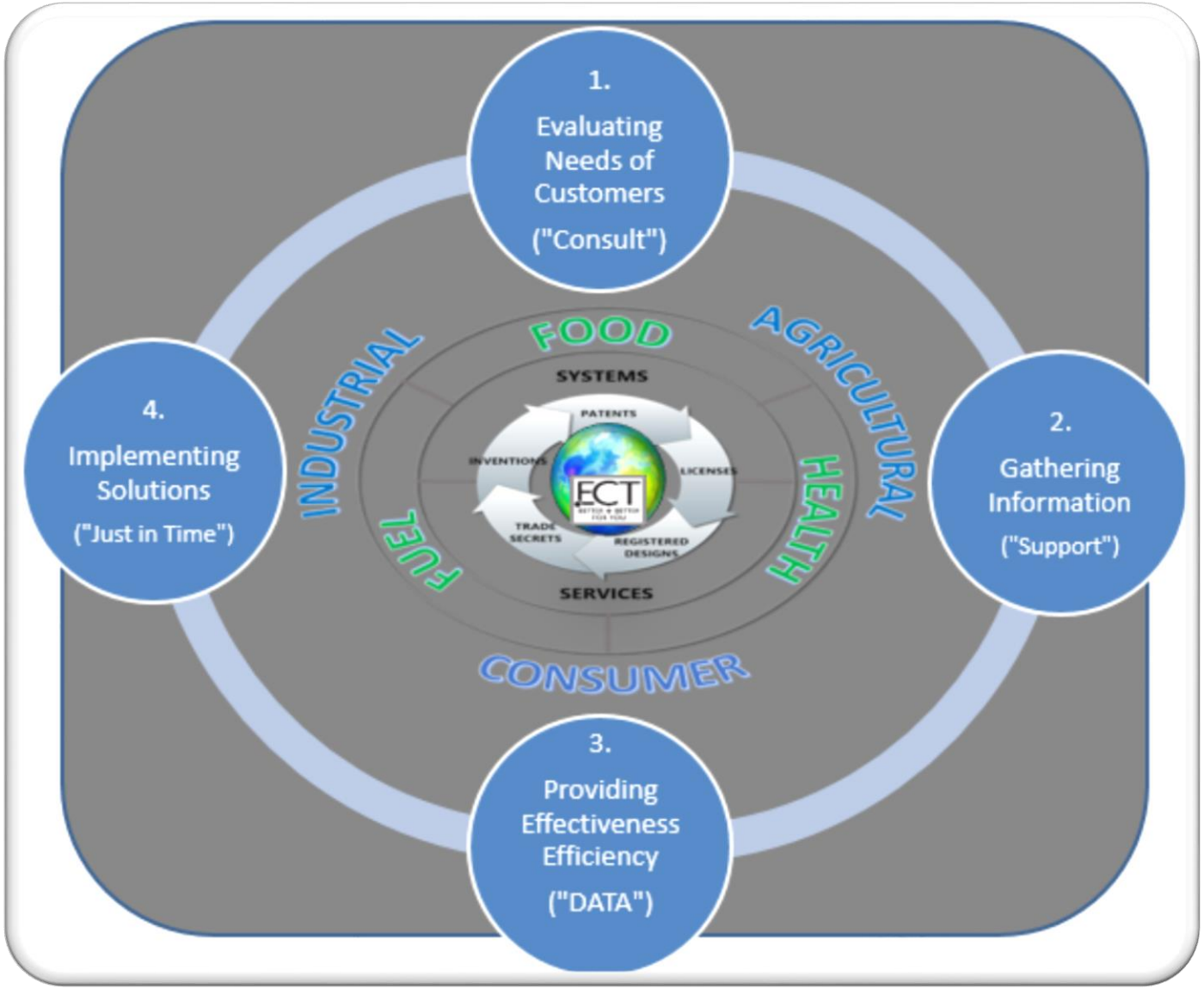
Chevron = 200,000,000 Barrels Per Year GOAL

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ECOPOD System 10™

BUSINESS MODEL





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Stackable IP / IT Developments:

Eco-Assets

The Potential for Natural Capital

As a natural consequence of utilizing ECT services the natural capital of an area will be enhanced. We will quantify those enhancements and market them as eco-assets. There is currently a market for such eco-assets as:

Carbon Credits – These credits can come from fuel offsets, capture of carbon in the environment and marketed in tons of CO2 equivalents. In certain markets these offsets are currently selling at over $20.00/ton.

Air Quality Offsets - If our efforts reduce the emission of a series of targeted chemicals, that eco-asset benefit can be quantified and marketed as offsets to those industries needing such offsets to meet governmental regulations.

Water Quality Offsets – If, through our efforts, the quality of runoff rain water quality is improved, we can quantify those improvements and again sell those assets and market them as we would air offsets.

PR Benefits – If you want to reach large audiences as inexpensively as possible, public relations is the way to go. A positive public perception will stimulate awareness of and demand for what ECT is doing, creates the perception that ECT is active "on the move", and studies show that has seven times the credibility of advertising.

The above is just an example of what ECT can and will do to improve the environment.



ECT

U.S. DEPARTMENT OF HOMELAND SECURITY

FEMA

Management Team Summary:



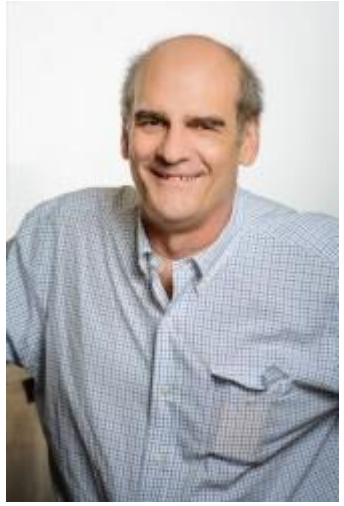
Talbott G. Howard., Founder, Chairman of the Board, President, CEO; Mr. Howard 38, has been exploring the Alternative Energy as investor, project leader, developer, and integrator. Howard is compelled to be part of its tradition through senior research engineers and scientist looking for a way to market. Howard's time "in the field" has given him much insight with a commitment to learning more about what technology really exist and could exist if the barriers for entry into the market were opened. Howard's work has been highlighted in the WallStreet Journal, Bloomberg and was invited to debut in the Nation Clean Energy Summit 8.0 in 2015. He took his BBA undergraduate degree from University of Mississippi in 2001.



Michael Green, Chief Technology Officer, Board Member; Mr. Green 66, experience includes holding positions of: Vice President of Business, Chief Technology Officer, (CTO), Senior Research Engineer, Senior Engineer for IP Development, Senior Engineer of Field Operations and has diversification experience in alternative & renewable energy, bio tech and automotive ICE fuels. Michael holds as lead inventor or team participant, 30 U.S. and International Patents. He holds a BS in Design Engineering, a MS in Mechanical Engineering and a Dsc. in Aquatic Microorganisms from Australia. He served in the U.S. Army, MOS, 16 C / Nuclear and holds Security Clearance.

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Management Team Summary: (Continued)



Nicholas Eckelberry, Senior Consultant; Mr. Eckelberry 60 is co-founder and chief research officer of OriginClear. He is responsible for inventing OriginClear's proprietary Electro Water Separation (EWS) technology, the high-speed, chemical free process to extract organic contaminants and valuable materials from large quantities of water. (All patents are assigned to OriginClear.) Nicholas first laid the foundation for OriginClear in 1988 when he first worked with Japan's Hideto Uematsu on the breakthrough OHR MX static mixer system; a system that received the mechanical patent US 6,279,611 (28 Aug 2000) for the mixing of fluids at a microscopic level. This technology has since been implemented at some 2,000 sites in the Japanese waste water industry, and led to the development of the company's first patent, "Algae growth system for oil production" (US#8,993,314), known as "Quantum Fracturing". It was the first patent filing by OriginClear, then called OriginOil. It focused on the challenge of feeding enough CO2 to algae cells to enable their production at industrial scale. It was subsequently referenced in 107 other industry patents, making it a key early innovation for the fledgling algae sector. (video: Quantum Fracturing demonstration). Nicholas also holds a second patent, "Bio-energy reactor" (US#8,986,531), which showed how hydrogen could be generated as a continuous by-product of algae production. It was called the Hydrogen Harvester. In November 2010, the company announced lab data that indicated energy production per square meter that was comparable to solar cells.

In all, Nicholas Eckelberry has authored or co-authored fourteen separate inventions in the field of algae production and waste water cleanup. Nicholas is also responsible for the development and launch of Nano-Cal in 2003, a product line based around a uniquely formulated and highly bio-available form of calcium. Recently, Biofuels Digest ranked him one of the Top 300 People in the Bioeconomy for 2013-2014.



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Management Team Summary: (Continued)



Cary Beane, Secretary and Treasurer; Mr. Beane 77 has extensive experience in Resources, Arbitration, Employee Relations, Negotiations, Industrial Relations, Project Management and Labor relations. As a Career Management Consultant, Beane's Subsidiary arbitration success rate was 90%. He was recipient of the Highest Individual Achievement Award as a result of concession bargaining savings in excess of $14 million. Implemented policy and procedures manual and employee handbook which included a positive disciplining program. Has held positions as President- Greater Memphis Employee Benefits Council, Vice President- Memphis Personnel Association, Vice President – MidSouth Compensation Association, Board Member, Memphis Business Group OnHealth. Beane has a BS in Mechanical Engineering and BS in Business Administration from Mississippi State University and an LLB from University of MS.



Douglas Davis, VP of Sales; Mr. Davis 52 has been nationally recognized for his sales achievements nine different times throughout seven different industries. He been instrumental in introducing new water conservation technologies to the marketplace. He has also played key roles in changing the UPC to accept the introduction of these new technologies.

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Management Team Summary: (Continued)



Adam Abraham, CCO; Adam heads our website and marketing developments and brings an affinity for the opportunities that partnership with the forces of Nature affords, as what is likely the first Chief Consciousness Officer for any organization. Creation of the office and title, signifies our commitment to both the environment and the people that we serve. A native of Chicago, Adam now resides in Henderson, Nevada

Board Advisors:

Randy Williams – Advisor to the Department of Interior & DOE for environmental offsets

Jeffrey Matlock – Advisor to the Disaster Relief Service Industries

Robert Brumley Jr – Advisor to Department of Defense

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ECOPOD System 2.0™

Polluted Water From:
Fracking, Mining, Highway Run-off, Nuclear, Refineries, Cities, Manmade & Natural Disasters.

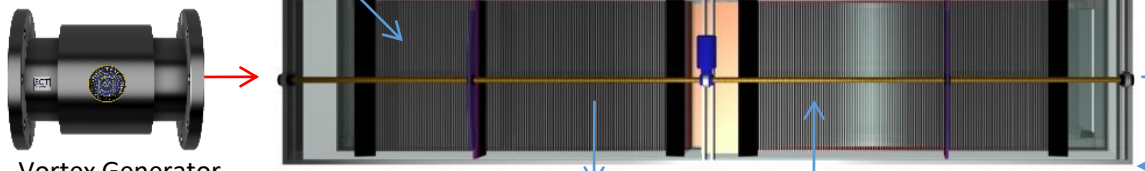


ECT CUSTOMER BASE





electrodes



Low Energy Polluted Water

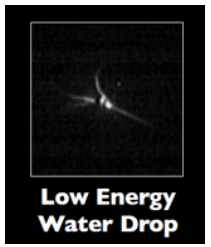
Vortex Generator

flow

Vortex Generator

High Energy Clean Water

electrodes



ecos

- Dissolution of metal ions from an electrode by applied potential (DC Voltage)
- Simultaneous evolution of H_2 gas bubbles for collection to power H2GN
- Destabilization of suspension coagulation
- H_2 bubbles promote flotation, but also sedimentation may occur
- Pair(s) of Ti, Fe, Pb or Al parallel plate electrodes separated by a few mm
- Waste extraction vacuum for disposal and storage
- Vortex Generator aligns the molecular structure of H20 to increase energy

• Renewable Energy

H2GEN





• Renewable Energy
• Emissions Reduction

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