

OriginOil™



Algae

The Most Promising Renewable Energy Feedstock



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Princeton, NJ, 20 January 2011

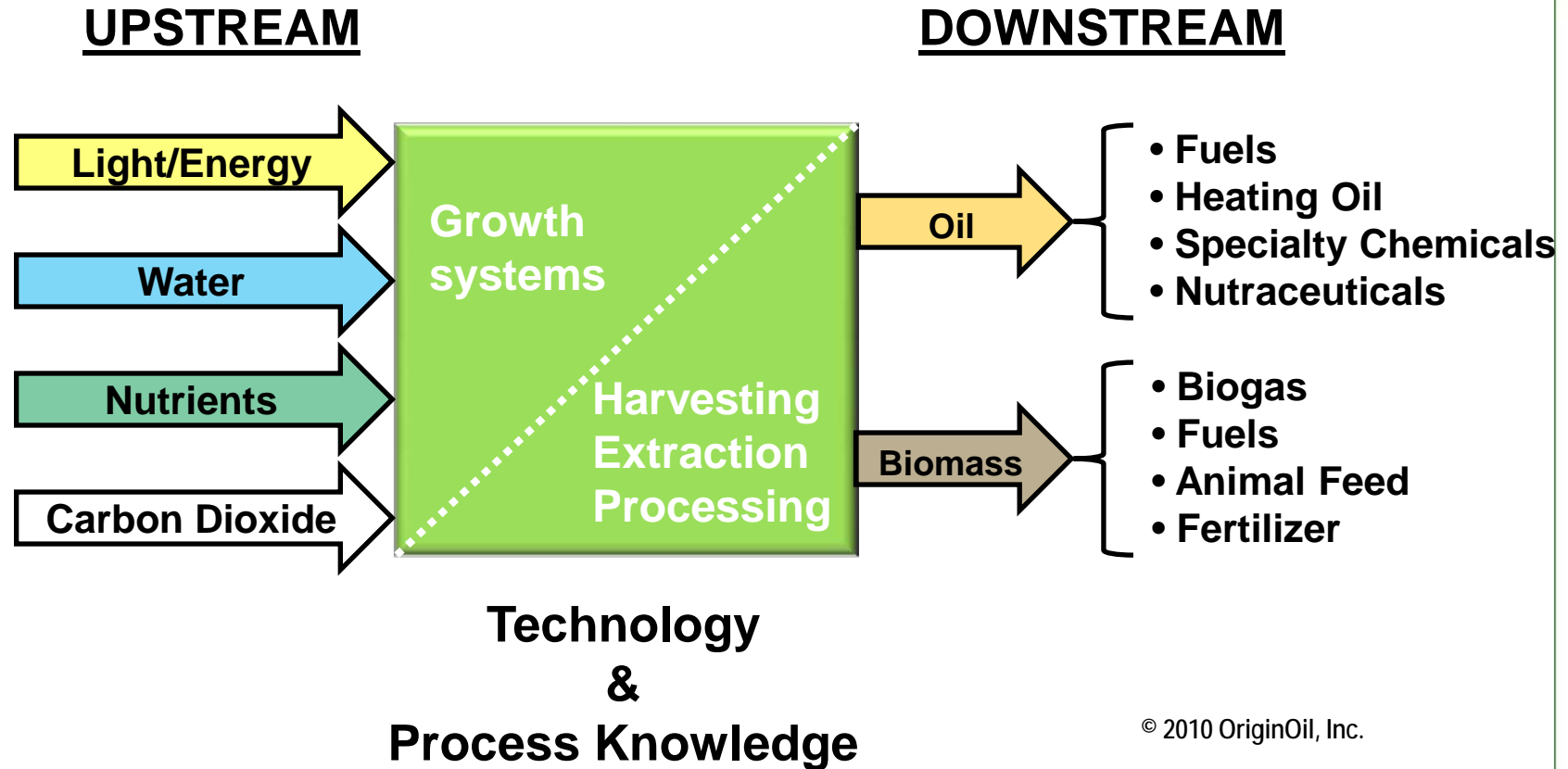
A BREAKTHROUGH TECHNOLOGY TO TRANSFORM ALGAE INTO OIL

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Algae Production Model



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A BREAKTHROUGH TECHNOLOGY TO TRANSFORM ALGAE INTO OIL

Recovering Oil: A Twofold Challenge



- Algae Grow Suspended in Large Volumes of Water
 - Neither float nor sink
 - Solid/liquid separation
 - Dewatering

- Cell Walls are Difficult to “Crack”
 - Tough exterior to protect internal lipids
 - Mechanical extraction
 - Chemical extraction

A BREAKTHROUGH TECHNOLOGY TO TRANSFORM ALGAE INTO OIL

Conventional Approach

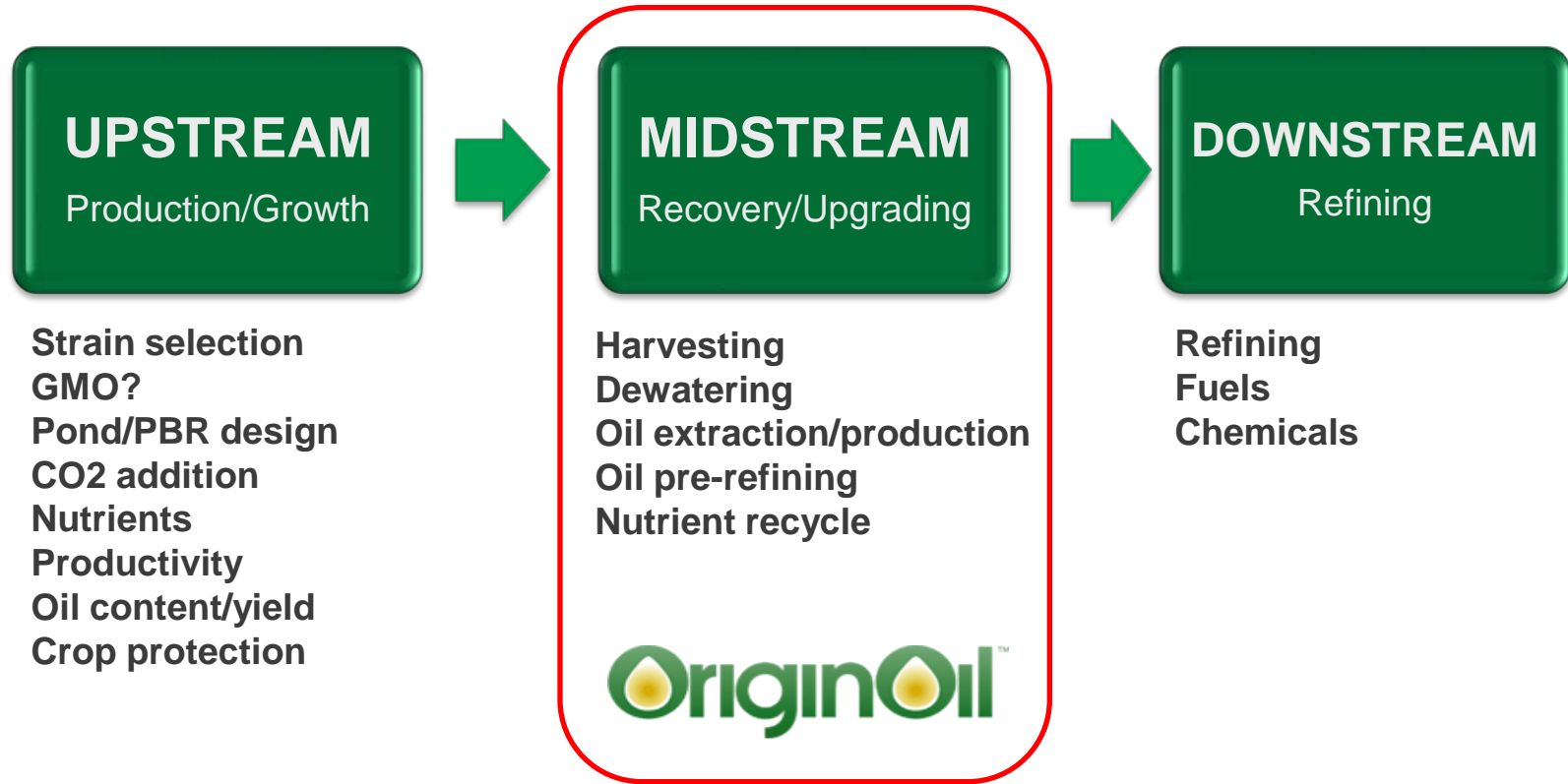
- Current State of the Art



Conventional Systems Feature a Combination of Technologies

Algae to Liquid Transportation Fuels

- Essentially a 3-Stage Process:



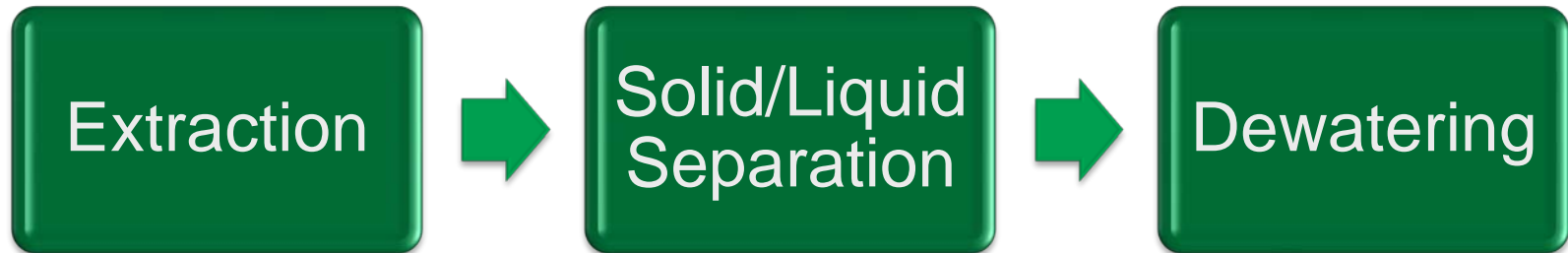
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The OriginOil Difference

Conventional Approach



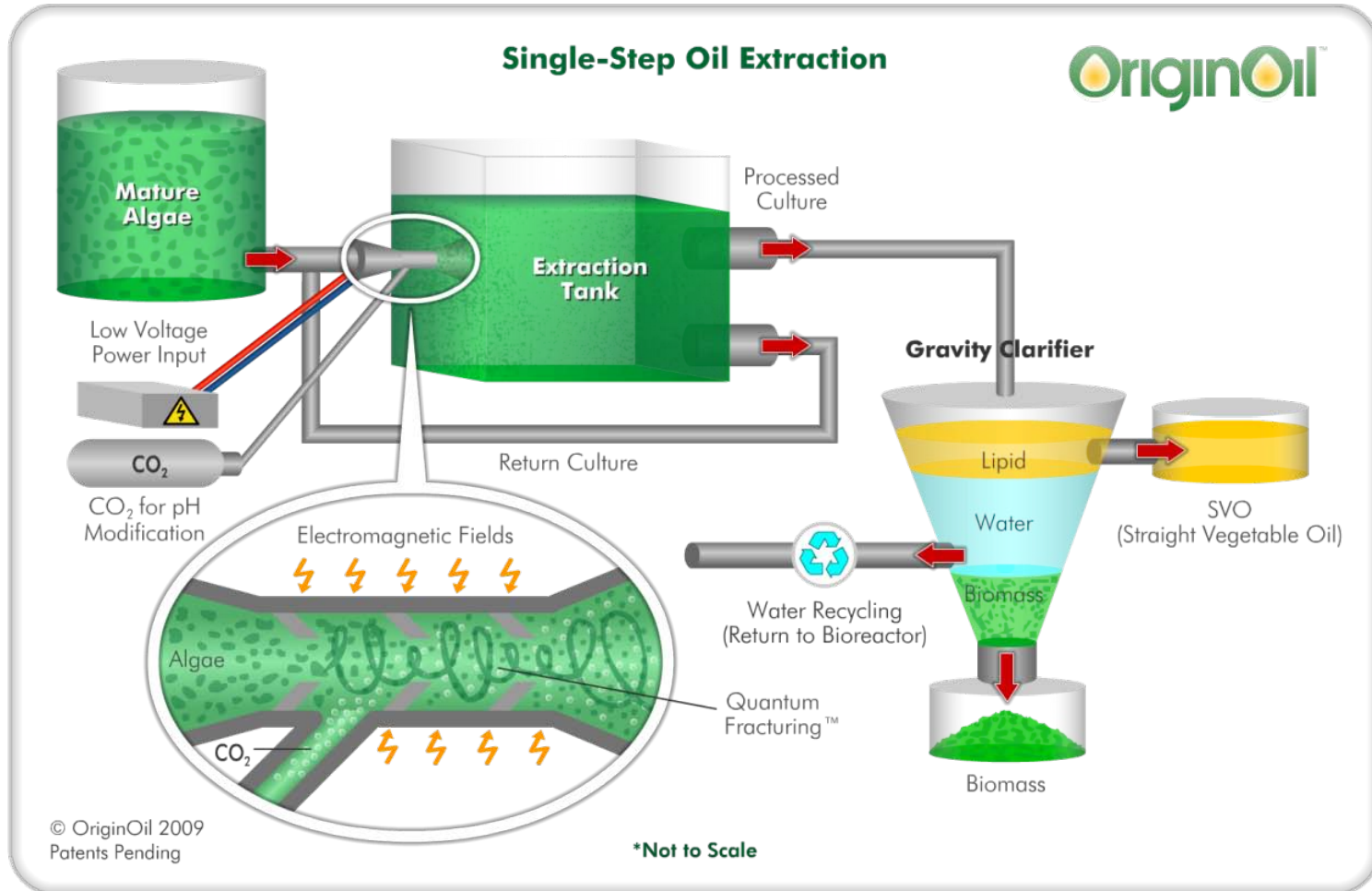
OriginOil Approach



Radical Shift vs. Incremental Gains

A BREAKTHROUGH TECHNOLOGY TO TRANSFORM ALGAE INTO OIL

OriginOil Single-Step Extraction™



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Patents Pending

*Not to Scale

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Status and Next Steps

- Early 2010: Pilot-scale lab system (3-5 gpm algae culture)
- Mid-2010: Mobile algae extraction system (MAX ONE) – on-site demos to interested algae companies
- Nov-2010: First commercial sale to MBD Energy, Australia
- 1ST Half 2011: Larger-scale deployments – ongoing discussions with strategic partners and OEMs
- January 19: OOIL technology will be embedded in industrial algae systems (pure technology focus)

THANK YOU!

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QUESTIONS?

INTEREST?

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