



It is no surprise that our early ancestors worshiped the sun. After all the centuries of scientific accomplishment, we are still at the same alter - looking to the sun to solve our energy problems. Our Beach Boys Index includes companies, privately held and publicly traded alike, that are sun worshippers. Their products and processes rely directly or indirectly on the photosynthetic processes of plants.

We have divided this highly populated index into sub-groups - eight altogether. There are oil drillers and coal miners on this list - after all fossil fuel is just very old, highly concentrated organic matter. There are also biomass developers attempting to capture the sun's energy trapped in more recently grown plants. Like every other alternative fuel list, we include conventional and cellulosic ethanol producers, but we divide them into separate groups. We also separate those companies that are technology developers and not fuel or energy producers on the assumption that the license-type business models of technology developers could lead to different valuation parameters than that accorded the fuel producers.

BEACH BOYS INDEX

ETHANOL GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEBSITE
Aemetis, Inc.	AMTX	US	Ethanol production	http://www.aemetis.com/
Altra Biofuels, Inc.	Private	US	Ethanol production	http://www.altrabiofuels.com/
Aventine Renewable Energy	Private	US	Ethanol products	http://www.aventinerei.com/
Calgren Renewable Fuels, LLC	Private	US	Ethanol production	http://www.calgren.com/
California Ethanol & Power	Private	US	Ethanol production, sugar cane	http://www.californiaethanolpower.com
Cardinal Ethanol, LLC	CRDE	US	Corn-based ethanol products	http://www.cardinalethanol.com/
Dakota Ethanol	Private	US	Ethanol, distillers grain	http://www.dakotaethanol.com/
East-Kansas Agri-Energy, Inc.	Private	US	Ethanol, distillers grain	http://www.ekaellc.com/
ESE Alcohol, Inc.	Private	US	Ethanol production	http://www.eselcohol.com/
Flint Hills Resources, Inc.	Private	US	Ethanol, biodiesel production	http://www.fhr.com/
Glacial Lakes Energy, LLC	Private	US	Ethanol, distillers grain	http://www.glaciallakesenergy.com/
Global Ethanol, Inc.	Private	US	Ethanol production	http://www.globalethanol.com/
Golden Grain Energy, Inc.	Members	US	Ethanol, distillers grain	http://www.goldengrainenergy.com/
Golden Triangle Energy, Ltd.	Private	US	Ethanol, distillers grain	http://www.goldentriangleenergy.com/
Green Plains Renewable Energy	GPRE	US	Ethanol, distillers grain	http://www.gpreinc.com/
Little Sioux Corn Processors	Private	US	Ethanol, distillers grain	http://www.littlesiouxcornprocessors.com
MGPI Ingredients, Inc.	MGPI	US	Food commodities, ethanol	http://www.mgpingredients.com/
MinnEnergy, LLC	Private	US	Ethanol, distillers grain	http://www.minnenergy.com/
Pacific Ethanol, Inc.	PEIX	US	Ethanol, distillers grain	http://www.pacificethanol.net/
Parallel Products, Inc.	Private	US	Ethanol	http://www.parallelproducts.com/
Patriot Renewable Fuels, LLC	Members	US	Ethanol	http://www.patriotrenewablefuels.com/
Pine Lake Corn Process, LLC	Private	US	Ethanol, distillers grain	http://www.pinelakecorn.com/
POET, LLC	Private	US	Ethanol, distillers grain	http://www.poet.com/
Quad County Corn Processors	Private	US	Ethanol, distillers grain	http://www.quad-county.com/
Raizen SA	Private	Brazil	Sugar feedstock, ethanol	http://www.raizen.com
The Andersons	ANDE	US	Ethanol production	http://www.andersonsinc.com/
US Enviropfuels	Private	US	Ethanol production	http://www.usenviropfuels.com/
Utica Energy, LLC	Private	US	Ethanol, distillers grain	http://www.uticaenergy.com/
Williams Energy Ventures	Private	US	Ethanol	http://www.williams.com/

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CELLULOSIC ETHANOL GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEB SITE
Abengoa Bioenergia, S.A.	ABG: MC	Brazil	Cellulosic ethanol production	http://abengoabioenergy.com/
Blue Fire Renewables, Inc.	BFRE	US	Cellulosic ethanol production, technology	http://bluefireethanol.com/
Ceres, Inc.	CERE	US	Energy crop grower	http://www.ceres.net/
DuPont Cellulosic Ethanol	Private	US	Cellulosic ethanol technologies, solutions	http://www.ddce.com/
Fulcrum BioEnergy	Private	US	Waste-to-fuel, ethanol production	http://fulcrum-bioenergy.com/
GreenShift Corporation	GERS	US	Conventional, cellulosic technologies	http://www.greenshift.com/
INEOS Bio	Private	US	Cellulosic ethanol technologies	http://www.ineosbio.com/
Iogen Corp.	Private	Canada	Cellulosic ethanol tech., production	http://www.iogen.ca/
Lignol Energy Corp.	LECF	US	Cellulosic ethanol technologies	http://www.lignol.ca/
Mascoma Corp.	Private	US	Cellulosic ethanol production	http://www.mascoma.com/
Syntec Biofuel, Inc.	SYBF	Canada	Cellulosic ethanol production	http://www.syntecbiofuel.com/
Viaspace, Inc.	VSPC	US	Cellulosic feed stock production	http://www.viaspace.com/
ZeaChem, Inc.	Private	US	Cellulosic ethanol technologies	http://www.zeachem.com/

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ALGAE GROUP

COMPANY	COUNTRY	PUBLIC/ PRIVATE	OPERATIONS	WEB SITE
Algae Bioenergy Solutions	US	Private	Algae-based fuel production	http://www.absgreenfuels.com/
AlgaeLink, N.V.	Netherlands	Private	Photobioreactor development	http://www.algaelink.com/
AlgaeTec AG	Australia	ALGXY	Algae-based biofuel production	http://www.algaetec.com.au/
AlgaFuel, SA	Portugal	Private	Bioengineering for industrial algae	http://www.a4f.pt/
Algenol Biofuel	US	Private	Ethanol from algae	http://www.algenolbiofuels.com/
Algix, LLC	US	Private	Bioplastic materials from algae	http://algixllc.com/
Alivigor, A.G.	Germany	Private	Renewable energy development	http://alvigor.ch/
Aurora Algae	US	Private	Algae biofuel production	http://www.aurorainc.com/
BARD Holding, Inc.	US	Private	Algae-based fuel production	http://bardholding.com/process.htm
Bio Architecture, Inc.	US	Private	Biofuel from seaweed	http://www.ba-lab.com/
Bio Fuel Systems	Spain	Private	Algae-based biofuel production	http://www.biopetroleo.com/english/
Bioalgene	US	Private	Algae growth development	http://www.bioalgene.com/bio.html
Bionavitas, Inc.	US	Private	Micro-algae production	http://www.bionavitas.com/
Carbon Capture Corp.	US	Private	Algae-based biofuel development	http://www.carbcc.com/
Cellana LLC	US	Private	Algae-based biofuel production	http://cellana.com/
Circle Biodiesel & Ethanol	US	Private	Algae biofuel equipment	http://www.circlebio.com/
Diversified Energy Corp.	US	Private	Scalable micro-algae bioreactors	http://www.diversified-energy.com/
Fishace Ecological Engineer-	Australia	Private	Aquaculture technologies	http://www.fishace.com.au/
Green Star Products	US	GSPI	Algae bioreactor systems	http://www.greenstarusa.com/
Greon, LLC	Bulgaria	Private	Low carbon energy development	http://www.greon.eu/
Heliae, Inc.	US	Private	Carbon mitigation	http://heliae.com/
Ingrepro, B.V.	Netherlands	Private	Algae-based biofuel	http://www.ingrepro.nl/
Kai BioEnergy Corp.	US	Private	Scalable micro-algae bioreactors	http://www.kai.bioenergy.com/
Kent Bioenergy Corp.	US	Private	Micro-algae technology solutions	http://www.kentbioenergy.com/
Lgem, B.V.	Netherlands	Private	Algae-based fuel systems	http://lgem.nl/
Live Fuels, Inc.	US	Private	Algae-based fuel production	http://www.livefuels.com/

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ALGAE GROUP, continued

COMPANY	COUNTRY	PUBLIC/ PRIVATE	OPERATIONS	WEB SITE
Muradel Pty, Ltd.	Australia	Private	Algal biofuel development	http://www.muradel.com.au/
Oil Fox, Inc.	Argentina	Private	Algae-based fuel production	http://www.oilfox.com.ar/
OriginOil, Inc.	US	OOIL	Algae bioreactor technology	http://www.originoil.com/
Parabel, Inc.	US	PALG	Biomass production platform	http://www.petroalgae.com/
PetroSun (Algae BioFuels)	US	PSUD	Algae-based food, fuel production	http://petrosuninc.com/index.html
Phycal, LLC	US	Private	Algae-based fuel production	http://www.phycal.com/
Pond Biofuels, Inc.	Canada	Private	Algal biomass production system	http://pondbiofuels.com/
Sapphire Energy, Inc.	US	Private	Algae-based biofuel production	http://www.sapphireenergy.com/
Scipio Biofuels, Inc.	US	Private	Algae-based biofuel production	http://www.scipiobiofuels.com/
Seambiotic Ltd.	Israel	Private	Carbon capture, sequestration	http://www.seambiotic.com/
Solazyme, Inc.	US	SZYM	Algae-based biofuel production	http://www.solazyme.com/
Solix BioSystems, Inc.	US	Private	Micro-algae technology solutions	http://www.solixbiofuels.com/
Susquehanna Biotech, LLC	US	Private	Algae-based food, fuel production	http://www.susquehannabiotech.com/
Synthetic Genomics, Inc.	US	Private	Micro-algae technology solutions	http://www.syntheticgenomics.com/
Synthetic Genomics, Inc.	US	Private	Micro-algae technology solutions	http://www.syntheticgenomics.com/

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BIODIESEL GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEB SITE
Biopetrol Industries, AG	B21.DE	Switzerland	Biodiesel from rape seed	http://www.biopetrol-ind.com/
BIOX USA Ltd.	BX: TSX	Canada	Oil-based biodiesel production	http://www.bioxcorp.com/
Darling International, Inc.	DAR	US	Waste oil-based biodiesel produc-	http://www.darlingii.com/
FutureFuel Corp.	FF	US	Biodiesel , performance chemicals	http://www.futurefuelcorporation.com/
GreenHunter Energy, Inc.	GRH	US	Biodiesel. chemical by-products	http://www.greenhunterenergy.com/
Gushan Environmental Energy	GU	China	Biodiesel, chemical by-products	http://www.chinagushan.com/en/
Methes Energies International	MEIL	US	Biodiesel production systems	http://www.methes.com/
Piedmont Biofuels Industrial	Private	US	Oil-based biofuel production	http://www.biofuels.coop/
Renewable Energy Group, Inc.	REGI	US	Oil-based biofuel production	http://www.regfuel.com/
Soy Energy LLC	Private	US	Oil-based biofuel production	http://www.soyenergyllc.com/
Yokayo Biofuels, LLC	Private	US	Biodiesel from waste oils	http://www.ybiofuels.org/welcome/

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BIOFUEL GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEB SITE
AbwicklungsG. Biogas	Private	Germany	Biofuel production systems	http://www.schmack-biogas.com/
Ag Environmental Products	Private	US	Oil-based biofuel production	http://www.soygold.com/
American Biodiesel, Inc.	Private	US	Algae-based biofuel production	http://www.communityfuels.com/
Arisdyne Systems, Inc.	Private	US	Biofuel systems solutions	http://www.arisdyn.com/
Biofuel Systems Group Ltd.	Private	UK	Biofuel processing systems	http://www.biofuelsystems.com/
Bion Environmental Tech.	BNET	US	Biofuel from agriculture waste	http://www.biontech.com/
BioPower Operations Corp.	BOPO	US	Biomass energy crops	http://www.biopoweroperations.com/
Blue Marble Energy	Private	US	Biofuel with anaerobic technology	http://bluemarbleenergy.net/
Blue Sun Diesel, LLC	Private	US	Biodiesel production	http://www.gobluesun.com/
Byogy Renewables	Private	US	Renewable jet fuel developer	http://www.byogy.com/
Catchlight Energy, LLC	Private	US	Wood waste feedstock supplier	http://www.catchlightenergy.com
Cool Planet Energy Systems	Private	US	Biomass to gasoline system	http://www.coolplanet.com/
Cosan Ltd.	CZZ	Brazil	Raw sugar production; ethanol	http://cosan.com.br/
CropEnergies, AG	CE2.DE	Germany	Bioethanol production	http://www.cropenergies.com/en/
Dynamic Fuels	Private	US	Synthetic fuel from animal fats	http://www.dynamicfuelsllc.com
DynaMotive Energy Systems	DYMTF	Canada	Biofuel with pyrolysis technologies	http://www.dynamotive.com/
Energy Developments Ltd.	ENE.AX	Australia	Renewable power generation	http://www.energydevelopments.com
Ensyn Corporation	Private	US	Rapid thermal processing	http://www.ensyn.com
First American Scientific	FASC	Canada	Feedstock, materials processing	http://www.fasc.net/
Green Technologies, LLC	Private	US	Oil-based biofuel production	http://www.greentechvt.com
Greenleaf Power LLC	Private	US	Biofuel production	http://www.greenleaf-power.com/
Grupo Sao Martinho	SMT03.SA	Brazil	Raw sugar, ethanol production	http://www.saomartinho.ind.br/
High Plains Bioenergy	Private	US	Oil-based biofuel production	http://www.highplainsbioenergy.com/
Imperial Western Products	Private	US	Oil-based biofuel production	http://imperialwesternproducts.com/
Incobrasa Industries, Ltd.	Private	US	Oil-based biofuel production	http://www.incobrasa.com/
Inland Empire Oilseeds, LLC	Private	US	Oil-based biofuel production	http://www.inlandempireoilseeds.com/
Innovation Fuels, Inc.	Private	US	Oil-based biofuel production	http://www.innovationfuels.com/
Inventure Chemical	Private	US	Reactor, catalyst technologies	http://inventurchem.com/company
Joule Unlimited	Private	US	Oil-based biofuel production	http://www.jouleunlimited.com/
Keystone BioFuels, Inc.	Private	US	Oil-based biofuel production	http://www.keystonebiofuels.com/

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BIOFUEL GROUP, continued

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEB SITE
Methanex, Inc.	MEOH	Canada	Methanol for biofuel processes	http://www.methanex.com/
Mid America Biofuels	Private	US	Oil-based biofuel production	http://www.mid-america-biofuels.com/
Mission New Energy	MNELF	US	Oleochemical production	http://missionnewenergy1-web.com
National BioFuels Pty Ltd.	Private	Australia	Oil-based biofuel production	http://www.natbiogroup.com/
Neos Resources, Plc	DOO.L	UK	Vegetable crude oil	http://www.neosplc.com/
Neste Oil Corp.	NEF.F	Finland	Biofuel production from palm oil	http://www.nesteoil.com
New Generation Biofuel	NGBF	US	Biofuel from plant oils	http://newgenerationbiofuels.com/
Peter Cremer North America	Private	US	Oleochemical production	http://www.petercremerna.com/
Proterro, Inc.	Private	US	Sugar feedstock solutions	http://www.proterro.com/about.html
Rentek, Inc.	RTK	US	Synthetic fuel technology	http://www.rentechinc.com/
SkyNRG	Private	Netherlands	Renewable jet fuel development	http://skynrg.com/
Solena Fuels Corporation	Private	US	Algae-based biofuel production	http://www.solenagroup.com/
Stepan Company	SCL	US	Oil-based biofuel production	http://www.stepan.com/
Sundrop Fuels, Inc.	Private	US	Renewable gasoline	http://www.sundropfuels.com/
Sweetwater Energy, Inc.	Private	US	Sugar production from plants	http://sweetwater.us/
Sun Products Corporation	Private	US	Oil-based biofuel production	http://www.sunproductscorp.com/
United Oil Company	Private	US	Oil-based biofuel production	http://www.unitedb100.com/
Western Duguque Biodiesel	Private	US	Oil-based biofuel production	http://www.wdbiodiesel.net/
Western Iowa Energy, LLC	Private	US	Oil-based biofuel production	http://www.westerniowaenergy.com/
World Energy Alternatives	Private	US	Oil-based biofuel production	http://www.worldenergy.net/
Zenergy International, Inc.	ZENG	US	Biofuel solutions, production	http://www.woodward.com/

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WASTE-TO-ENERGY GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEBSITE
Agilyx Corporation	Private	US	Waste to fuel technologies	http://www.agilyx.com/
Alphabet Energy, Inc.	Private	US	Waste heat recovery, conversion	http://www.alphabetenergy.com/
American BioMass & Trading	Private	YS	Biomass energy solutions	http://americanbiomasstrading.com/
Anaergia, Inc.	Private	Canada	Anerobic digestion technology	http://anaergia.com/
Beta Renewables S.p.A.	Private	Italy	Biofuel, biochemical producer	http://www.betarenewables.com/
Blue Sphere Energy, Inc.	BLSF	Israel	Waste-to-energy operator	http://www.bluespherecorporate.com/
CleanTech Biofuels, Inc.	CLTH	US	Energy solutions from municipal waste	http://www.cleantechbiofuels.net/#
Covanta Holding Corporation	CVA	US	Waste disposal, power generation,	http://www.covantaenergy.com/
Eco Ventures Group, Inc.	EVGI	US	Metals recycling, biofuel from used	http://www.ecoventuresgroup.com/
Enerkem	Private	Canada	Biofuel and biochemicals from waste	http://www.enerkem.com
Fiberight, LLC.	Private	US	Renewable biofuel production	http://www.covantaenergy.com/
ForceField Energy, Inc.	FNRG	US	Waste heat recycling	http://www.forcefieldenergy.com/
KiOR, Inc.	KIOR	U.S.	Cellulosic biofuel development	http://www.kior.com/
LanzaTech NZ Ltd.	Private	New Zealand	Gas fermentation technology	http://www.lanzatech.com
Licella Pty Ltd	Private	Australia	Biofuel from wood waste	http://www.licella.com.au/
Terrabon, Inc.	Private	U.S.	Waste-to-energy development	http://www.terrabon.com/index.html

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ALTERNATIVE OIL AND GAS, HYDROGEN* GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEBSITE
Accelergy Corporation	Private	US	Low carbon synthetic transportation	http://www.accelergy.com/
AuraSource, Inc.	ARAO	China	Clean coal slurry fuel, oil shale	http://www.aurasourceinc.com/
Far East Energy Corp.	FEEC	China	Coalbed methane exploration	http://www.fareastenergy.com/
GreatPoint Energy	Private	US	Hydromethanation, natural gas	http://www.greatpointenergy.com/
Headwaters, Inc.	HW	US	Waste coal reclamation	http://www.headwaters.com/
Imperial Oil Ltd.	IMO	Canada	Synthetic oil	http://www.imperialoil.ca/
L' Air Liquide	AIQUF	France	Atmospheric gases, hydrogen	http://www.airliquide.com/
Linde A.G.	LNAGF	Germany	Atmospheric gases, hydrogen	http://www.linde.com/
MagneGas Corporation	MNGA	US	Hydrogen from natural gas	http://www.magnegas.com/
McPhy Energy S.A.	Private	Germany	Electrolysis, hydrogen production	http://www.mcphy.com/en/
Primus Green Energy	Private	US	Gasoline from natural gas	http://www.primusge.com/
Southwestern Energy Co.	SWN	US	Unconventional fuel operations	http://www.swn.com/
Syntroleum Corp.	SYNM	US	Synthetic hydrocarbons	http://www.syntroleum.com/
USA Synthetic Fuel Corp.	USFC	US	Gasification, synthetic gas	http://www.usasfc.com/
Velocys Plc	OCG.L	UK	Clean synthetic fuel production	http://www.velocys.com/

*Hydrogen producers in this list are using various steam reforming technologies to produce hydrogen from natural gas.

ALTERNATIVE CHEMICALS GROUP

COMPANY	PUBLIC/ PRIVATE	COUNTRY	OPERATIONS	WEBSITE
Agrivida	Private	US	Sugar from biomass production	http://agrivida.com
Aiether Chemicals, LLC	Private	US	Catalytic ethane cracker	http://www.aitherchemicals.com
American Biosystems, Inc.	Private	US	Industrial, ag enzymes	http://americanbiosystems.com/
Amyris, Inc.	AMRS	US	Industrial chemicals	http://www.amyrisbiotech.com/
Avantium	Private	Netherlands	Industrial chemicals, fuels	http://www.avantium.com/
BioAmber, Inc.	BIOA	Canada	Bio-succinic acid development	http://www.bioamber.com
Butamax, LLC	Private	US	Biobutanol production	http://www.butamax.com/
CalciTec Limited	CLKTF	Switzerland	Specialty chemical production	http://www.calcitech.com/
Cobalt Technologies, Inc.	Private	US	Bio-based chemical production	http://www.cobalttech.com
Codexis	CDXS	US	Biocatalysts for pharma, biofuel	http://www.codexis.com/
Dyadic International, Inc.	DYAI	US	Industrial enzymes	http://www.dyadic.com/
Elevance Renewable Science	Private	US	Biochemicals with plant oils	http://www.elevance.com/
Genencor (Div. of Danisco)	DCO: C	Denmark	Industrial enzymes	http://biosciences.dupont.com/
Genomatica, Inc.	Private	US	Renewable chemical solutions	http://www.genomatica.com
Gevo, Inc.	GEVO	US	Fermentation technologies	http://www.gevo.com/
GlyEco, Inc.	GLYE	US	Specialty chemicals recycling	http://www.glyeco.com/
Green Biologics Ltd.	Private	UK	Renewable n-butanol	http://www.greenbiologics.com
Honeywell-UOP	HON	US	Renewable specialty chemicals	http://www.uop.com
Imperium Renewables	Private	US	Plant oil-based biodiesel	http://imperiumrenewables.com/
INEOS Group Holdings	Private	Switzerland	Bioethanol technology	http://www.ineos.com
LS9, Inc.	LS9: SI	China	Industrial chemicals, fuels	http://www.ls9.com/
Metabolix, Inc.	MBLX	US	Bio- polymers and -chemicals	http://www.metabolix.com/
Novozymes, Inc.	NVZMY	Denmark	Industrial enzymes	http://www.novozymes.com/en
OPX Biotechnology, Inc.	Private	US	Bio-based chemicals	http://opxbiotechnologies.com/
Rivertop Renewables	Private	US	Biochemical development	http://www.rivertop.com/
Solutia, Inc. (Eastman)	EMN	US	Chemical, engineered materials	http://www.solutia.com/
Verdezyne, Inc.	Private	US	Industrial chemical development	http://verdezyne.com/
Verenium, Inc. (BASF)	Private	US	Industrial enzymes	http://www.verenium.com/
Virent, Inc.	Private	US	Industrial chemicals, fuels	http://www.virent.com/

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