

Advanced Biofuels & Chemicals Project

Release 2.0 (11/16/11)

Project	Production Capacity (millions of gallons per year)								Location			Project Details			
	2009	2010	2011	2012	2013	2014	2015	2016	City	State	Country	Fuel/Chem	Technology	Feedstock(s)	RFS2 Category (US)
Coskata - first commercial	0.05	0.05	0.05	0.05	55.05	55.05	55.05	55.05	Hoover	Alabama	USA	Ethanol	Gasification	Multi-feedstock	Cellulosic biofuel
AltAir - 2nd commercial	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00	Bakersfield	California	USA	Renewable jet	Hydrotreating	Camelina	
Amyris - pilot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Emeryville	California	USA	RDIF	Fermentation	Sugar	Advanced Biofuel
BlueFire Renewables pilot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Lancaster	California	USA	Ethanol	AH	MSW	Cellulosic biofuel
Cobalt - pilot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Sausalito	California	USA	Biobutanol	Fermentation	Corn	Cellulosic biofuel
EdeniQ - pilot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Visalia	California	USA	Ethanol	EH		Cellulosic biofuel
EdeniQ - demonstration (with Logos)	0.00	0.00	0.00	0.80	0.80	0.80	0.80	0.80	Visalia	California	USA	Ethanol	EH		Cellulosic biofuel
Fulcrum	0.01	0.01	0.01	0.01	10.51	10.51	10.51	10.51		California	USA	Ethanol	Gasification		Cellulosic biofuel
Kent BioEnergy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Mecca	California	USA	Renewable oils	Algal oil extraction	Algae	Advanced Biofuel
LS9 - pilot - California	0.01	0.10	0.10	0.10	0.10	0.10	0.10	0.10	San Francisco	California	USA	RDIF	CBP	Sugar	Advanced Biofuel
OriginOil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Los Angeles	California	USA			Algae	
REll	0.02	0.02	0.02	0.35	0.35	0.35	0.35	0.35	Sacramento	California	USA	RDIF	Gasification		Cellulosic biofuel
Rentech	0.15	0.15	0.15	0.15	8.15	8.15	259.00	259.00	Rialto	California	USA	RDIF	FT		Advanced Biofuel
Solazyme - small commercial	0.10	0.10	0.15	0.15	0.15	0.15	0.15	0.15	South San Fr	California	USA	Renewable oils	Hydroprocessing	Algae	Advanced Biofuel
Solena/SAS	0.00	0.00	0.00	0.00	0.00	0.00	16.00	16.00		California	USA	RDIF	FT	MSW	Cellulosic biofuel
Verdezyne	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	San Diego	California	USA	Adipic acid	Fermentation	Cellulose	
Clearfuels	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	Commerce City	Colorado	USA	Renewable diesel/	Steam reform/FT	Woodwaste/bagass	Advanced Biofuel
Solix	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Durango	Colorado	USA	Biodiesel	Algae transesterification	Algae	Advanced Biofuel
Sundrop Fuels	0.00	0.00	0.00	0.00	0.00	0.00	40.00	40.00		Colorado	USA				
Aurora Algae - pilot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Vero Beach	Florida	USA	Biodiesel	Algae transesterification	Algae	Biomass-based diesel
BP Biofuels / Vercipia - 1st commercial	0.00	0.00	0.00	0.00	36.00	36.00	36.00	36.00	Highlands Cty	Florida	USA	Ethanol	EH	Bagasse	
Buckeye Technologies/University of Florida	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	Perry	Florida	USA	Ethanol	EH		Cellulosic biofuel
Highlands EnviroFuels	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	Highlands Cour	Florida	USA	Ethanol	ENZ	Bagasse	Cellulosic Biofuels
IneosBIO	0.00	0.00	0.00	8.00	8.00	8.00	8.00	8.00	Vero Beach	Florida	USA	Ethanol	Gasification-Fermentation		Cellulosic biofuel
LS9 demonstration -Florida	0.00	0.00	0.00	10.00	10.00	10.00	10.00	10.00	Okeechobee	Florida	USA	RDIF	CBP	Sugar	Advanced Biofuel
PetroAlgae	0.12	0.12	0.12	0.12	140.12	210.12	210.12	210.12	Fellsmere	Florida	USA	RDIF	Coking	Lemna	Advanced Biofuel
BARD	0.00	0.00	0.00	0.00	10.00	10.00	10.00	10.00	Augusta	Georgia	USA	Biodiesel	Algae transesterification	Algae	Biomass-based diesel
KIOR - 3rd commercial	0.00	0.00	0.00	0.00	0.00	62.50	62.50	62.50		Georgia	USA	RDIF	Pyrolysis	Woodchips	Advanced biofuel
Range Fuels	0.00	4.00	1.00	0.00	0.00	0.00	0.00	0.00	Soperton	Georgia	USA	Methanol/then eth	Gasification	Wood waste	Cellulosic biofuel
Renmatix	0.00	0.01	0.01	0.01	0.01	0.01	26.00	26.00	Kennesaw	Georgia	USA	Cellulosic sugars	Hydrolysis	Wood waste	
Cellana	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	Kona	Hawaii	USA	Biodiesel	Algae transesterification	Algae	
Clearfuels	0.00	0.00	0.00	0.00	0.00	0.00	18.00	18.00		Hawaii	USA	Renewable diesel	Steam reform/FT	Bagasse/cane trash	Advanced Biofuel
Honeywell's UOP	0.00	0.00	0.00	0.01	0.01	0.06	0.06	0.06	Kaoplei	Hawaii	USA	RDIF	Pyrolysis	Multi-feedstock	Cellulosic biofuel
Phycal	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	Central Oahu	Hawaii	USA	Bio-oil	Algal oil extraction	Algae	
Phycal	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.14	Central Oahu	Hawaii	USA	Bio-oil	Algal oil extraction	Algae	
ADM	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	Decatur	Illinois	USA	Ethanol	EH	Stover	Cellulosic biofuel
Tetravtae	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01		Illinois	USA	Biobutanol		Corn	Advanced biofuel
BioProcess Algae	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	Shenandoah	Iowa	USA	Biodiesel	Algae transesterification	Algae	Advanced biofuel
Dupont Cellulosic Ethanol -1st commercial	0.00	0.00	0.00	0.00	0.00	27.50	27.50	27.50	Nevada	Iowa	USA	Ethanol	EH	Corn cob	Cellulosic biofuel
Fiberight	0.00	0.01	0.01	6.00	6.00	6.00	6.00	6.00	Blairstown	Iowa	USA	Ethanol	EH	MSW	Cellulosic biofuel
Metabolix	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	Clinton	Iowa	USA	Bioplastic	Fermentation	Corn	
POET - demonstration - South Dakota	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	Emmetsburg	Iowa	USA	Ethanol	EH	Corn stover, switch	Cellulosic biofuel
POET - 1st commercial - Iowa	0.00	0.00	0.00	25.00	25.00	25.00	25.00	25.00	Emmetsburg	Iowa	USA	Ethanol	EH	Corn stover, switch	Cellulosic biofuel
Abengoa - pilot	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Hugoton	Kansas	USA	Ethanol	EH	Corn stover	Cellulosic biofuel
Abengoa -first commercial	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	Hugoton	Kansas	USA	Ethanol	EH	Corn stover	Cellulosic biofuel
Aquatic Energy	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03		Louisiana	USA	Renewable oils	Algal oil extraction	Algae	Advanced Biofuel
BP Biofuels / Vercipia - pilot	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	Jennings	Louisiana	USA	Ethanol	AH	Bagasse	Cellulosic biofuel
Diamond Green	0.00	0.00	0.00	137.00	137.00	137.00	137.00	137.00	Norco	Louisiana	USA	Renewable diesel	Hydroprocessing	Animal residue	Advanced biofuel
Dynamic Fuels	0.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	Geismar	Louisiana	USA	Renewable diesel	FT	Animal wastes	Advanced Biofuel
Myriant - IBR	0.00	0.00	0.00	0.00	8.00	8.00	8.00	8.00	Lake Providenc	Louisiana	USA	Succinic acid	Fermentation		
Myriant - pilot	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Quincy	Massachut	USA				
American Process	0.00	0.00	0.00	0.47	0.47	0.47	0.47	0.47	Alpena	Michigan	USA	Biobutanol	EH		Advanced Biofuel
Coskata - pilot	0.05	0.05	0.05	0.05	55.05	55.05	55.05	55.05		Michigan	USA	Ethanol	Gasification	Multi-feedstock	Cellulosic biofuel
Mascoma - 1st commercial	0.00	0.00	0.00	0.00	20.00	40.00	40.00	40.00	Kinross	Michigan	USA	Ethanol	CBP	Hardwood	Cellulosic biofuel
BioAmber - pilot	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01		Minnesota	USA	Succinic acid/ BDC	Advanced fermentation		
Gevo - 1st commercial	0.00	0.00	0.00	37.00	37.00	37.00	37.00	37.00	Luverne	Minnesota	USA	Biobutanol	Fermentation		Advanced Biofuel
Segetis	0.01	0.01	0.40	0.40	0.40	0.40	0.40	0.40		Minnesota	USA	Chems	Fermentation		
BlueFire Renewables first commercial	0.00	0.00	0.00	0.00	19.00	19.00	19.00	19.00	Fulton	Mississippi	USA	Ethanol	AH	MSW	Cellulosic biofuel
Elevance Renewable Sciences	0.00	0.00	0.00	0.00	80.00	80.00	80.00	80.00	Natchez	Mississippi	USA	Chems	Fermentation	Ag waste	
Enkermec - 2nd commercial	0.00	0.00	0.00	0.00	10.00	10.00	10.00	10.00	Pontotoc	Mississippi	USA	Ethanol	Gasification		Cellulosic biofuel
KIOR - 1st commercial	0.00	0.00	0.00	62.50	62.50	62.50	62.50	62.50	Columbus	Mississippi	USA	RDIF	Pyrolysis	Woodchips	Advanced biofuel
KIOR - 2nd commercial	0.00	0.00	0.00	0.00	62.50	62.50	62.50	62.50		Mississippi	USA	RDIF	Pyrolysis	Woodchips	Advanced biofuel
Gevo - demo	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	St Joseph	Missouri	USA	Biobutanol	Fermentation		Advanced Biofuel
Aemetis	0.01	0.02	0.05	0.05	10.05	10.05	10.05	10.05	Butte	Montana	USA	Ethanol	EH		Cellulosic biofuel
Blue Marble Biomaterials	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	Missoula	Montana	USA			Algae	
Rivertop Renewables	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Missoula	Montana	USA				
NatureWorks - Nebraska	18.00	18.00	37.00	37.00	37.00	37.00	37.00	37.00	Blair	Nebraska	USA	Biopolymers	Fermentation	Corn	
Trenton Fuel Works	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	Trenton	New Jerse	USA	Ethanol	AH	Mixed cellulose	Cellulosic biofuel
Joule - 1st commercial	0.00	0.00	0.00	0.10	0.10	0.10	75.00	75.00	Lea County	New Mexic	USA	RDIF	Solar conversion	CO2	
Sapphire Energy	0.01	0.02	0.02	0.02	0.02	1.02	1.02	1.02	Columbus	New Mexic	USA	RDIF	Hydroprocessing	Algae	Advanced Biofuel
Mascoma - pilot/demo	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	Rome	New York	USA	Ethanol	CBP	Hardwood	
Chemtex	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00		North Carc	USA	Ethanol	EH	Mixed biomass	Cellulosic biofuel
HCL Clean Tech	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	Durham	North Carc	USA	Ethanol	Hydrochloric acid		Cellulosic biofuel
Maverick Biofuels	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01		North Carc	USA	Mixed alcohol fuels		MSW	Cellulosic biofuels
ThermoChem Recovery (TRI)	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Durham	North Carc	USA	Ethanol	BTL - syngas		Cellulosic biofuel
ZeaChem - pilot	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Boardman	Oregon	USA	Ethanol	Gasification/fermentation	Poplar/energy wood	Cellulosic biofuel
ZeaChem - demo	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	Boardman	Oregon	USA	Ethanol	Gasification/fermentation	Poplar/energy wood	Cellulosic biofuel
Helios	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	Curwensville	Pennsylvai	USA	Ethanol			
Primus Green Energy	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20		Pennsylvai	USA	Gasoline	Gasification	Mixed biomass	Cellulosic biofuel
Gevo - 2nd commercial	0.00	0.00	0.00	0.00	37.00	37.00	37.00	37.00	Redfield	South Daki	USA	Biobutanol	Fermentation		Advanced Biofuel
Abengoa -second commercial	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	TBD	TBD	USA	Ethanol	EH	Corn stover	Cellulosic biofuel
Gevo - 3rd commercial	0.00	0.00	0.00	0.00	0.00	75.00	75.00	75.00	TBD	TBD	USA	Biobutanol	Fermentation		Advanced Biofuel
Gevo - 4th commercial	0.00	0.00	0.00	0.00	0.00	75.00	75.00	75.00	TBD	TBD	USA	Biobutanol	Fermentation		Advanced Biofuel
Gevo - 5th commercial	0.00	0.00	0.00	0.00	0.00	75.00	75.00	75.00	TBD	TBD	USA	Biobutanol	Fermentation		Advanced Biofuel
Clearfuels	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	Collinswood	Tennessee	USA	Renewable diesel/	Steam reform/FT	Woodwaste	Advanced Biofuel
Dupont Cellulosic Ethanol - pilot	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	Vonore	Tennessee	USA	Ethanol	EH	Corn cob	Cellulosic biofuel
BP Biofuels / Vercipia - 2nd commercial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00		Texas	USA	Ethanol	EH	Miscanthus	Cellulosic biofuel
Joule - pilot	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Leander	Texas	USA	RDIF	Solar conversion	CO2	
Joule - demonstration	0.00	0.00													