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Present and future of the Bio Jet Fuel Cluster (México)



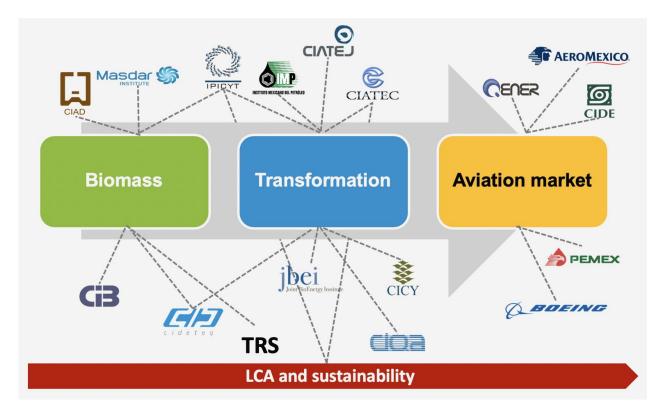


Agenda

- Introduction
- Objectives of the project
- Project status
- Overview of the present and future of the SAF industry in Mexico
- Conclusions





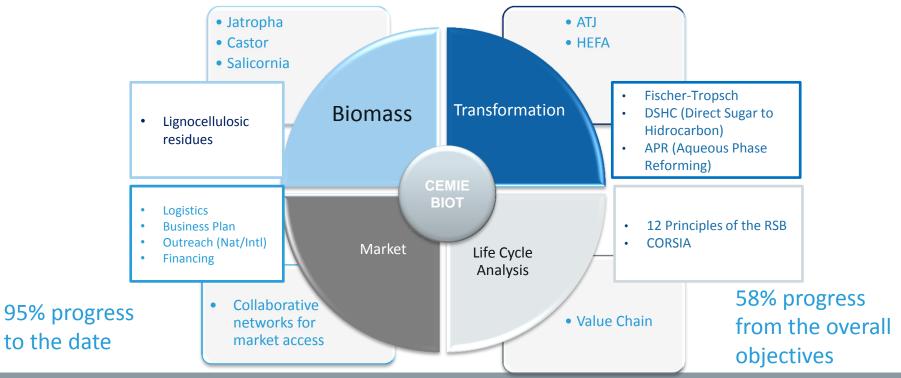


Energy Sustainability Fund 19 million USD 4 year project 2016-2020



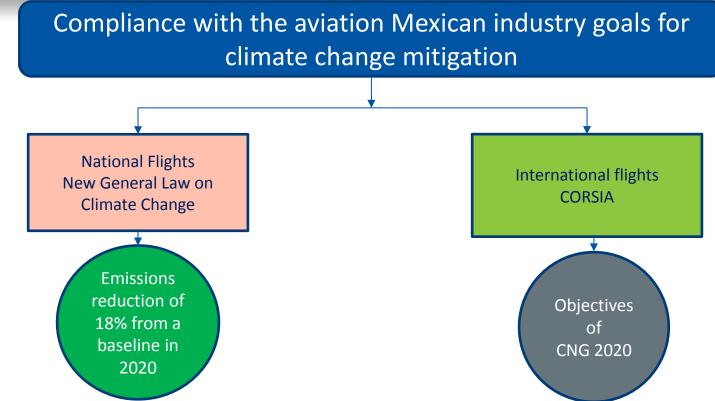


Cluster Research Lines





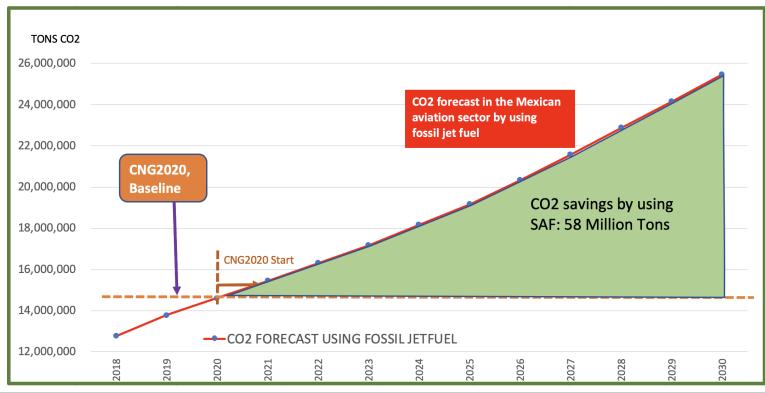








CNG 2020: Forecast of CO2 Emissions in México







2009	2010	2011		2016	2017	2018	2019	2020	2021	2022		2024		2026	2027	2028	2029	2030
	ASA: Mexic path to pro			Cianter Restores	fi	und: Biojet (ORMATON,	gy										
				4	ASA, BOE	ING, Aero	mexico, sig	ning a M	OU w/ the	biojet fu	el Cl	uster						
					A39-W	P/52, Me	xico partic	ipates a	is a volun	teer cou	ntry	in the p	ilot p	hase of	the MBM			
						The BJF	Cluster st	arts a v	work age	nda wit	h th	e CAN	AERC)				
							w General stablished				6 goa	l reduc	tion o	of CO2 e	mission w	ith a bas	seline to	
	г	Morelos a	and			DC .	Mexico's						0	RSIA				
		Hidalgo Si	24 - 14 - 14				starts		PILOT	PHASE		Р	HASE			PHASE	2	
		SAF Flight	path				monito	ring	(GNC	2020)		(vo	LUNTE	ER)	(1	MANDATO	RY)	
							-		and the second second second second		1. State 1.				ry in Mexic n industry (
							Cr	eation	of the M	exican /	Asoc	iation	of Sı	ıstainak	ole Aviati	on Fuel	s	
								BIO TRANSFO NEW REG	Projects: MASS DRMATION GULATIONS ROVAL	and deci OIL, COI	rease MME	the cos RCIAL A	t of v ND IN	egetal oi IDUSTRI	uctivity of I: CASTOR, AL RESIDU CARINATA,	SALICOF ES	RNIA, PA	1111111111111
											(ico, i				ies near th 0,000 Bbl			





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Overview of the present and future of SAF industry in Mexico

2016-2020 Bio JetFuel CLuster	2020-2022 Building the SAF industry in Mexico	2022-2030 Establishing the SAF industry
16: Mexico signs the ICAO MBM	2021: CORSIA Pilot Phase	
Feedstock Castor	New funds with the next goals:	Private funds to Build 4 bio refineries to supply 50,000 Bbl/d of SAF to accomplish
Jatropha	Developing the technology for	the CNG2020 needs in Mexico
Salicornia	optimizing and increasingproductivity of feedstock to get a low	MEX (2024), HEFA
Transformation demonstrative Plants	cost vegetal oil.	12,000 Bdl/d
ATJ Plan	Adopting the technology for	CUN (2026), ATJ
HEFA Plan	processing lignocellulosic biomass (agricultural residues) -> Ethanol	12,000 <u>Bbl</u> /d
Sustainable processes (RSB)	Production.	GLD (2028), ATJ 12,000 <u>Bb</u> l/d
At the end of 2020 ¿have we established the industry?	New laws and regulations to promote private investment to establish the	MTY(2030), HEFA
2020: Bio Jet Fuel	SAF industry in Mexico.	14,000 <u>Bbl</u> /d

Cluster ends.





