



RUCO Initiative

3rd EU-India Conference on Advanced Biofuels New Delhi, 3rd – 4th March 2020



RUCO initiative launched 10th August 2019 by MoP&NG and MoH&FW





Genesis of RUCO

- ▶ BDAI took up UCO for Biodiesel in 2012
- ▶ Joint campaign along with FSSAI since 2018
- Countrywide survey on UCO estimation
- ► Trust transparency and traceability RUCO web portal
- ► Trial supplies to IOCL and BPCL with CSIR-IIP certification



Veg Oil Consumption pattern

Description	Metric Tons	Percentage
Total Veg oil Consumed	2,22,00,000.00	100%
FBO	<u>59,94,000.00</u>	27%
Soap & Oleochem	73,26,000.00	33%
Household consumption	88,80,000.00	40%



Expression of Interest



Jointly by IOCL, HPCL and BPCL across the country



Survey Methodology

- Standard of living
- Total Population
- Food habits and consumption patterns
- Big Data Analysis
- Per Capita Consumption range 17.5 -20Kgs

Α	Urban Class A cities		20 Kgs	
	Soaps & Oleochemicals	33%	6.27	
	Household consumption	40%	7.60	
	FBO/QSR/Processed Foods	27%	5.13	7%



Supply side



Source of vegetable Oil(MT)				
Import	1,50,00,000.00	68%		
Domestic	72,00,000.00	32%		
Total	2,22,00,000.00			

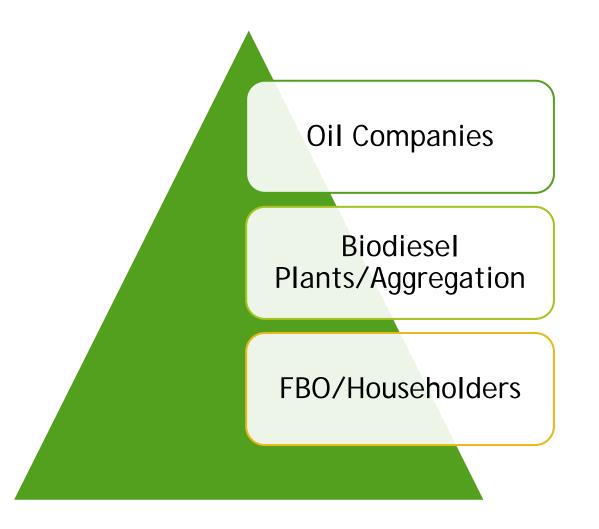


UCO generation by Type of FBO(1st year)

Description	Metric Tons	Percentage of total consumption	Discharge % by industry type	Discharge Qty
Large FBO's with Automation	5,99,400.00	10%	3%	17,982.00
Medium FBO Conventional	20,37960.00	34%	20%	4,07,592.00
QSR/Canteens/Cat ering	23,97,600.00	40%	30 %	7,19,280.00
Consumed as Ingredient	8,99,100.00	15%	0%	-
Fine Dining	59,940.00	1%	1%	599.40
				11,45,453.40

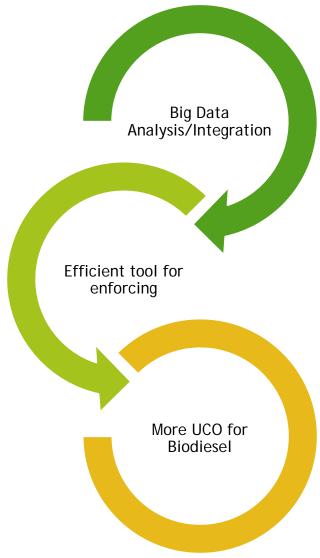


Eco system Created by Policy





Technology intervention



- Big Data analysis-integration will ensure UCO availability
 - Total Production/imports/sale of Veg oils
 - Purchase of Veg oil by FBOs
 - Standards consumption norms for each cuisine
 - Estimating the UCO creation in each district
 - Tracing sales of UCO to RUCO system
 - Efficient tool for enforcing agencies-FSSAI/FDA/Municipalities -more UCO into the RUCO ecosystem



Ecosystem





Thank You!

Sandeep Chaturvedi President Biodiesel Association of India

Members Working Group on Biofuels Ministry of Petroleum & Natural Gas Member U.P. State Biofuel Development Board Member BIS Committee on Petroleum and & Related Products Member Executive Committee- Rajashtan State Biofuels Authority