

AED Presentation (NetZero Bio-Refinery®) "Harvest Biomass-Worldwide"

An Environmental Stimulus for Growth World's Most Efficient Biomass Water Fuel- BWF®

Bio-Refinery

For

'Net-Zero' Fuels for Low-Carbon Economies Combating Climate Changes Mitigating Perpetual Poverty (Post 'Covid-19')

Feb 2021

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BWF[®]- Fuels of the Future Today Agenda:

- Background of BWF®
- What is BWF®
- Management team



Background of BWF®

Biomass Water Fuel(BWF®) & Low Rank Coal Water Fuel (LRCWF®) technology was developed by IAT/AED through a joint venture with the University of North Dakota School of Mines & Engineering Foundation at Grand Forks, ND,USA.

(Funding support also provided thru US DOE and EPRI)

BWF® involving advanced multi-technology operations to process Biomass/Low Rank Coals, is an innovative commercialization product by AED (Afro-Asian Energy Development Consortium, Inc;Founder Bhasker Patel), borne out of the 1993 oil crisis. AED was incorporated in August 1994 in USA.

AED is now positioned for commercializing BWF® as **NanoFuel**® for the global market.



What is BWF®(Biomass Water Fuel)?

- BWF® is a liquid Biomass-based/blendable Renewable Fuel. It is the end product much of the inherent moisture in Biomass is permanently removed involving **hydrothermal treatment. Some moisture is reused in formulating BWF®.
- This stable liquid fuel is a renewable non-hazardous, nontoxic low cost alternative to petroleum derived fuels, that can be used as substitute to Fuel Oil and bulk Coal thru appropriate technologies.
- BWF® combustion also offers environmental benefits, such as low emissions (NOx,SOx,ROx) and reduced green house gases by reducing methane generation.
- The CO₂ released during HT can be recovered economically and sold for enhanced oil recovery (site specific) and other economic activities.



Management Team

- Bhasker Patel, Chairman & CEO
 - BE Univ. of Gujarat, MS Univ. of Michigan
 - RCA, Eimco Envirotech, Watts Griffis & McOut, CERA, IAT, IAPS
- Dr Blazo Ljubicic, Ph.D, Director of Technology
 - BS, MS, PhD Univ. of Novi Sad, Yugoslavia
 - Koch Inds, Brown Fintube Company, Heat Transfer Research Inc, EERC
- Dr Warrack G. Willson, Ph.D, Director R&D-Commercialization
 - -- BS Univ. of Northern Colorado, PhD University of Wyoming
 - CWFS, UNDEERC, US DOE GFETC, Occidental Research, DuPont, NRII (Univ. WY)
- William Hauserman, Principal Consultant, LWF Engineering systems
 - BS, MS Univ. of California Berkeley
 - EERC, US Dept of Energy, UNIDO, CECON Consulting, process equipment manufacturers.
- Don Mathsen, Principal Counseller
 - BS,MS Univ of North Dakota
 - Ex-Director, UND School of Engineering and Mines Foundation

AED Task Force Team Members attached seperately

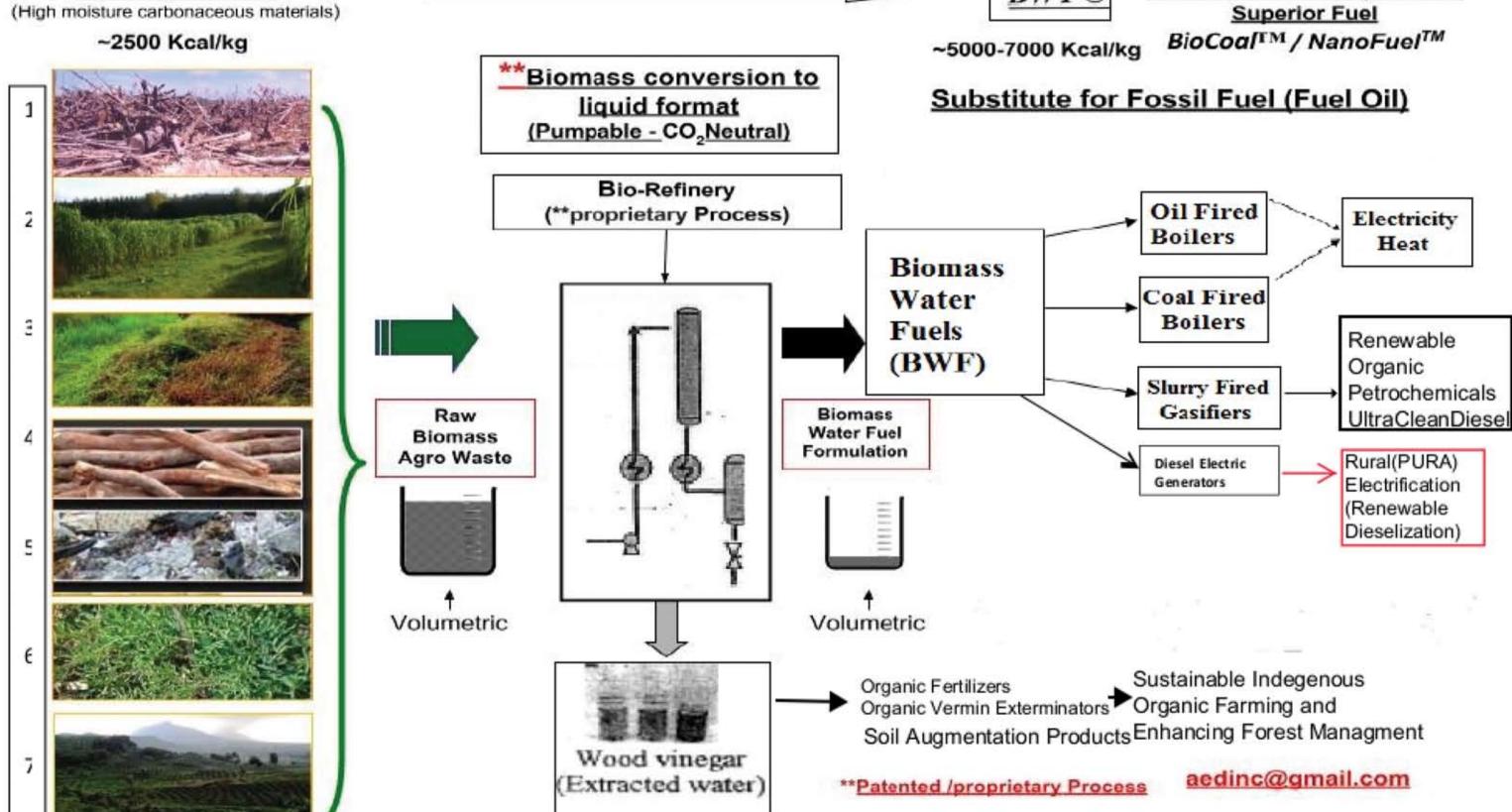
Biomass All types of Agro Waste & Agro-byproducts

BWF® (Biomass Water Fuel)



BWF®

A Renewable Biosequestered Superior Fuel





Promoting
United Nations Ideals Under
California Gujarat Sister States Relationship
(Ref:California Senate Concurrent Resolution No-4, Chapter-13)

Net-Zero Kohinoor®

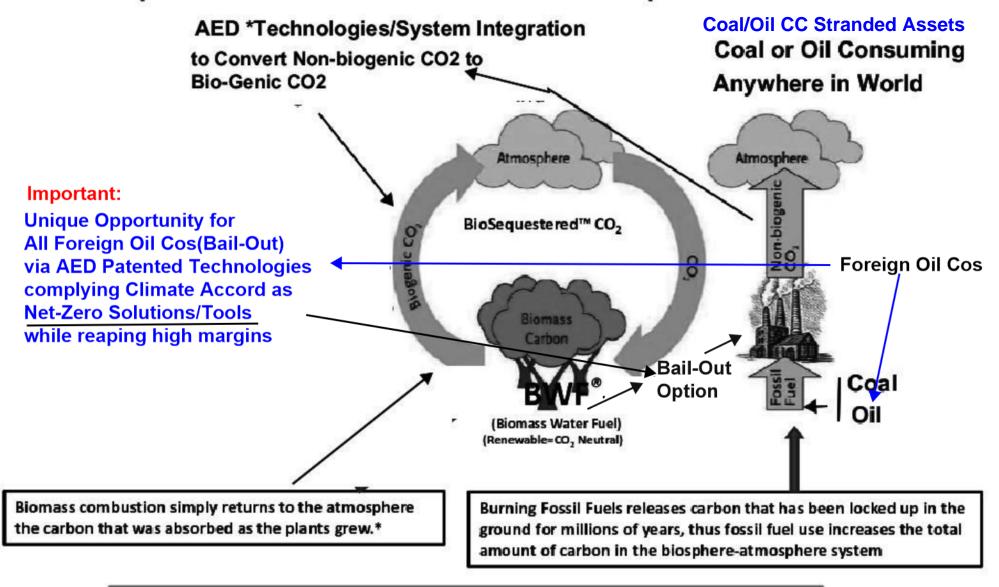
Net-Zero Miracle[®] Fuel Harvest Indigenous Biomass Product Biomass Water Fuel[®] (BWF)

- 1) Economical Biomass Feedstock (Agro-waste/Forest-waste) (One Billion tons/sub-continent- USDOE)
- 2) Economical Biomass Transportation (Across land, Sea)
- 3) CO₂ Neutral,~ Zero Carbon Footprint (cradle to grave) ~Net Zero
- 4) Pumpable, non-hazardous, non-toxic Compliant Fuel
- 5) Renewable Dieselization for Rural Electrification
- 6) Feedstock for Renewable Petrochemicals
- Renewable Organic Soil Augmentation® Co-Products with
 (a)organic fertilizers and (b) pesticides properties
 (c)Substituting Synthetic Fertilizers, Pesticides, Vermin exterminators
- 8) Reverse Forests Destruction (G-77 Nations)
- 9) Forests Fires & Soil Toxicity/Forest Wealth Management
- 10) Life-line support/Free insurance for crop-failures/calamities
- 11) Reduced GHG Emissions/ Climate Change Compliance[^]
- 12) Biting the Pollution Bullet, Perpetual Poverty Mitigation
- 13) Premium Clean Biosequestered® Bio-Coal/BioFuel
- 14) Platform for Rehabilitation of Major Oil Cos & e-Commerce
- Renewable *Low Cost Petroleum Fuel Oil Substitute at \$25 per BOE or \$1 per Gallon or \$0.22 per LDE (Litre Diesel Equivalent)

(*Order of Magnitude)

(Draft- May'21)

BioSequestration Miracle - Worldwide Proposed to be Renewable Petrochemicals Capital



The net greenhouse gas (GHG) outcome of using biomass for energy cannot be determined by comparing emissions at the point of combustion. Instead, the biogenic carbon flows and any fossil GHG emissions associated with the bioenergy system need to be compared with the GHG emissions associated with the energy system displaced, considering also biogenic carbon flows in the absence of the bioenergy system.

* Patented

