



# Urja Mandir University® Proposed Program (G77) : Annexure- A (Rev)

## Harvest Biomass Collaborative Worldwide® (HBCW)

### Harnessing the Miracles of Coal Molecule®

### Making Biomass - The King of All Renewables®

#### AED-US:

**A**

- Proprietary BWF/UMUTechnologies as Base platform (GDC Phase-I completed ) u/NDA
- Supply Technology assistance with experts, advisors
- Assist all R&D commercialization programs

#### Funding Institutes support options :

**B**

- Asian Development Bank//World Bank
- Bill & Melinda Gates Foundation & similar foundations
- EU Govts for Climate Changes/Carbon reductions programs
- UN with G20 nations Commitment of \$ 100 billion for Climate changes impacting G77 Developing nations (Halt "Forests Destruction"/Poverty Mitigation)
- Stimulus funds for 'Clean Tech' and 'Renewable R&D' ESG Bonds
- US AID and other Govt programs/Grants

#### Urja Mandir University® Innovations

**C**

#### Biomass R&D focused Programs:

Faculty members with graduate students' resources including network Extension Services and other Biomass-centric R&D Institutions -Worldwide u/Contract R&D  
Carbon Capture CO<sub>2</sub> Storage CCBank®  
Biomass- TESSLA® Foliage Miracle®

#### "Biomass Energy Transport Research Institute" (AED-SPV)

#### Options:

Ex-California (USA)-G20  
Ex-Singapore(Asia-Pacific)  
Ex-Gujarat (India)-G77

#### Harvest Biomass R&D Projects-Master Plan:

**D**

- Biomass Resource Assessment\*\*
- Biomass Conversion /System Integration Options\*\*
- Point Source Pollutants Assessment Vs Biomass /Crops yields\*\*
- Long Term Scientific R&D Projects
- GDC-BWF Demo/ Lab Infrastructure With supporting ongoing R&D Centre
- Design & Production Engineering for bulk economical conversion plants (California Cows)
- World Class 2P ( Poverty Pollution) Monitoring Centre/s\*\*

#### G77-UMIPURA® /UMIRurban® (Ref-India)

BWF Plants will provide resources:To support urban amenities(within PURA)

**F**

#### Deliverables (Within 5 years).

- ✓Quantum jump to Zero Poverty line population with sustainable quality of life & rural empowerment/up-lift
- ✓Halts & Reverses Rural Poor Migration to Urban Centers
- ✓Halts & Reverses Agro-waste Destruction; CO<sub>2</sub> Neutral
- ✓Addresses Climate Change issues, Biting Pollution-Bullet
- ✓Sustainable Renewable Clean Energy, Energy Security
- ✓Lowcost Petroleum fuel substitute for Global markets
- ✓Accelerated GDP growth/Exports

Principle Focus: "Dr Abdul Kalam Bhasker Patel Doctrine)®  
(Keeping Carbon Local® Bio-Sequestration®)  
(Site-Specific-Order of Magnitude)

\*Ongoing Options u/study

#### Harvest Biomass Collaborative Worldwide® (G77-Ex Gujarat,India)

**E**

- \* Major Universities- Worldwide
- \* AMUL, L&T, Tata Inst, Nestle, Major IT cos
- Industrial Boilers
- Nandesari Industries Association
- Drashta Consultants
- Concept Bio-Tech
- Contract Support Group
  - 7 members: US based (G20)
  - 25 members: Asia-based(G77)



# Urja Mandir University® Faculties Program (Net-Zero Kohinoor University®)

## Major Faculties

### Urja Mandir University® Innovations

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### Harvest Biomass Collaborative Worldwide® (G77-Ex Gujarat,India) (Ongoing Participants)

- \* Major Universities- Worldwide**  
(PPP;AMUL, L&T, Tata Inst, Major ITcos,etc)
1. Industrial Boilers
  2. Nandesari Industries Association
  3. Drashta Consultants
  4. Concept Bio-Tech
  5. Contract Support Group
    - a) 7 members: US based (G20)
    - b) 25 members: Asia-based(G77)

### Faculties :

- 1) Biomass Resource Assessment
- 2) Biomass Conversion /System Integration Options
- 3) Point Source Pollutants Assessment Vs Biomass /Crops yields
- 4) Long Term Scientific R&D Projects
- 5) GDC-BWF Demo/ Lab Infrastructure With supporting ongoing R&D Centre
- 6) Design & Production Engineering for bulk economical conversion Plants
- 7) World Class 2P ( Poverty Pollution) Monitoring Centre/s
- 8) Demonstration & Clinical Trials for APPS