

# Biomass Systems Demise & "Inconvenient Truth"

#### **BMF**

Biomass Crisis Business Development

# GCN & Associates At Biomass Industry Pinnacle

After 38 years evolution GCN and associates have worked the way to the top understanding real time biomass reduction problems and developing connections within key public agencies.

Considering present Ag & Forest biomass surplus dilemma, creating **Biomass Mitigation Fund (BMF)** is overdue. Typical biomass grants have not been effective bridging the investment risk associated with startup, grassroots project development.



# Growing Biomass Surplus With Few Economic Benefits

- Climate change carbon sequestration
- Improved Air & Water quality
- Biomass residues volume reduction
- Wildland fire urban defensive space
- Handling logistics management jobs
- Conversion systems operation jobs
- By-product handling & marketing jobs

#### **BMF** Definition

- An innovative way to share the risk of developing biomass conversion projects.
- BMF is limited to private sector, resource conservation and environment mitigation solutions.
- BMF is similar to an SBA start-up loan, yet unsecured, experience based and mutual benefit dependent.

# Nonpartisan Issue: Why BMF Is Needed?

- California markets for biomass power plant fuel and other products produced from wood reduction operations have collapsed.
- The reduction problem is massive and growing with no plan except, continue chasing SB 32 solutions mirage at the large scale!
- All existing agency supported biomass financing programs require in business at least 3 year and well thought out business plan with 5 years+ projected P&L, plus collateral!

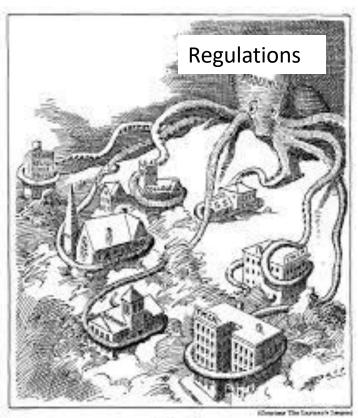
#### Continued

- SB 32 compliance has made it impossible for small company startup and business expansion.
- Labor regulations and liability insurance discourage hiring employees.
- Well intended laws are strangling solutions for small scale operations.
- No matter what the conversion technology, biomass business development is a financial risk management business.

# SB 32 Compliance

Generally, only larger well established companies can absorb the added time, paperwork, expense hiring specialists to handle all the compliance reporting issues, continuous law modification to:

- Water Quality
- Air Quality
- Carbon Tracking
- Permitting Fees
- Legal Fees
- Labor Laws
- Engine Permits
- Others



The Georges

#### SB 32 Green Industries

#### **CHOOSING 1 OF 3 GREEN INDUSTRIES**

- 1 Sustainable Farming / Farm Energy / Soils Nutrients
- 2 Urban MSW & Industrial Recycling & Energy
- 3 Wholesale Utility Power / Transportation Fuels

#### **Biomass**

Gasification / Pyrolysis

Orchard Wood

**Activated Carbon** 

**Biochar Blending** 

Soil Nutrients

**Aerobic Processing** 

**Forest Thinning** 

### Recycling

**MSW Incineration** 

Plasma Arch

Landfill Disposal

**Landfill Biogas** 

Wastewater Treatment

**Bio-solids** 

Composting

#### Energy

**Natural Gas** 

Coal

Nuclear

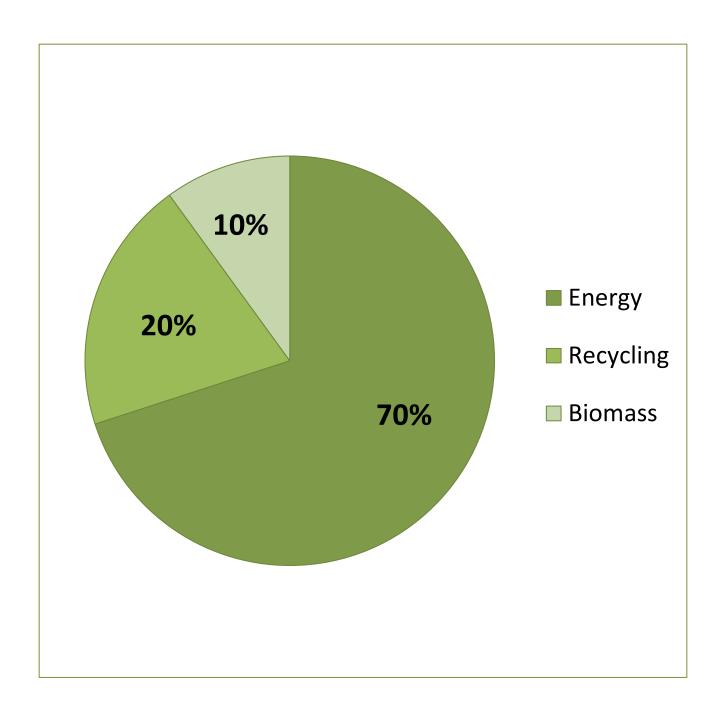
Hydro

Geothermal

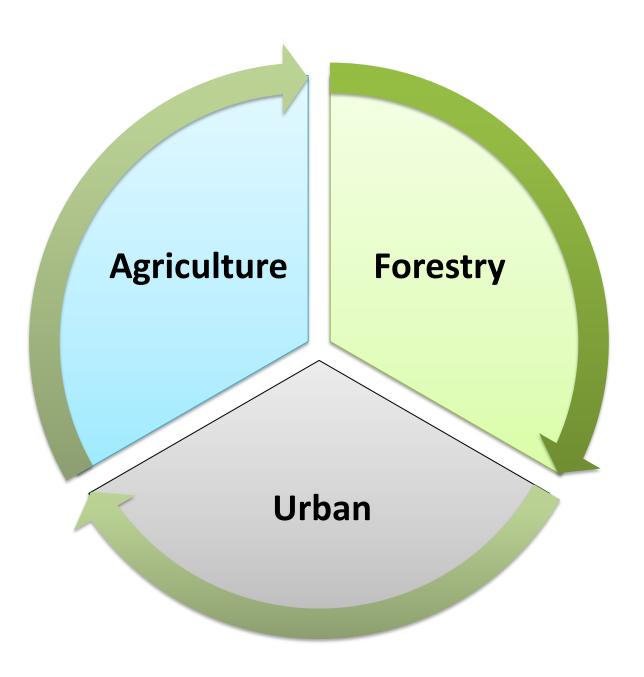
Wind / Solar

**Bio-refineries** 

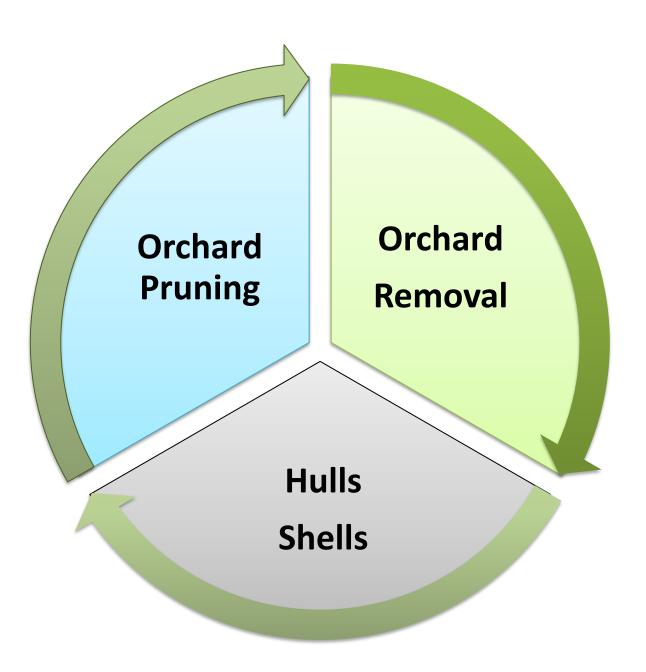
# California Green Technology Estimated Proportion



## **Distinct Biomass Sectors**



# **Ag Biomass Feedstocks**



# "Biomass to Biochar" Cooperative

#### **Business Co-ops for Professionals**

Cooperatives offer distinctive benefits to professionals who want to maintain individual clients and desire to maximize affordability by sharing a business name, offering their services in a shared on-line site or in a shared commercial space, and, if desired, sharing support staff.

By working together with like professionals, they can gain marketing advantages, reduce overhead costs, reap quantity discounts on supplies through joint purchasing, and maintain control over their work/practice.

#### **Calif. Center for Cooperative Development**

https://cccd.coop/co-op-info/co-op-types/business

# **BMF Pilot Program Collaboration**

A **pilot program**, also called a feasibility study or experimental trial, is a small-scale, short-term experiment that helps an organization learn how a large-scale project might work in practice.

- Madera EDC / Bobby Kahn
   https://maderacountyedc.com/
- Manteca EDC / Don Smail
   https://www.ci.manteca.ca.us/
- Colusa EDC / Ben Felts
   https://www.colusachamber.com
- Chico 3CORE / Marc Nemanic
   http://www.3coreedc.org/loan\_programs/

#### Interim BMF Governance

#### **Green Carbon Nexus**

There are biomass experienced associates willing to donate time with a startup steering committee

Bill Kidd – CPA / Finance Planning
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