

RICHARD SCHROEDER

President, BioResource Management, Inc.

EDUCATION

Master of Business Administration, 1990, Nova University

Master of Agriculture, 1976, University of Florida. Agricultural and Extension Education

BS, Forestry, 1972, University of Florida.

EXPERIENCE

2005-Present: President, BioResource Management, Inc. Firm develops supplies and operations for under-utilized forms of biomass, including biomass energy, recycling, and waste reduction, of sources such as vegetation, animal wastes, and other organic materials.

2000-2005: Vice President Field Operations, Biomass Processing Technology, Inc. headquartered in West Palm Beach, Florida. Responsibilities included project development, biomass procurement, biomass process operations and administrative duties in company developing new technology for conversion of biomass to high value feed, food, and chemical products. Also served as President of Omni Environmental Corp., a wholly-owned subsidiary.

1992-1999- Vice President of Consolidated Resource Recovery, Inc., formerly Kenetech Resource Recovery, with offices in Sarasota Florida and Meriden, Connecticut. Primary responsibilities included market development and integration of company's current operations with biomass fuel and organic recycling opportunities. During this period annual revenue grew to become the largest urban wood fuel supplier in Florida and largest vegetative recycler in the US.

1989-1992- President, and co-founder of Wood Resource Recovery, Inc. in Gainesville, Florida. Site was the first yard waste recycling site permitted by the Florida Department of Environmental Protection, and shipped the first urban wood fuel to industrial users.

1984-1989- Group Manager for Prison Industries and Diversified Enterprises, Inc. (PRIDE), in Raiford, Florida. Activities included supplying approximately 30,000 tons per year of biomass to a prison central heating facility, the development of a sawmill, planer mill, and pole peeling facility; operating a 3,000 head hog finishing unit and feedmill, and managing 16,000 acres of timber and pastureland.

1976-1984- Florida Division of Forestry, Starke and Tallahassee, Florida. Served in various positions including County Extension Forester, Nursery Supervisor, Forest Products Specialist and statewide Wood Energy Coordinator.

PAST AND CURRENT ASSOCIATIONS

- Florida Forestry Association – Past Chairman, Wood Energy Committee
- Forest Products Society - formerly Southeastern Section Secretary Treasurer
- National Bioenergy Industries Association - company representative for Kenetech, participated in activities of Board of Directors
- Florida Organic Recyclers Association- founding member, served on Board of Directors
- 25X 25 Organization- Florida State Chair

PUBLICATIONS

- Published numerous articles for trade periodicals such as Biocycle and Resource Recycling.
- Authored sections of the Florida Best Management Practices for Yard Trash Recycling Facilities, 1997, published by the Florida Department of Environmental Protection.
- Contributing author in several University of Florida publications researching biomass production and harvesting.
- Langholtz, M, Carter, D., and Schroeder, R., (In Review) The Economic Availability of Woody Biomass, in Wood to Energy: Utilizing Interface Fuels for Bioenergy, USDA Forest Service GTR-xxx.

Partial List of Previous Related Projects

- **1980-1990**
 - ⇒ Served as Florida Statewide Wood Energy Coordinator for the Department of Agriculture and Consumer Services, from 1980-1984. Conducted educational programs, performed feasibility tests to convert state facilities to wood energy.
 - ⇒ Fuel Supply Study, 7.5 MW biomass power plant, Monticello, Florida

- ⇒ Harvesting and fuel supply plan, Raiford State Prison Biomass Plant, utilizing 30,000 tons of biomass per year for process steam
- ⇒ Wood waste study and fuel supply plan, 40 MW biomass plant, Auburndale, Florida
- ⇒ Produced and delivered first urban wood fuel to pulp mills in North Florida.
- **1991**
 - ⇒ Completed wood waste study and procurement plan, 74.9 MW power plant utilizing wood waste and bagasse, South Bay, Florida
 - ⇒ Received first permit to compost yard waste in Florida. Gainesville site hosted statewide Compost Demonstration Project with University of Florida, testing feedstocks, additives, and end use suitability of various forms of compost.
- **1992-1994**
 - ⇒ Development of quality specifications and delivery procedures, managed procurement for 17.8 MW biomass power plant, Fitchburg, Massachusetts
 - ⇒ Prepared fuel inspection plan, fuel delivery, and procured fuel for 18 MW biomass plant in Chateaugay, NY.
 - ⇒ Execution of Waste Wood Supply Agreements for 80,000 dry tons with power plants in South Florida.
 - ⇒ Initial fuel supply plan, development of cost estimates, 15 MW closed loop biomass project, Maidstone, United Kingdom.
 - ⇒ Investigations and development of cost estimates for 40 MW power plant utilizing bagasse and energy crop wood in Puerto Rico.
 - ⇒ Development of fuel supply and preparation of wood fuel study for 25 MW waste wood plant in Chicago Heights, Illinois.
- **1995-1999**
 - ⇒ Developed and managed railroad tie recycling program in Chicago; recycled 200,000 ties in 1995.
 - ⇒ Preparation of cost estimates and production requirements for 50 MW closed loop biomass project in Renville, Minnesota.
 - ⇒ Negotiated and executed contract to mechanically mitigate wetlands, remove exotic pest trees from 1,400 acres of state-owned land and utilize harvested material for products.
 - ⇒ Managed initiation of delivery of 80,000 dry tons of biomass under a thirteen-year supply agreement with cogeneration projects at sugar mills in Florida.
 - ⇒ Participated in study, "Economic Development Through Biomass Systems Integration in Central Florida", sponsored by the University of Florida and the National Renewable Energy Laboratory.
 - ⇒ Participated in international exchange with the University of Florida and Sri Venkatsvara University, Tirupati, India, to promote and establish bioenergy initiatives.
 - ⇒ Established wood markets in Florida and Georgia for wood waste biomass fuel with forest industries and textile manufacturers. Successfully marketed over 400,000 tons of biomass.
 - ⇒ Developed projects to test co-fire biomass in utility coal boilers in South Florida; test burns funded by the US Department of Energy.
- **2000-present**
 - ⇒ Identified and developed biomass supply for 250,000 ton per-year processing facility in Okeechobee, Florida.
 - ⇒ Completed agreements for \$40 million biomass processing facility in Trenton, Florida.
 - ⇒ Executed 20-year agreements for development of biomass processing site at Florida landfill.
 - ⇒ Provide coordination and direction in developing dedicated bioenergy plantations in Southeastern US for cellulosic technology facilities.
 - ⇒ Marketed biomass fuel to industrial and institutional customers in the Southeastern US.
 - ⇒ Developed dedicated biomass feedstocks for cellulosic ethanol technology throughout the Eastern US.
 - ⇒ Prepared wood waste supplies and markets for biomass power facilities in Florida, Connecticut, Massachusetts, and Delaware.