

Biomass CHP: A Market Driver to Save the Bay

Al Weed
Public Policy Virginia
Williamsburg, VA
13 April 2011

The Challenge

- * Over 25 years of missed goals
- * The Bay has paid the price for economic development in the entire region
- * How to share the costs of clean-up
- * How to manage the process
- * Reduce both point and non-point sources
- * Farmers' share of costs

TMDL's – Not yet a household acronym

- * Watershed focus
- * Nutrient trading
- * CBC reports
- * Gold standard: cropland to forest
- * Balance farm income with costs of afforestation
- * Time frame –
- * EPA hammer

Energy Crops the Answer?

- * CBC and Biofuels
- * Cellulosic technology not ready
- * Small scale CHP
 - * Proven technology
 - * Thermal market increasing
 - * Crop timing
 - * Urban alternatives

Community Power Initiative

- * Small scale CHP
- * 1000 acres per MW
- * Warm season grasses @ 6-7 tons per acre
- * Native, perennials, fertilizer demands
- * Establishment costs
- * Potential revenues:
 - * Power @ BTU value of coal = 210 acre
 - * Thermal – offsetting NG = 442/acre
 - * Thermal for Oil = 1585/acre, Electricity = 3360/acre

The Rappahannock Project

- * Partners

- * Fredericksburg
- * AP Hill
- * Caroline County
- * Conserv
- * PPV