







## FINANCING for ETHANOL (A "Risky" Business !?)

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## **AGENDA**

Farm Credit System & CoBank

**Underwriting Criteria for Ethanol** 

Technology Risks

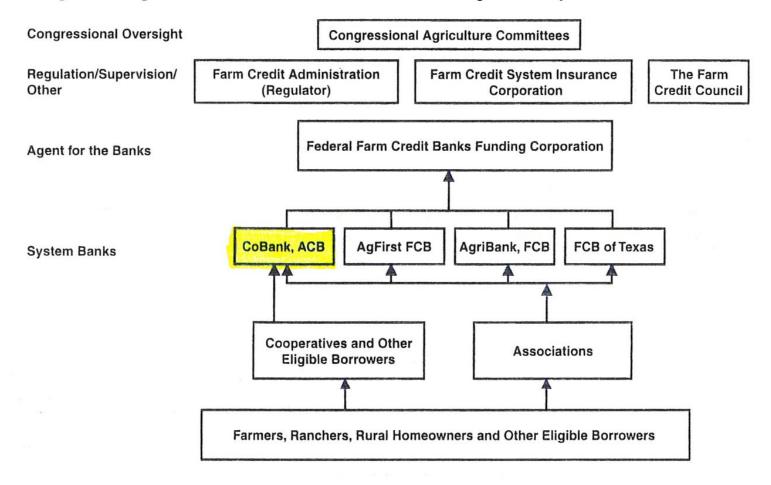
Go Forward Alternatives – Role For DOE ?



#### **FARM CREDIT SYSTEM**

#### Structure/Ownership of the Farm Credit System

The following chart depicts the overall structure and ownership of the System.



## **CoBank Affiliated Farm Credit Associations**



#### CoBank at a Glance

- Member of the Farm Credit System, a Government Sponsored Enterprise with \$353 billion in assets at June 30, 2019
- A broad-based cooperative financial services organization serving vital industries across the rural communities of America:
  - Agribusiness (including ethanol)
  - Communications, Energy, Water
  - Community Facilities
- > \$138 billion in assets at June 30, 2019
- Cooperatively owned by approximately 2,400 customers
- Headquarters outside Denver, CO; regional offices and banking centers throughout the country, with approximately 1100 employees nationwide





## **CoBank – Role in the Ethanol Industry**

- Lead/Agent Bank for approx. \$1.9B of loan commitments & leases
  - 30+ plants/companies <u>plus</u> POET (26)
  - Presently "hold" approx. \$700M credit "exposure"
- > Also \$100M+ of commitments via "participations"
  - Approx. 10 additional plants
- CoBank total net risk/credit "exposure" to ethanol is approximately \$800M
- ➤ In ethanol since 1992, and involved with financing 25%+ of the plants and 1/3<sup>rd</sup> of the gals
- > Farm Credit is the dominant (near only) lender to ethanol
- Other FCS Lead Banks include Farm Credit Services of America, Compeer and AgCountry





#### "UNDERWRITING" CRITERIA

> "LIQUIDITY"\* -- Minimum @ \$.20+/- cents/gallon of proven production capacity

> "LEVERAGE" -- Maximum @ \$-0- to \$.60+/- cents/gal

#### > BUT SUBJECT TO:

- Production history and P&L results
- Technology
- Other Plant Characteristics (i.e., owned grain facilities, plant size, Mid-west location, etc.)

## Debt for New Technologies – Zippo, BUT (let me explain)

- "Debt Capital" vs. "Risk (Equity) Capital"
  - Debt -- "expects" to be paid, accepts a fixed rate of return
  - Equity -- no fixed return, but is rewarded (hopefully) for the risk via share in the profits
  - Grants neither debt nor equity, but serve as risk capital
- Ethanol Industry has been Inherently Risky
  - Supply and demand imbalances
  - Volatile raw material (corn) and finished product (DDG's/corn oil/etc.) values
  - Politics
  - Etc.
- New Technologies Represent Added Risk (and potential rewards)
  - Construction
  - Technology
  - Economic
  - Collateral



## **Construction** Risk – Can Whatever be Built as Proposed?

Project on Budget ?

Project on Time ?

Constructed/Built to Specification ?

> Who is responsible (liable) if not?

## **Technology** Risks – Does Whatever "Work"?

> To Improve Efficiency/Reduce Costs as Proposed?

> To Produce the Quantity at the Quality at the Cost Proposed?

> To Increase Revenue as Proposed?



## **Economic** Risks – Usually the Biggest Challenge!

Can the Quantity of Whatever be Sold as Proposed?

> How Long Before Supply Exceeds Demand, or Does It?

\* [Isn't Capitalism Great !?!]

> Can the Whatever be Sold at the Price/Margin Proposed?

Does the Whatever Produce the Cost Savings Proposed?

## "Collateral" Risks - Yes, Lenders Think About Such!

> What if Whatever is Built Wrong, Doesn't Work, or is Un-Economical?

Can the Whatever be Sold to Another Party?

And at What Value vs. the Cost to Build/Buy/"Bolt-on"?

Note: a/k/a "Secondary Source of Repayment"

### **New Technologies WILL BE IMPLEMENTED**

- Many Plants/Companies <u>Do</u> Have Borrowing Capacity
  - Those with High Liquidity and/or Low Leverage
  - Sound Financial Position AND History of Profitability and Positive Cash Flow
- > Incremental Debt Capacity is Not Available, BUT there IS Capacity
- Subject to Individual Plant/Company
  - Assessment of the "Risks"
  - Risk "Appetite"
  - Financial Capacity
  - Other Strategic Plans
- > DOE Role to Facilitate / Accelerate Adoption of New Technologies ?
  - Grants ?
  - Psuedo-Equity Loans ?
  - Other?



# THANK YOU!