

- **FSRIA – 2002**  
(Farm Security and Rural Investment Act)
  - Promotes economic development - new jobs in rural America
  - Provides new markets for US Farm commodities
  - Reduces dependence on foreign oil



**Foundation for Bio Preferred**

# The FSRIA Mandates

- US Dept of Agriculture to designate bio-based products
- Directive to all federal agencies to increase purchase and use of preferred products
- Audits to ensure compliance
- [www.biobased.oce.usda.gov](http://www.biobased.oce.usda.gov) for details



**This is Federal Law**

- 'Fluid-filled transformers, including vegetable-oil based transformer fluids' now designated as BioPreferred product
- Agencies have one year to review, rewrite specifications
- **Rule affects new purchases after May 14, 2009**
- [http://www.access.gpo.gov/su\\_docs/fe\\_dreg/a080514c.html](http://www.access.gpo.gov/su_docs/fe_dreg/a080514c.html)
  - Reference 'Designation of Biobased Items for Federal Procurement'
    - *See 27928-27956 for details*



**Action must be taken -  
Specifications Updated**

- Fire safety ROI
  - No fires, cleanup, downtime, or replacement costs
  - Enables cost effective interior building units
  - Reduced separation distances
  - Reduced fire mitigation requirements (sprinklers, vaults, etc.)
- Extended insulation life ROI
  - Insulation system 4-8X extended lifespan
  - Transformer asset extended lifespan
  - Although all transformer components may not last 4-8X longer, utilities have utilized 33% to 100% asset life expectations in NPV calculations.
- Environmental ROI
  - Environmental safety (no hazardous fumes, fires, reduced spill mitigation)
  - Reduced carbon emissions
    - Potential carbon trading value
    - PR value

FR3 fluid yields a total life cycle cost advantage over other dielectric fluids. Customers have incorporated these tangible benefits into NPV analyses to justify the adoption of FR3