

FENESTRATION ENERGY  
RESEARCH AND  
IMPLEMENTATION-  
NFRC-DOE

AGREEMENT REVIEW

EE00005422

**2010-present**

# PURPOSE, OBJECTIVE, SCOPE, TOTAL COST

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- Purpose: perform fenestration energy research and implementation
- Scope: research, implementation, new ratings, compliance enforcement
- Cost: \$2 million total:
  - \$1.6 million/\$400,000 DOE/NFRC over 5 years
  - ~\$400,000/\$100,000 DOE/NFRC each year

# PROGRESS, ACCOMPLISHMENTS AND SIGNIFICANT MILESTONES, OUTCOMES

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- CMA Improved Algorithm Research-will finish late 2012
    - Improve CMAST simulation accuracy
  - Window 6-Therm 6 Validation Research-will finish late 2012
    - Enable some attachment ratings
  - Complex Product VT Research-Bid evaluation underway
    - Enable TDD VT ratings
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# **PROGRESS, ACCOMPLISHMENTS AND SIGNIFICANT MILESTONES, NEW PRODUCTS**

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- Release 1.2.03 of CMAST
  - Greatly improved operation, speed
- ENERGY STAR independent verification program (IVP) underway
  - Pilot program in 2012
  - Full implementation 2013

National Energy  
Rating Council

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# NEXT STEPS

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- Research
  - Seek new attachment and VT rating methods
- Implementation
  - Continue CMA implementation
  - Work with energy code officials for enforcement
- IVP
  - Continue ENERGY STAR IVP support