



U.S. Department of Energy  
Energy Efficiency and Renewable Energy

# Energy Conservation Standards for Distribution Transformers

## ANOPR Public Meeting

## Rulemaking Overview

Building Technologies Program  
Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy

September 28, 2004



## Purpose of the Public Meeting

- To present methodologies and characterize results for analyses to date
- To discuss specific issues related to each analysis
- To seek input from attendees on methodologies, assumptions and data sources
- To describe upcoming analyses and next steps

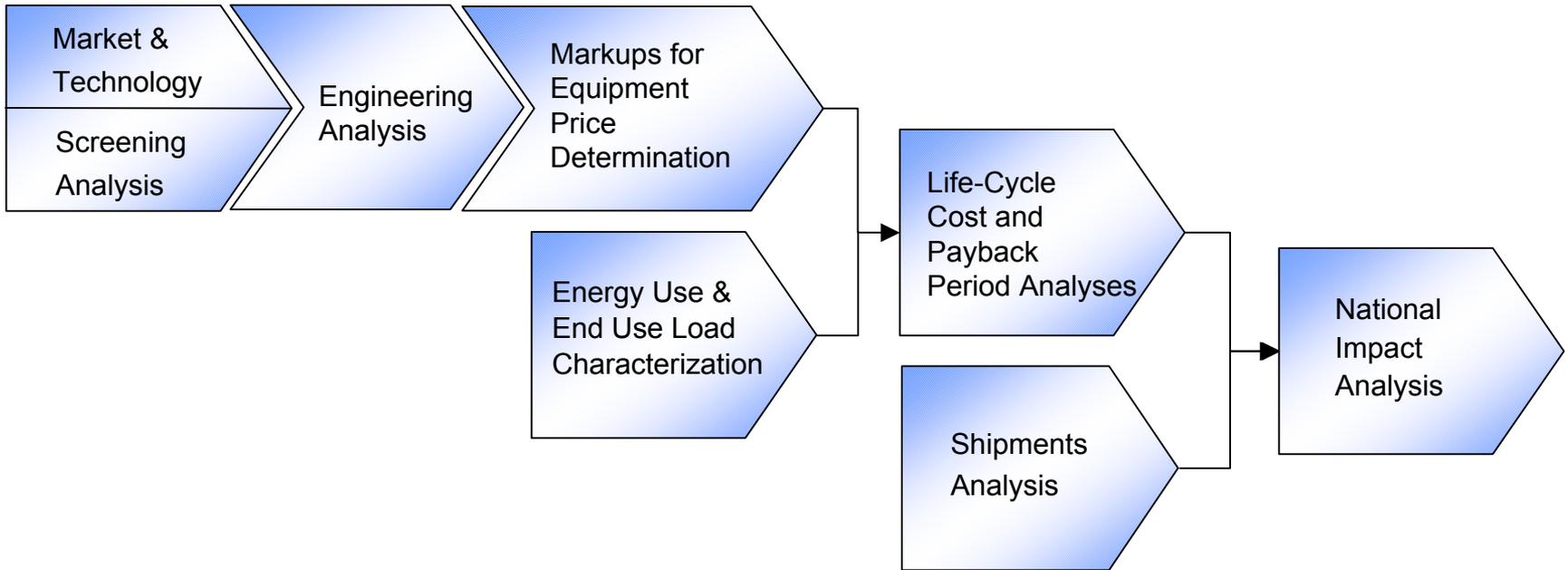
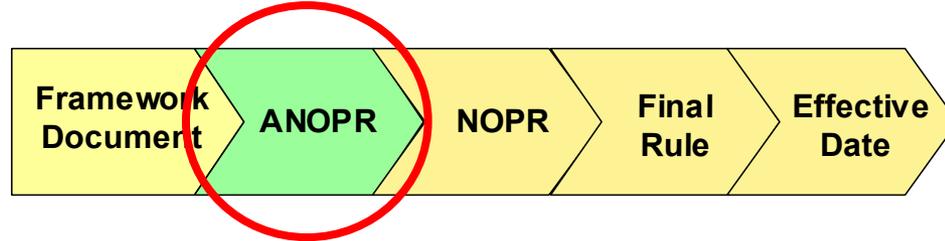


## The Energy Policy and Conservation Act directs DOE to take into consideration seven factors when setting energy conservation standards

<b>Factor</b>	<b>Analysis</b>
<b>1. Economic impact on consumers and manufacturers</b>	<b>Life-cycle cost analysis Manufacturer impact analysis</b>
<b>2. Lifetime operating cost savings</b>	<b>Life-cycle cost analysis</b>
<b>3. Total projected energy savings</b>	<b>National impact analysis</b>
<b>4. Impact on utility or performance</b>	<b>Engineering analysis Screening analysis</b>
<b>5. Impact of any lessening of competition</b>	<b>Manufacturer impact analysis</b>
<b>6. Need for national energy conservation</b>	<b>National impact analysis</b>
<b>7. Other factors the Secretary considers relevant</b>	<b>Environmental assessment Utility impact analysis Employment impact analysis</b>

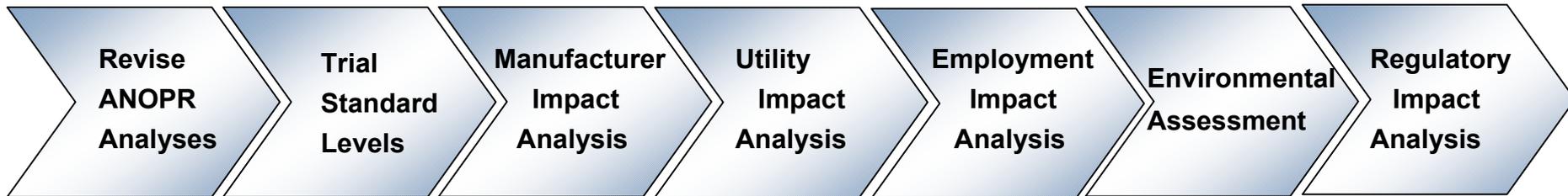
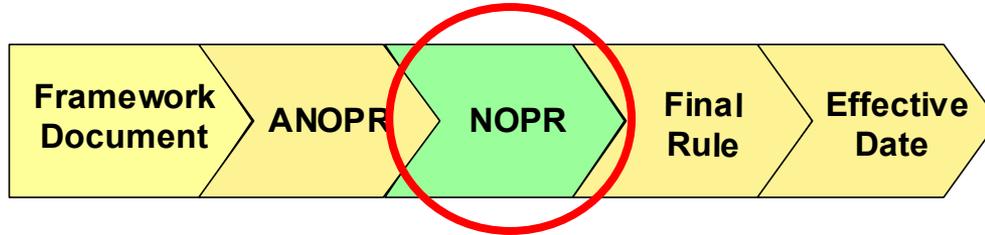


# Steps in the Standards Rulemaking: ANOPR





## Steps in the Standards Rulemaking: NOPR





## Issues for Public Comment

- 1. Definition and Coverage**
- 2. Product Classes**
- 3. Engineering Analysis Inputs**
- 4. Design Option Combinations**
- 5. The 0.75 Scaling Rule**
- 6. Modeling of Transformer Load Profiles**
- 7. Distribution Chain Markups**
- 8. Discount Rate Selection and Use**
- 9. Baseline Determination Through Purchase Evaluation Formulae**
- 10. Electricity Prices**
- 11. Load Growth Over Time**
- 12. Life-Cycle Cost Sub-Groups**
- 13. Utility Deregulation Impacts**



## Comments from Participants

- **Participants are invited to provide summary comments or statements**
- **Participants are invited to raise additional issues for discussion today**
- **ANOPR comment period open through November 9, 2004**