



Industry Partners Meeting: Industrial Motors Breakout Session

Understanding Next Generation Motor Technologies

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Program Manager
Oct. 1, 2009, 11:00-2:00 pm CT
New Orleans, LA

Session Agenda

- ▶ Introductions, Session Overview, Background
- ▶ EISA “Type II” Motors, Legislation Update
 - Rob Boteler, Emerson Motor Company
- ▶ Advanced Motor Technologies Overview
 - Marek Samotyj, EPRI
- ▶ Group Discussion
 - Explore efficiency program opportunities

Session Objectives

1. Define EISA Type II and Advanced motor technologies in industrial motor systems
 - ▶ Applications and industries
 - ▶ Technical and market potential
2. Prioritize next steps
 - ▶ Identify candidate approaches to expand industrial motor efficiency programs
 - ▶ Identify additional research and analysis

CEE Member M&MS Program Profile

- ▶ Programs for Motors & Motor Systems
 - Use NEMA Premium[®] as voluntary standard
 - EISA will eliminate voluntary std. in 2010
- ▶ Working with aggressive savings targets
- ▶ Preference for mass market approaches (where appropriate)
 - Reach more customers
 - Less costly to administer
 - Less time to implement

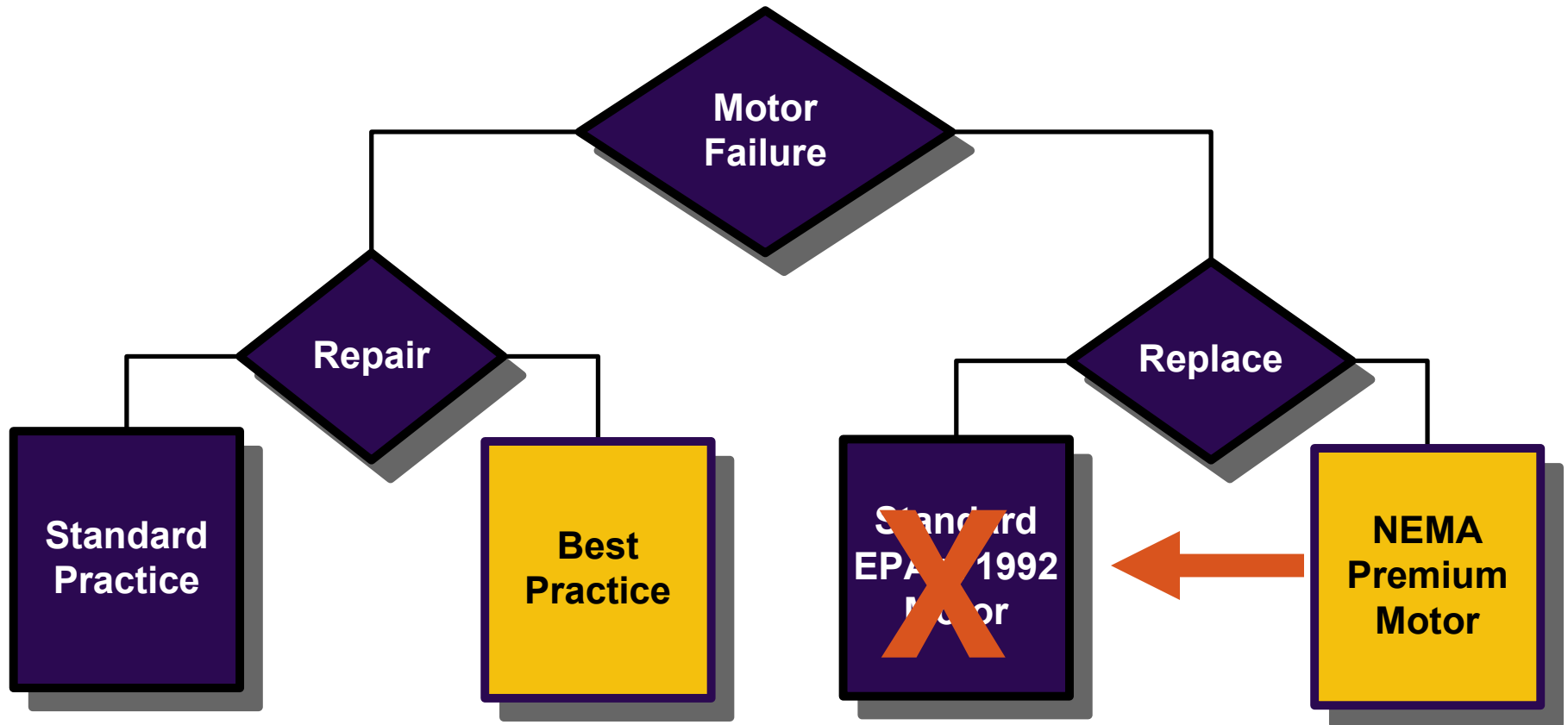
2009 CEE Member Industrial Programs Profile

PROGRAM TYPE	# MEMBERS
Offer Industrial Programs Overall	81
Offer Water-Wastewater Programs	23
Offer Motors & Motor Systems Programs	63
Prescriptive Programs Total	58
Motors: Upstream (vendor) only	5
Motors: Downstream (end user) only	32
Motors: Upstream and Downstream	13
Drives: Upstream and Downstream	42
Targeted Compressed Air Programs	34
Targeted Pump Systems Programs	23
Targeted Fan Systems Programs	20

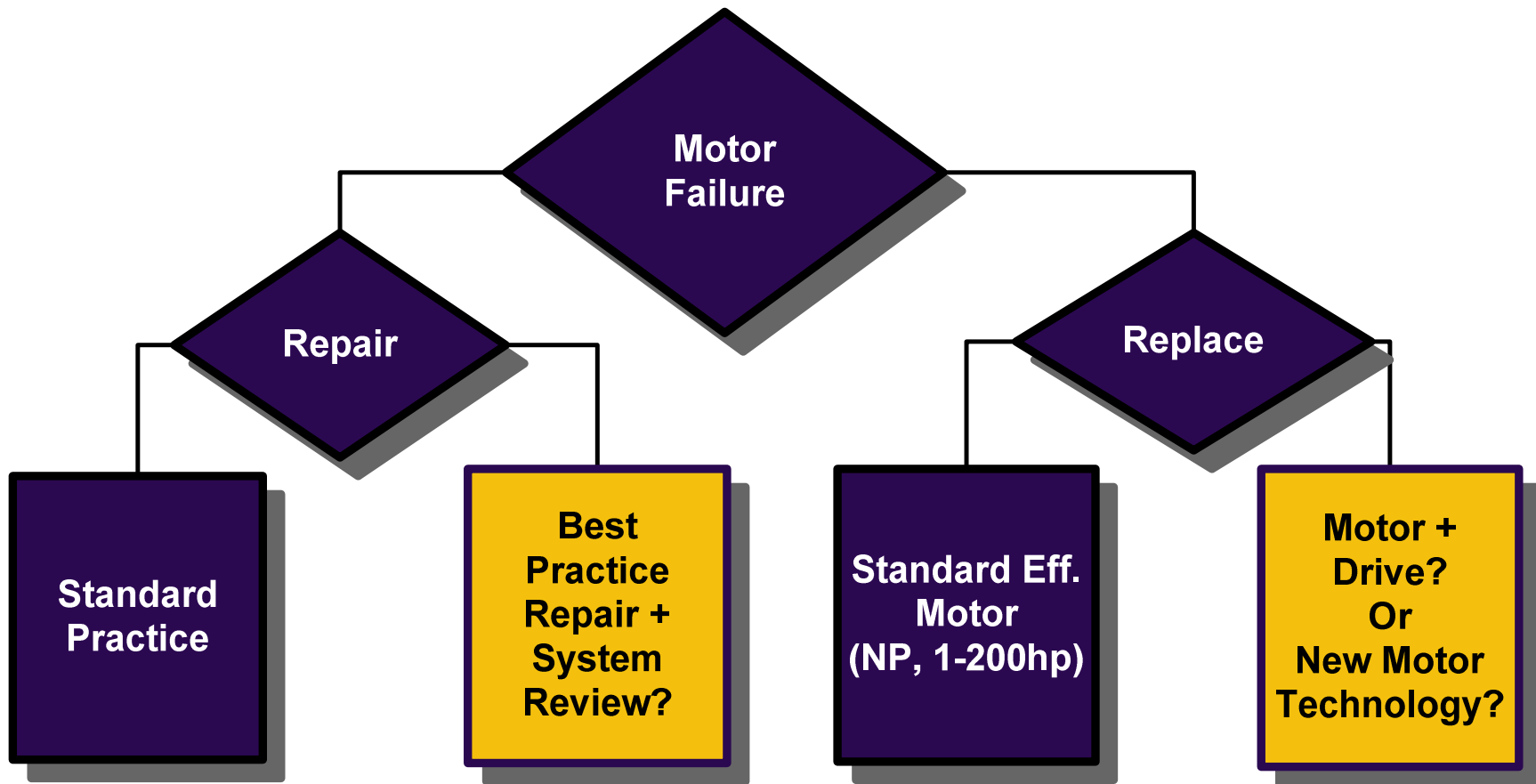
CEE M&MS Initiative Infrastructure

- ▶ 1-200 hp Common Specification
 - Used by 47 members
 - Provides savings and “foot in the door”
- ▶ 250-500hp Guidance Specification
 - Min. stds at EPA Act levels in Dec. 2010
- ▶ Marketing Platform: motor management
 - Motor Decisions MatterSM (MDM)
 - Relationships motor industry stakeholders

Motor Decision-making Before 2010



Motor Decision-making After 2010?



Evaluation Criteria for CEE Initiatives

www.cee1.org/cee/initiative

- ▶ Magnitude and cost/benefit of savings opportunity
- ▶ Consistency in markets across regions
- ▶ Interest and suitability for programs
- ▶ Complexity of influencing decision-makers
- ▶ Permanency of savings
- ▶ Cost and time required to affect market
- ▶ Timing and savings
- ▶ National relevance vs. regionally-concentrated savings
- ▶ Complexity of marketplace
- ▶ Available resources

Motor & Motor Systems Committee: Potential New Program Areas

- 1-200 hp motors above NEMA Premium
 - Proposed “half-measure”: Draft List
- Motors: Specifications for other motors
 - EISA Type II
 - Advanced Motor Technologies
- Motor Systems: Adjustable Speed Drives (ASDs)
- Motor Management
 - Motor upgrade/retirement programs
 - Best Practice repair
 - Outreach and messaging

Presentations

- ▶ EISA “Type II” Motors, Legislation Update
 - Rob Boteler, Emerson Motor Company
- ▶ Advanced Motor Technologies Overview
 - Marek Samotyj, EPRI