



## EPRI In a nutshell – and EPRI's new research into the area of Circuit Breakers

Luke van der Zel EPRI – Power Delivery and Markets

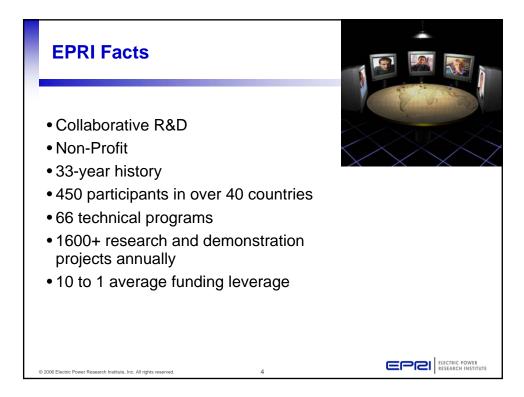
## **Presentation Overview**

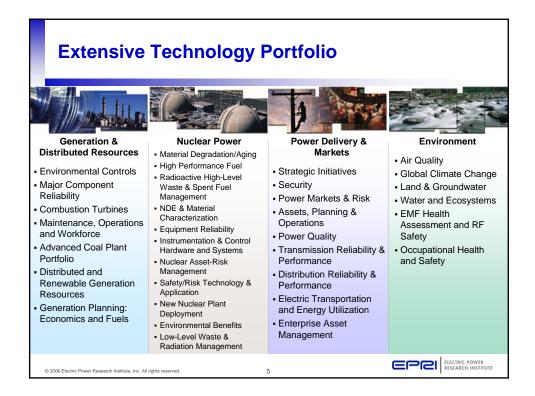
• Thank you IEEE

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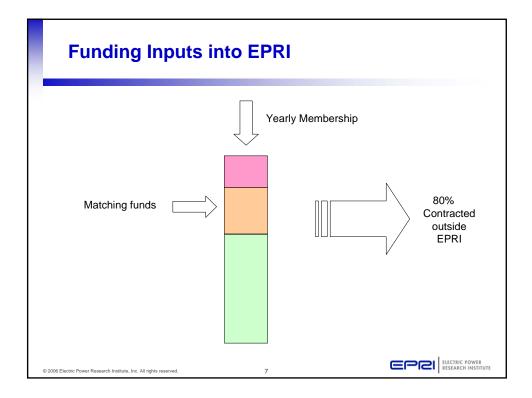
- The 4 main ways EPRI operates
- EPRI's new Circuit Breaker research
  - How we started the program
  - Project 1: Refurbishment/Replacement Methodology
  - Project 2: Using protection for Circuit Breaker diagnostics
- EPRI and IEEE collaboration

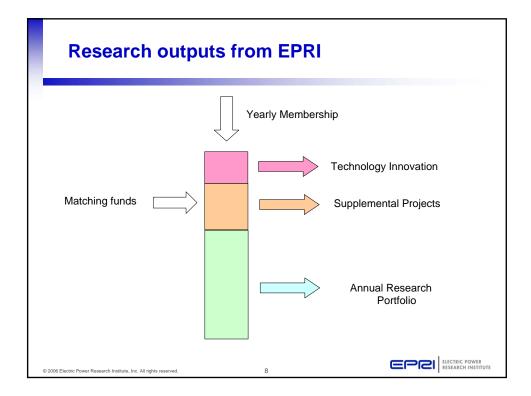


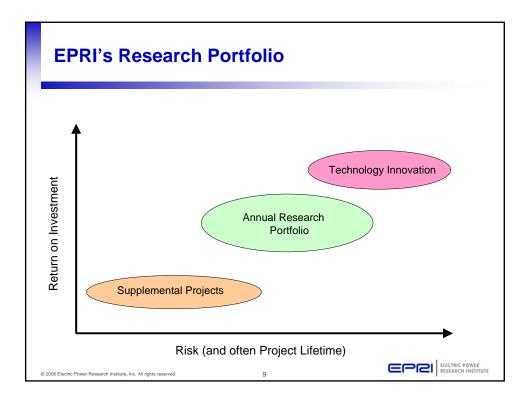


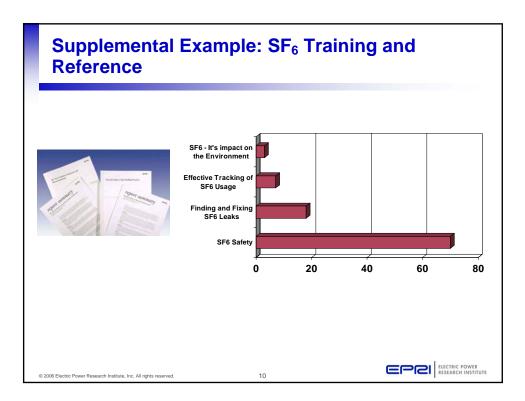


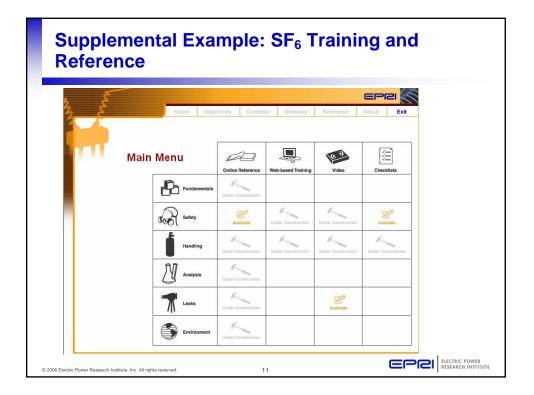


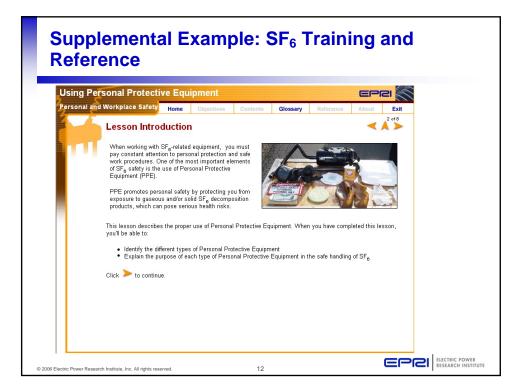


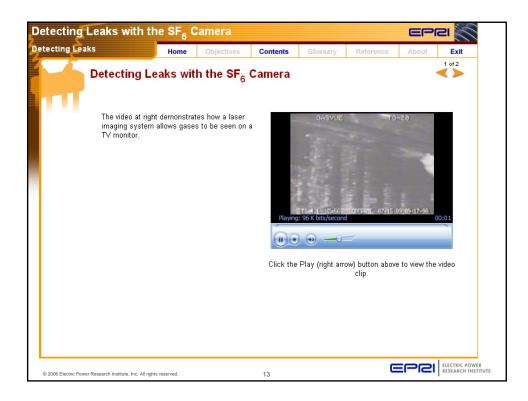


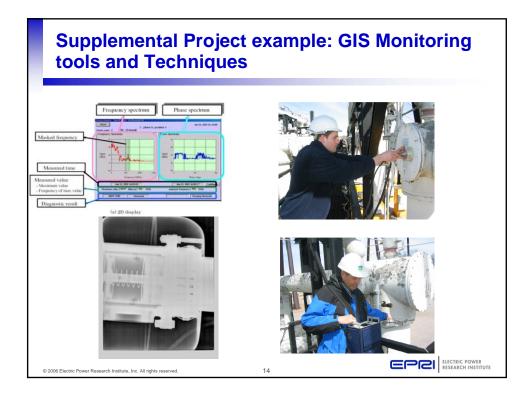


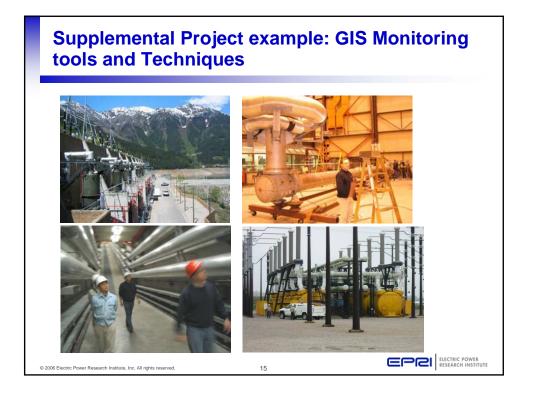












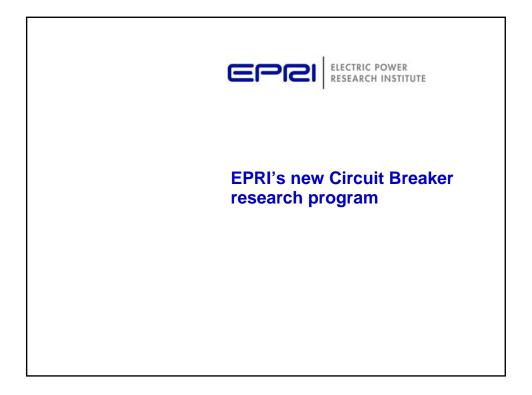


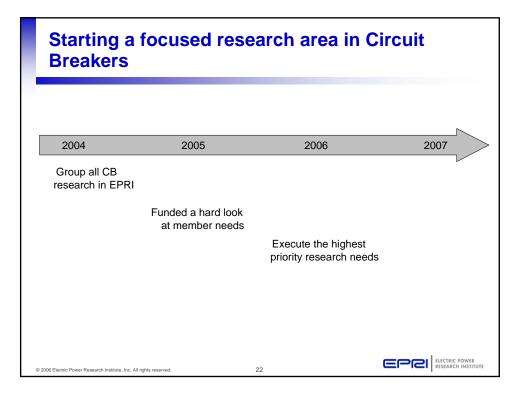


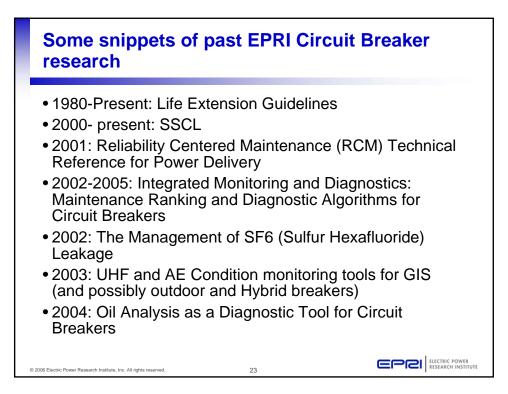












## Ranking of candidate topics (Matched by voting by member dollars)

Candidate 1 – End Of Life Model Candidate 2 - Risk-based Replacement Decision Support Candidate 3 - Health Index Candidate 4 - Establish Benefits of Using Available Data Candidate 5 - SF <sub>6</sub> Guidelines	7 7 6 3	1 1 2	
Candidate 3 - Health Index Candidate 4 - Establish Benefits of Using Available Data	6	2	
Candidate 4 - Establish Benefits of Using Available Data		_	
, and the second s	3		
Candidate 5 - SE, Guidelines		4	
		1	7
Candidate 6 - RCM FMEA		2	6
Candidate 7 - Breaker Industry Database Model	2	4	3
Candidate 8 - Replacement Parts Methodology	2	1	6
Candidate 9 - Collect and Catalogue Best Practices		6	2

Ranking of candidate topics				
PROJECT	High	Medium	Low	
Candidate 1 – End Of Life Model	7	1		
Candidate 2 - Risk-based Replacement Decision Support	7	1		
Candidate 3 - Health Index	6	2		
Candidate 4 - Establish Benefits of Using Available Data	3	4		
Candidate 5 - SF <sub>6</sub> Guidelines		1	7	
Candidate 6 - RCM FMEA		2	6	
Candidate 7 - Breaker Industry Database Model	2	4	3	
Candidate 8 - Replacement Parts Methodology	2	1	6	
Candidate 9 - Collect and Catalogue Best Practices		6	2	

