

**BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND	)	
TRANSPORTATION COMMISSION,	)	
	)	<b>Docket No. UE-050684</b>
Complainant,	)	
	)	<b>Docket No. UE-050412</b>
vs.	)	
	)	<i>(consolidated)</i>
PACIFICORP d/b/a PACIFIC POWER &	)	
LIGHT COMPANY	)	
	)	
Respondent.	)	

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**EXHIBIT NO. \_\_\_\_ (RJF-8)**

**USING ETAPRO TO SUPPORT PACIFICORP'S HEAT RATE INITIATIVE IN A  
COMPETITIVE ENERGY MARKET**

**November 3, 2005**



Leading the World to Better Performance



ScottishPower



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# USING EtaPRO TO SUPPORT PACIFICORP'S HEAT RATE INITIATIVE IN A COMPETITIVE ENERGY MARKET

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Presented at the

**EPRI Heat Rate Conference**

January 28, 2003



# Why a Heat Rate Initiative Now?

In the past, PacifiCorp benefited from low cost coal.....

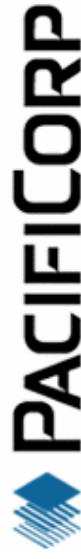
- Heat Rate was secondary to generation
- Fuel costs were passed through to customers

**That all changed.....**

- The Energy Crisis Hit
- Coal prices became unstable and increased 400%
- Scottish Power promised improvements



As one of the lowest-cost electricity producers in the United States, PacifiCorp generates about 8,000 megawatts of energy from coal, hydro, gas-fired combustion turbines, geothermal and renewable wind power.



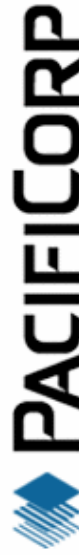
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# PacifiCorp's Heat Rate Initiative

- Implement a comprehensive program to improve various processes associated with plant efficiency & equipment modifications to reduce heat rate 1.0 %
- Key Enablers
  - Install a data historian on each unit
  - Install an On-line Performance Monitoring system on each unit
  - Establish a corporate standard for monitoring and improving unit performance.



PacifiCorp operates 10 thermal electric plants that generate electricity from coal, geothermal or natural gas resources. The company is also part owner of six thermal plants. Together, these plants generate 7,168.8 megawatts of electricity, which account for more than 80 percent of PacifiCorp's generation capabilities.



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