

There Has To Be Some Logic In All Of This!

***H.L. (Bud) Ground
Manager. State Governmental &
Environmental Affairs***

Subtitled:

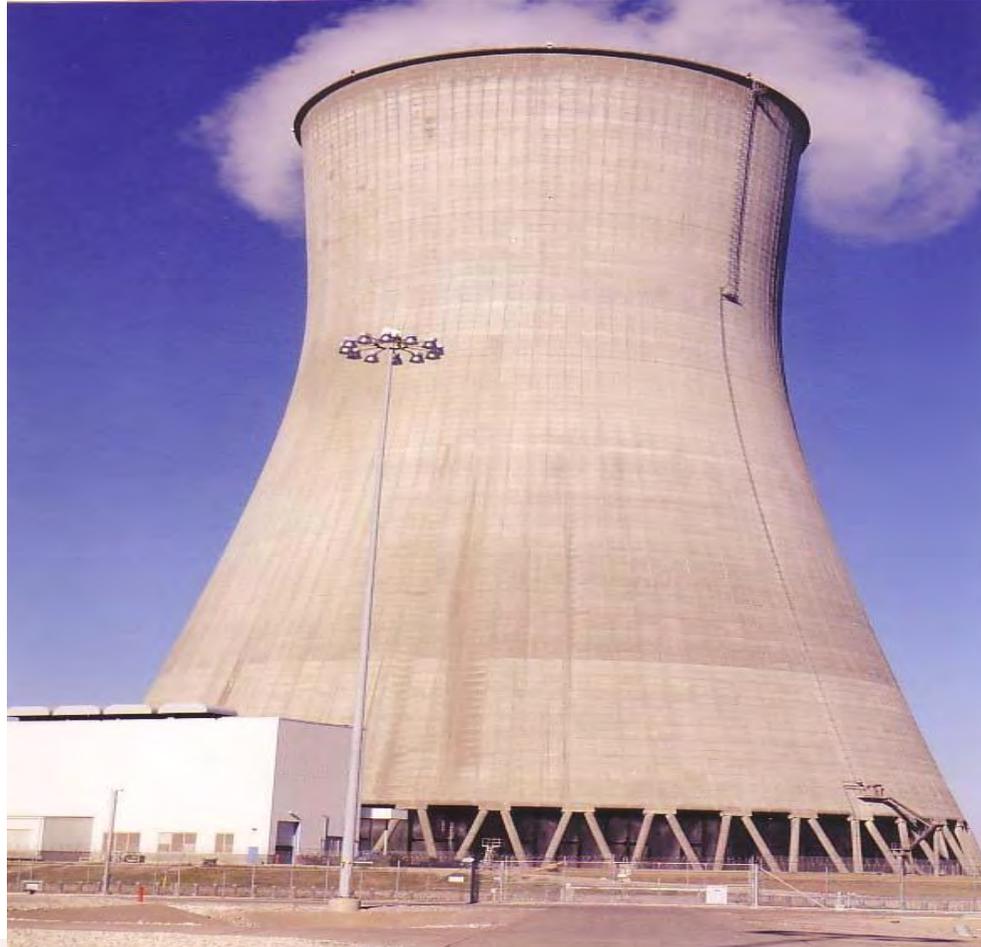
***Don't Do Something
Stupid***



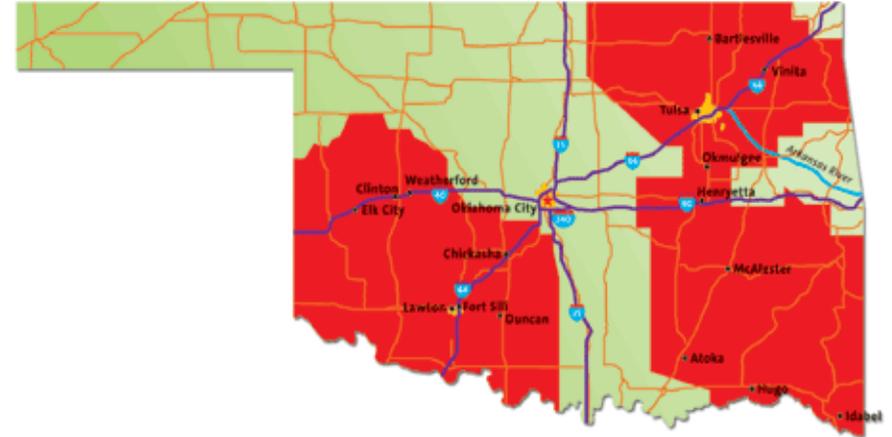
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First a Quiz

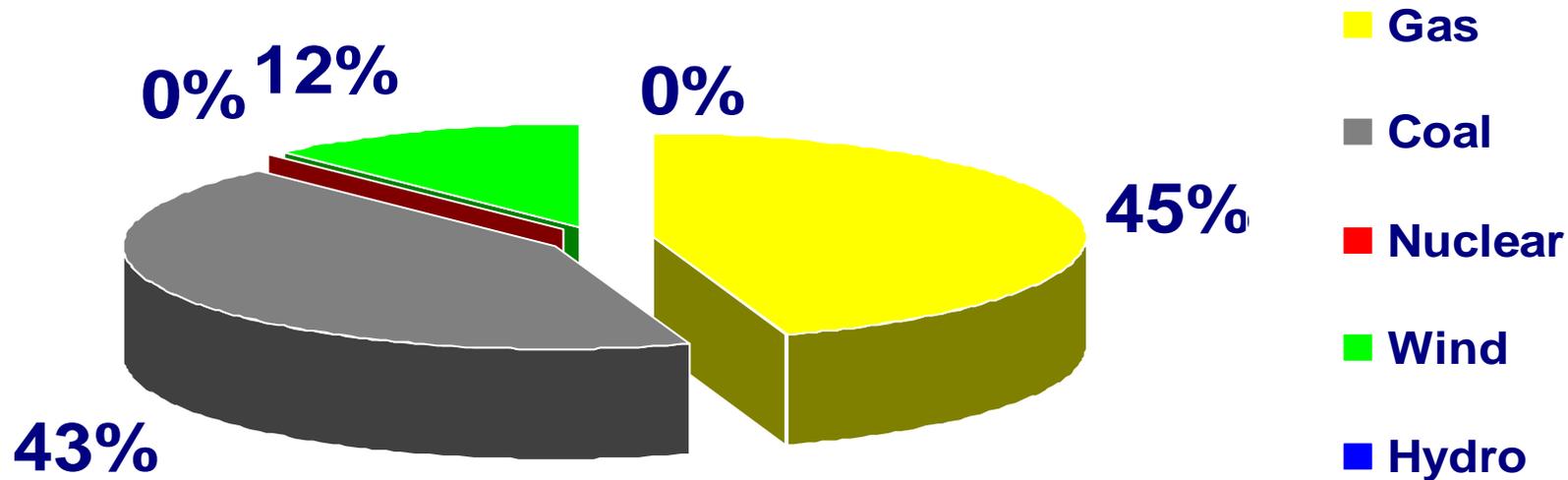
What is this?



- Serving Oklahoma for over 95 years
- Service area: 30,000 square miles of eastern and southwestern Oklahoma
- Customers: approx. 531,000
- Population of service area: approx. 1.8 million
- Employees: 1,690
- PSO-owned generating capacity: 4,408 megawatts
- Purchase 590 megawatts wind by end 2009
- Will be 690 megawatts by the end of 2010
- Operating revenue year-end 2008: \$1.12 billion
- www.psoklahoma.com



PSO Generation Resources





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Growth in Oklahoma

Population growth rate– 1.1% to 3,591,516

***Department of Commerce attributes growth rate to Economic
Diversification***

Population Projections in 2030 - 13.4% above 2000

U.S. Census Bureau

Power Generation Projected Growth – 1.5% /year



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Power Generation Growth

-Water usage will be dependant on technology and DSM implementation

-DSM and energy efficiency hope to reduce growth to 1.0% per year

***Utilities Plan for the Long Term.
We Expect to Operate a Power
Plant for 50 Years or More.***

***We Must Use Logic In
Determining What Type
Generation is Built and Where***



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***We Must Provide Safe, Reliable,
Low Energy for Oklahoma's
Economy to Grow***

Case Study: Use of Treated Sewage Effluent

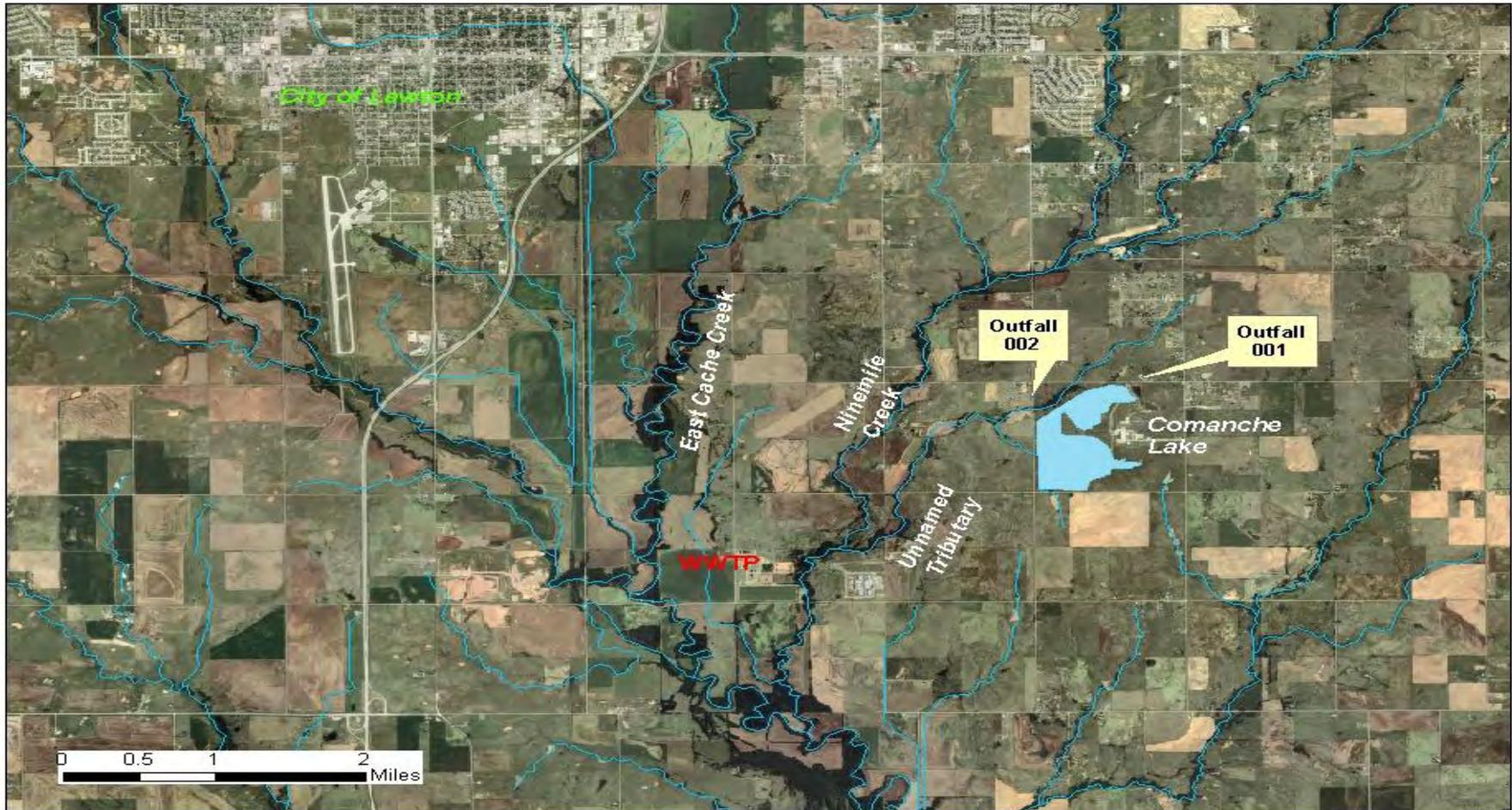
***Have to remember that:
industry and utilities purchase
a large amount of water from
public water supply systems,***



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***Beneficially reuse wastewater
in some cases and
Return a large amount of the
water back into the same
water body.***



***Conducted a Study on
Site-Specific Criteria for
Agriculture and Warm
Water Aquatic Life
Beneficial Uses***

***There Has To Be Some
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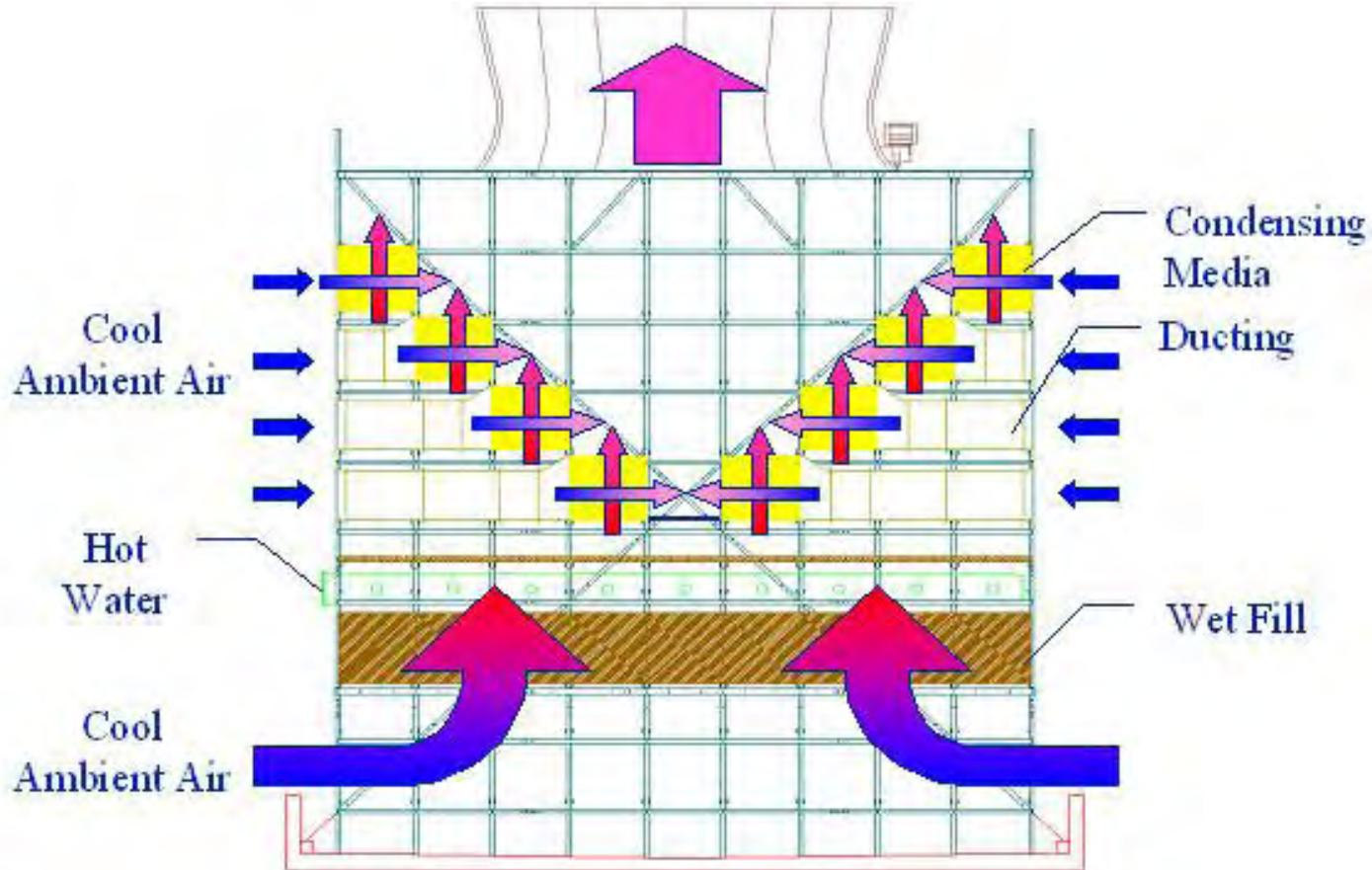


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***There Are New Technologies
Being Developed to Reduce
Water Usage in Power
Generation***

Air to Air System

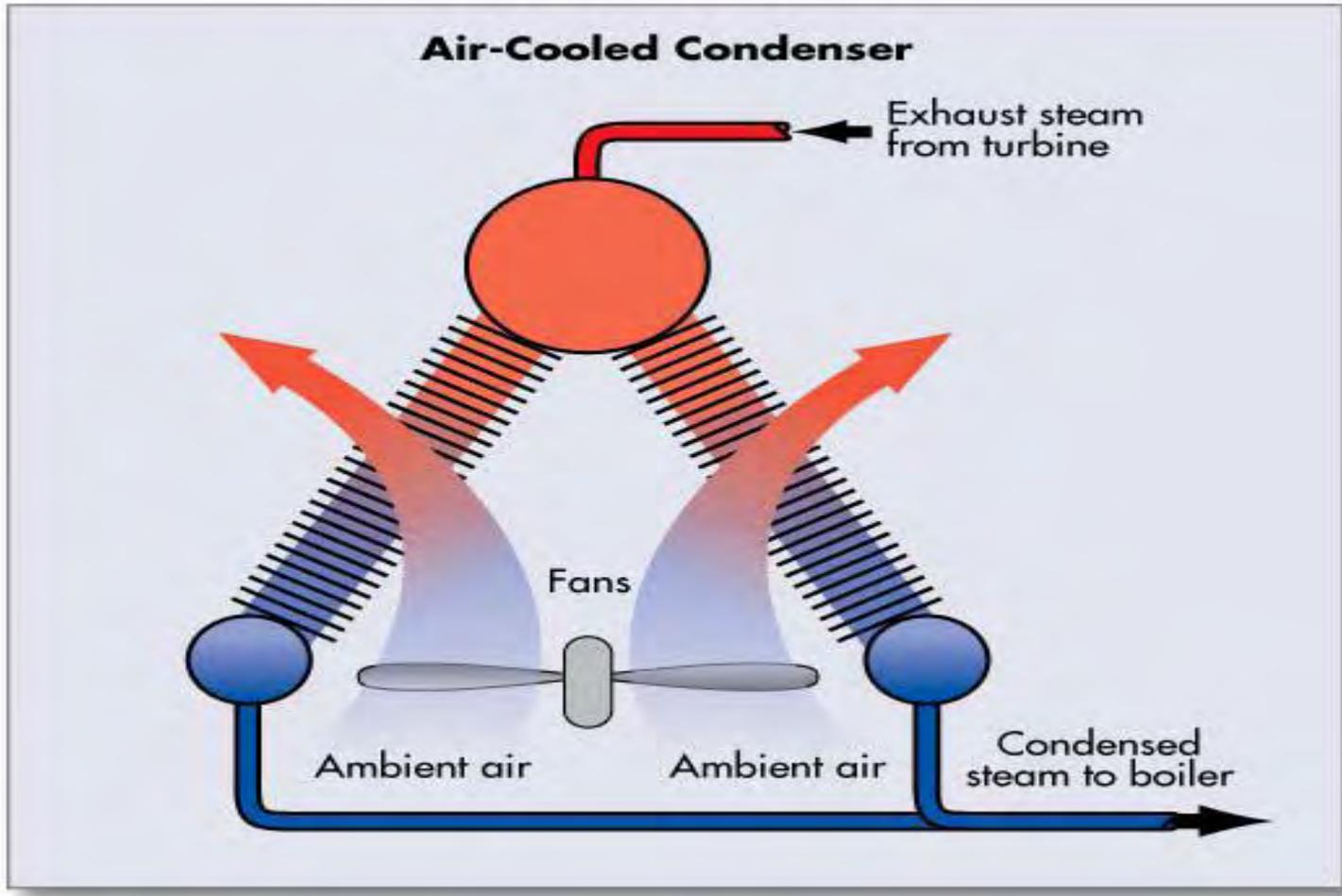




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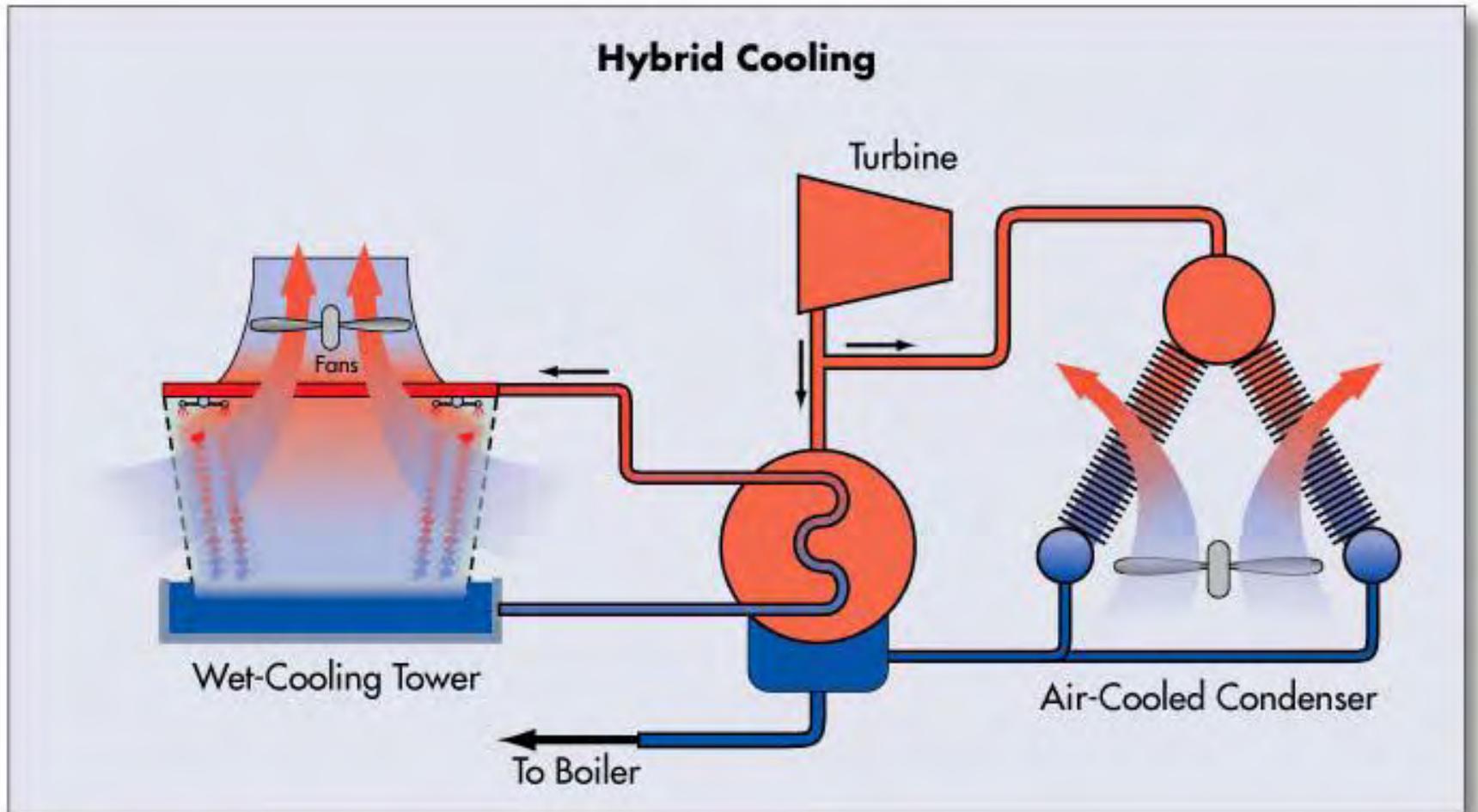
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Dry Cooling Technology



Hybrid Wet – Dry System

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As a general rule, closed cycle cooling systems are more costly and less efficient than once through cooling systems.

Additionally, closed-cycle wet systems are less expensive and more efficient than dry or hybrid systems.

In Closing:

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