

# *Transmission and Distribution of Electrical Power*



*By*



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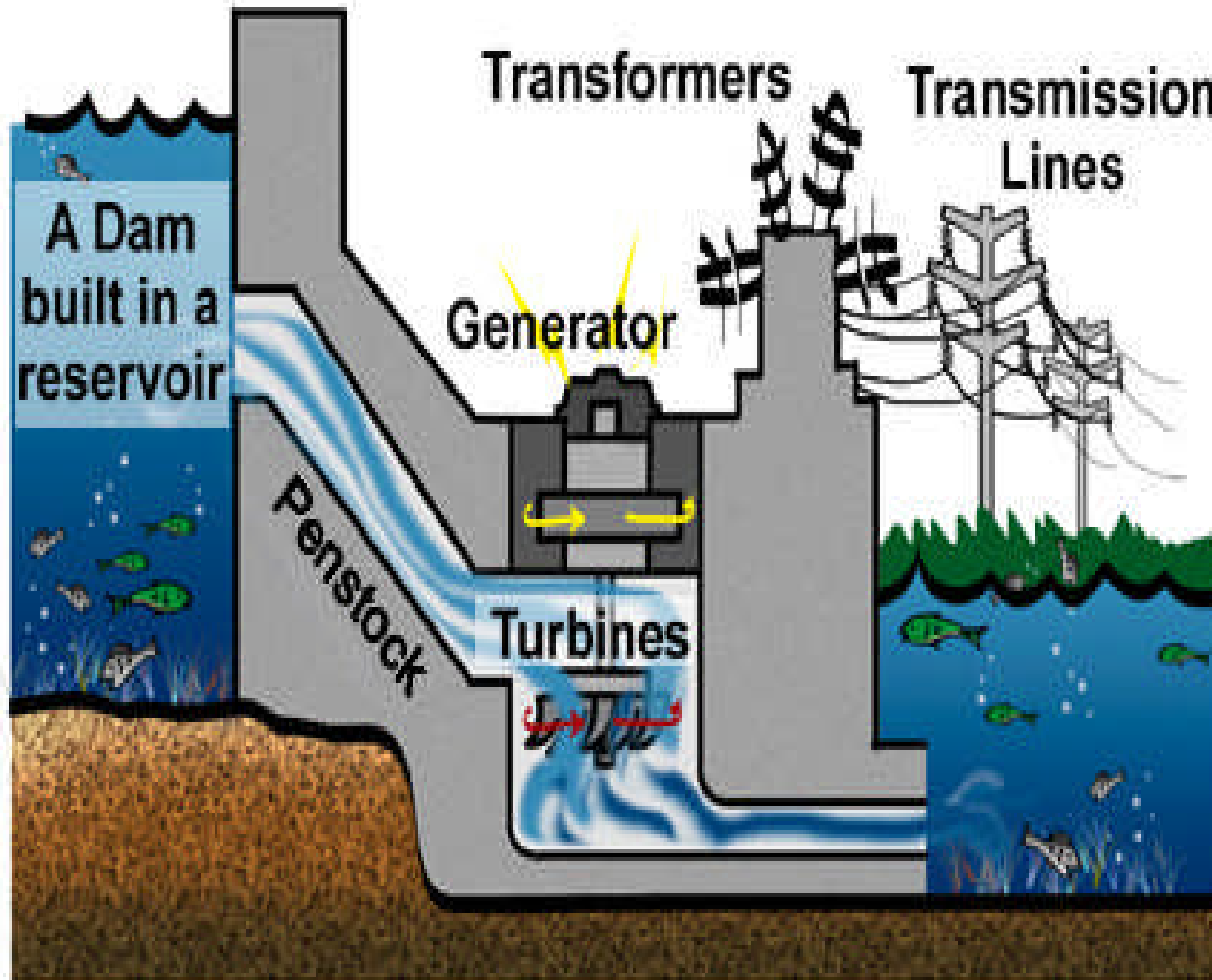


# *Lecture (2)*



# **TYPES Of Power plants**

# Hydroelectric Power Plants



\*Theory of Operation

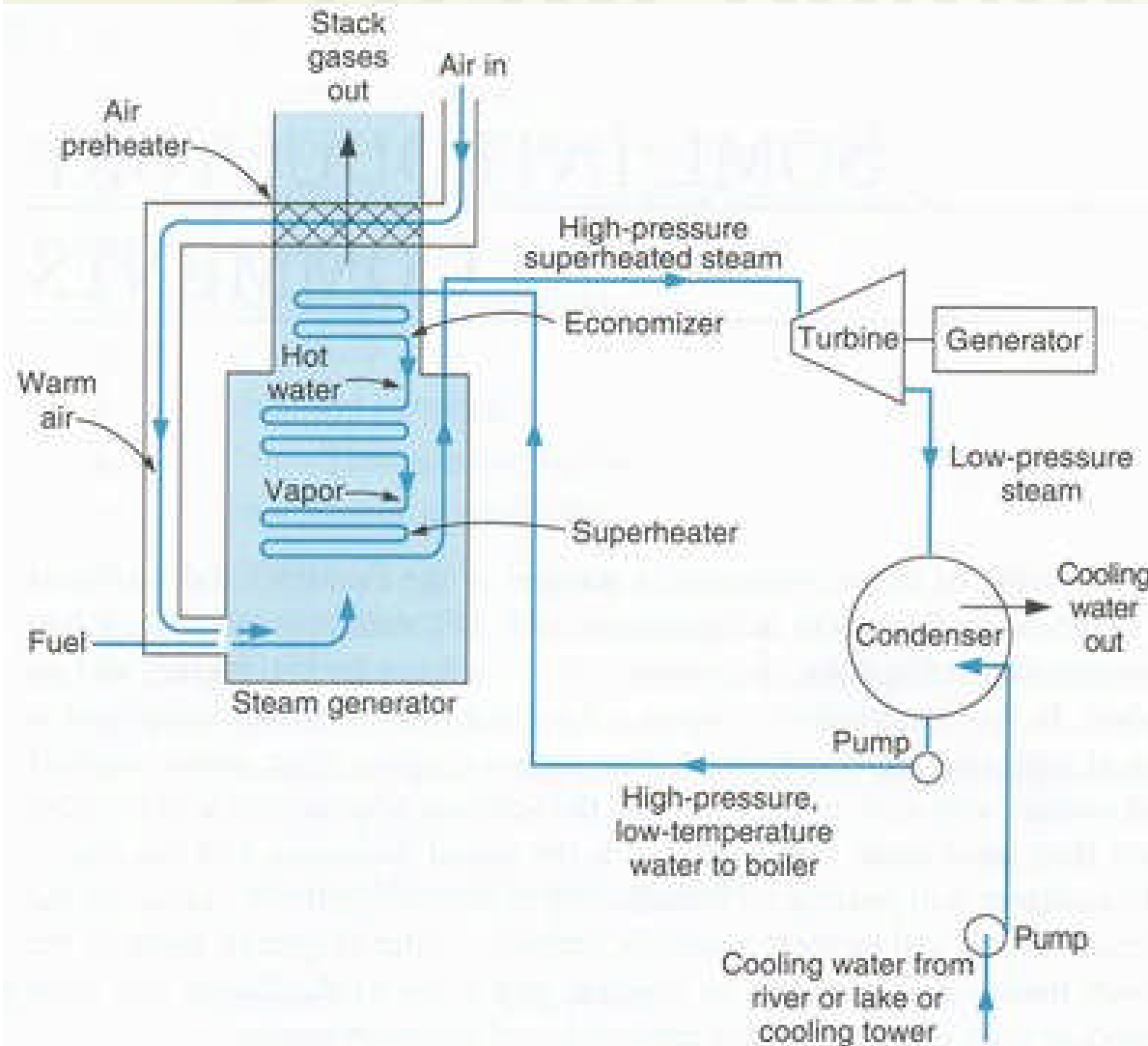
# Hydroelectric Power Plants

\*Advantages of hydroelectric power plant

\*Disadvantages of hydroelectric power plant



# Steam Power Plants



**\*Theory of Operation**

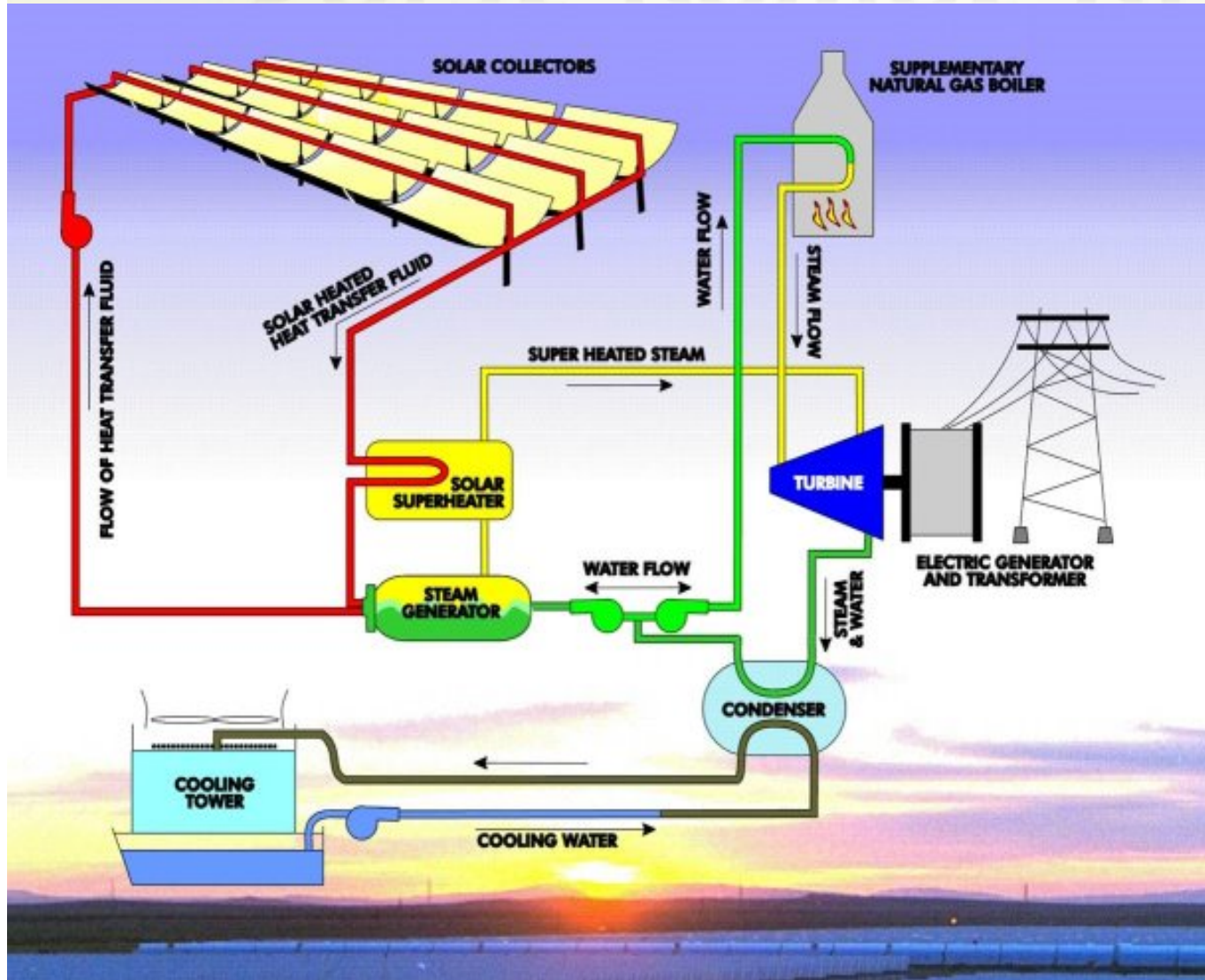
# Steam Power Plants

\*Advantages of Steam Power Plants

\*Disadvantages of Steam Power Plants



# Solar Power Plants



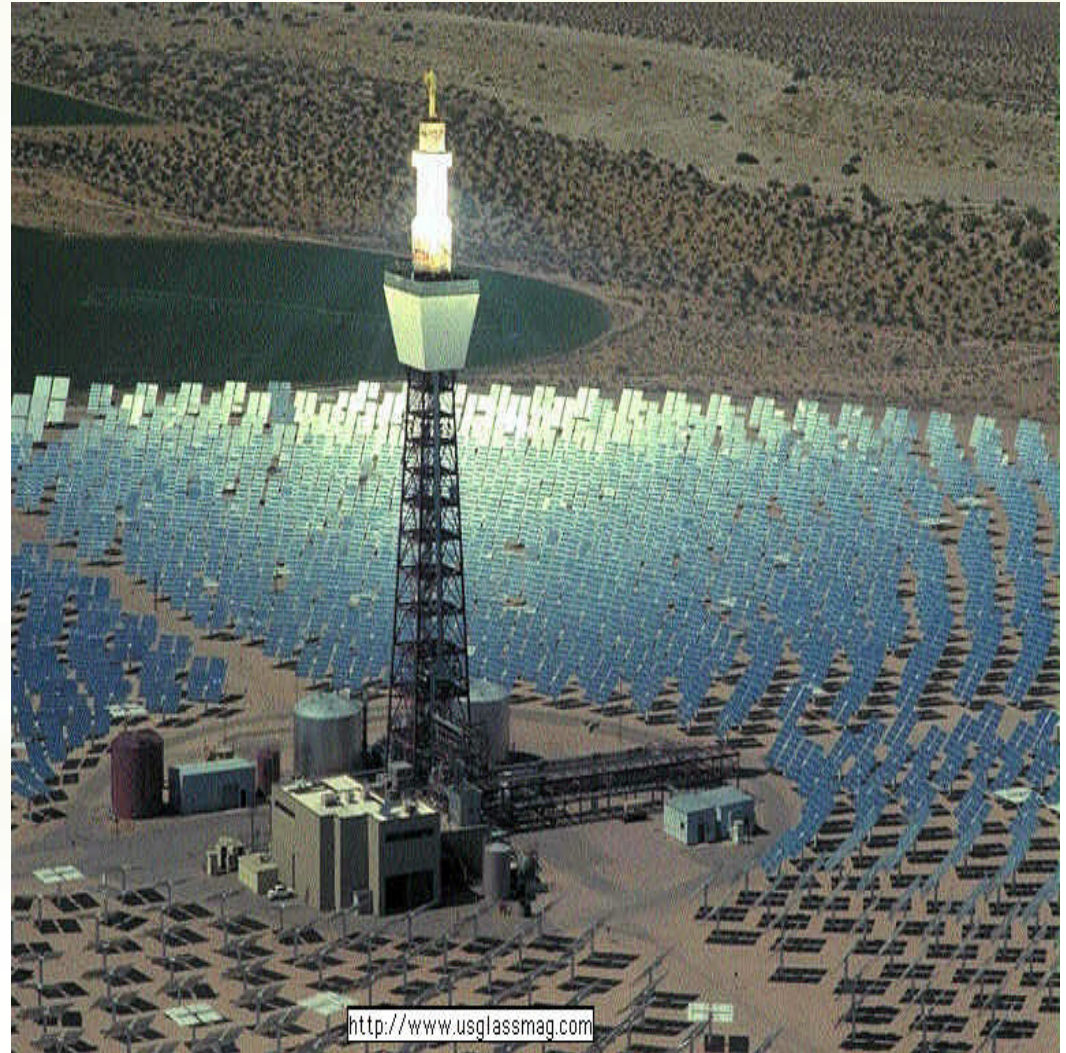
\*Theory of operation



# Solar Power Plants

\* Advantages of Solar Power Plants

\* Disadvantages of Solar Power Plants



# Diesel Power Plants



**\*Theory of  
Operation**

# Diesel Power Plants

- \* Advantages of Diesel Power Plants
- \* Disadvantages of Diesel Power Plants



# Gas turbine Power Plants

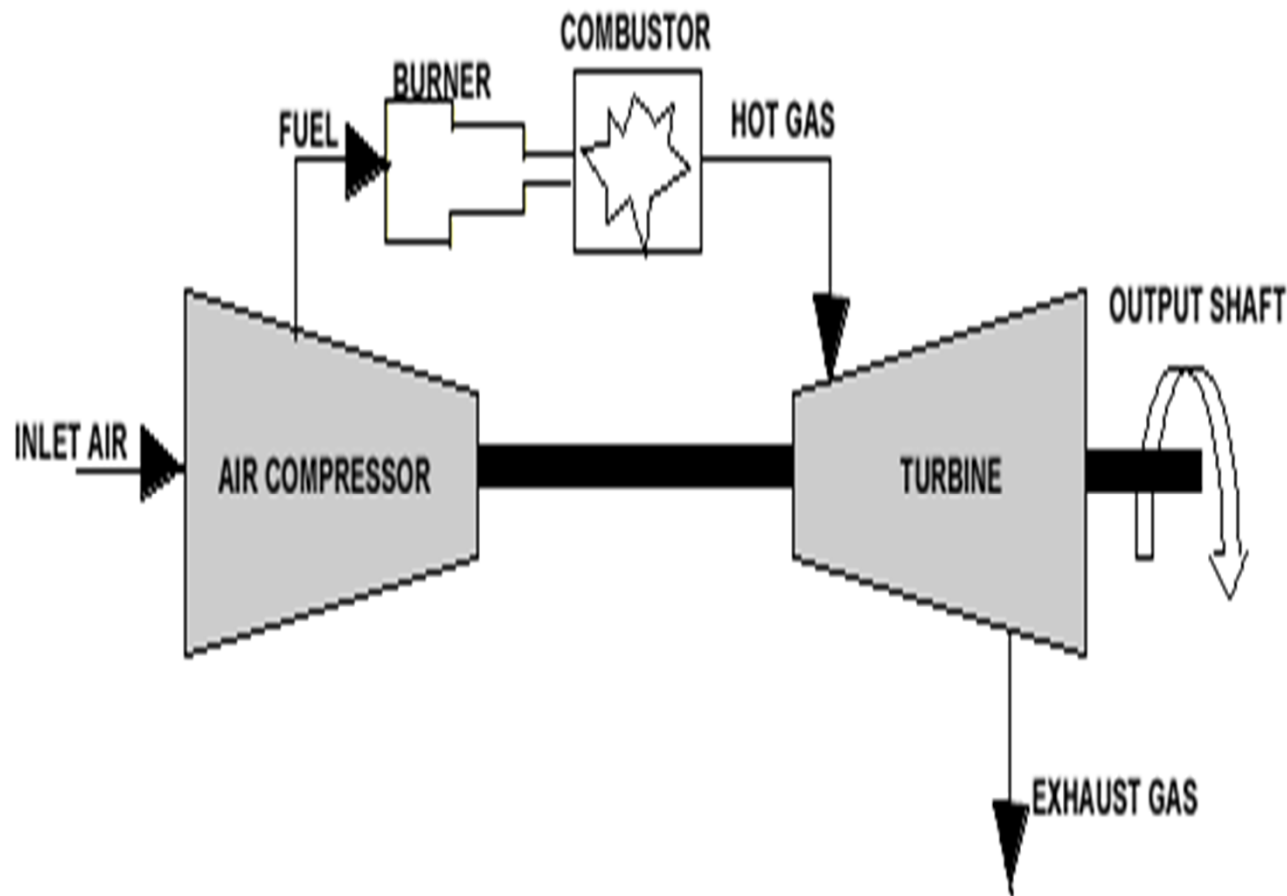


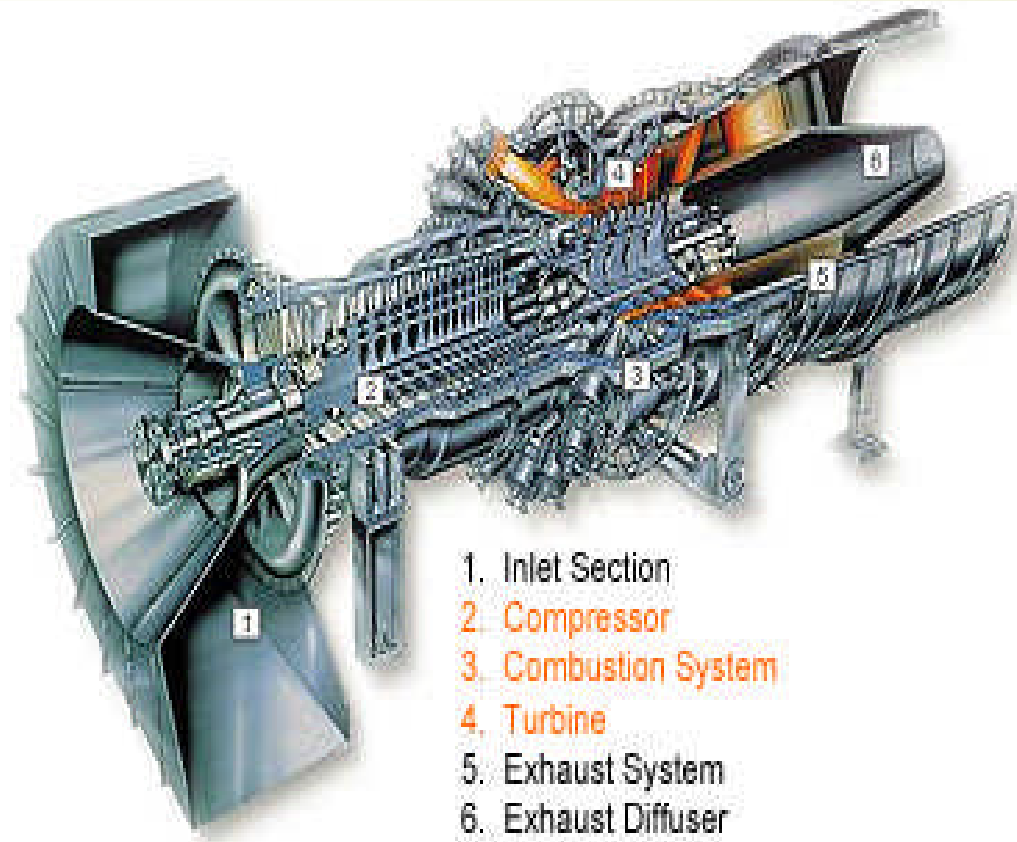
DIAGRAM OF TYPICAL LARGE GAS TURBINE

\*Theory of operation

# Gas turbine Power Plants

\* Advantages of  
Gas-turbine Power  
Plants

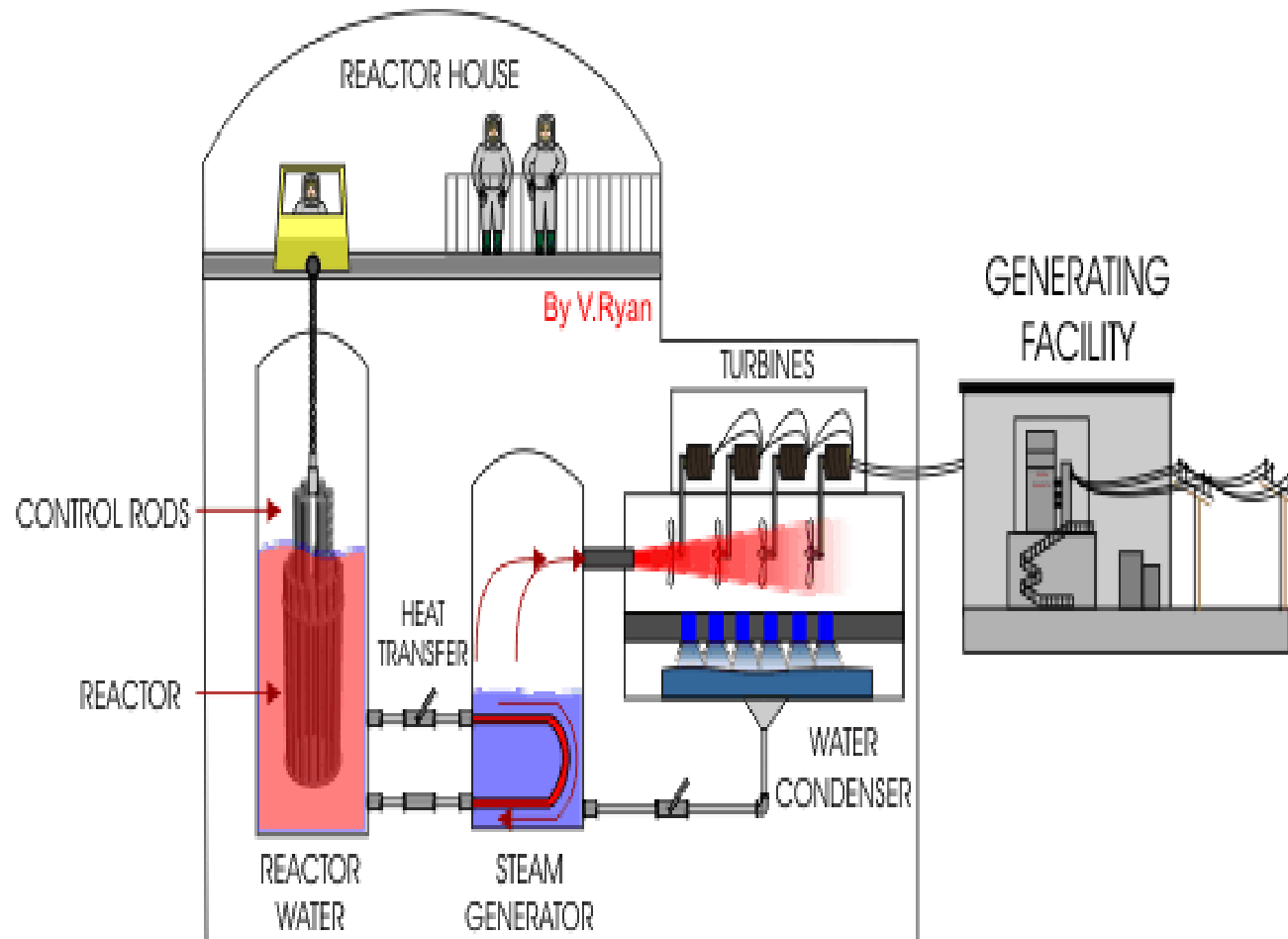
\* Disadvantages of  
Gas-turbine Power  
Plants



1. Inlet Section
2. Compressor
3. Combustion System
4. Turbine
5. Exhaust System
6. Exhaust Diffuser

Courtesy of Siemens Westinghouse

# Nuclear Power Plants



**\*Theory of Operation**

# Nuclear Power Plants

\*Advantages of nuclear power plant

\*Disadvantages of nuclear power plant

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**Thank You  
For Your Attention**



*Mohamed Ahmed  
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