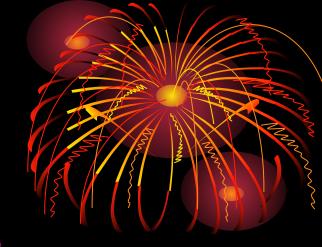


#### Economizer

#### Plan:

- Introduction;
- Steam generator components;
- Economizer;
- Advantages of economizer;
- Boiler economizer;
- Construction of economizer;
- Conclusion.



# Introduction

Steam generators, or boilers use heat to convert water into steam for variety of applications. Steam is widely used on thermal power plants to produce electricity.

#### Steam generator components

The major components in the steam generating and heat recovery system are the following:

Furnace

steam superheaters

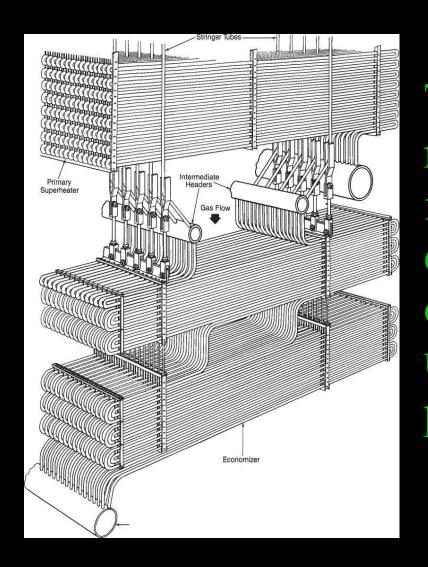
steam reheater

economizer

steam drum

air heater

#### Economizer



The economizer is a mechanical device intended to reduce energy consumption, or to perform another useful function like preheating fluid.

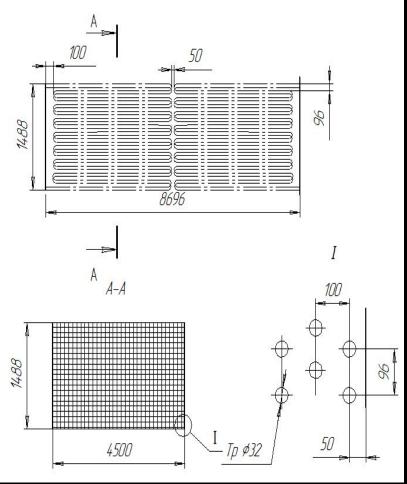
## Advantages of economize

- Fuel economy;
- Longer life of the boiler;
- Increase in steaming capacity.

### Boiler economizer

In boilers, economizers are heat exchange devices that heat fluids, usually water, up to but not normally beyond the boiling point of that fluid.

# Construction of econ



Boiler economizers are series of horizontal tubular elements generally made from low-carbon steel.

### Conclusion

The common application of economizers in steam power plants is to capture the waste heat from boiler stack gases and transfer it to the boiler feedwater.



# Thanks for your attention!