

## Number of Energy audit cases per year

ECCT has carried out energy audit in Factories and Buildings about 45 Facilities per year.

Year	Factories	Buildings	Total	Energy Saving (TOE)
2007	43	2	45	380
2008	40	3	43	360
2009	40	5	45	400
2010 (P)	45	5	50	450

NB : (P) = Planning

## Best Practice

- Installing variable speed drive (VSD) for force draft fan (FDF) of Coal Fired Boiler 16 t/h x 3 units pressure 7 bar (g).
- The generated steam was used in coloring and drying process of textile Factory

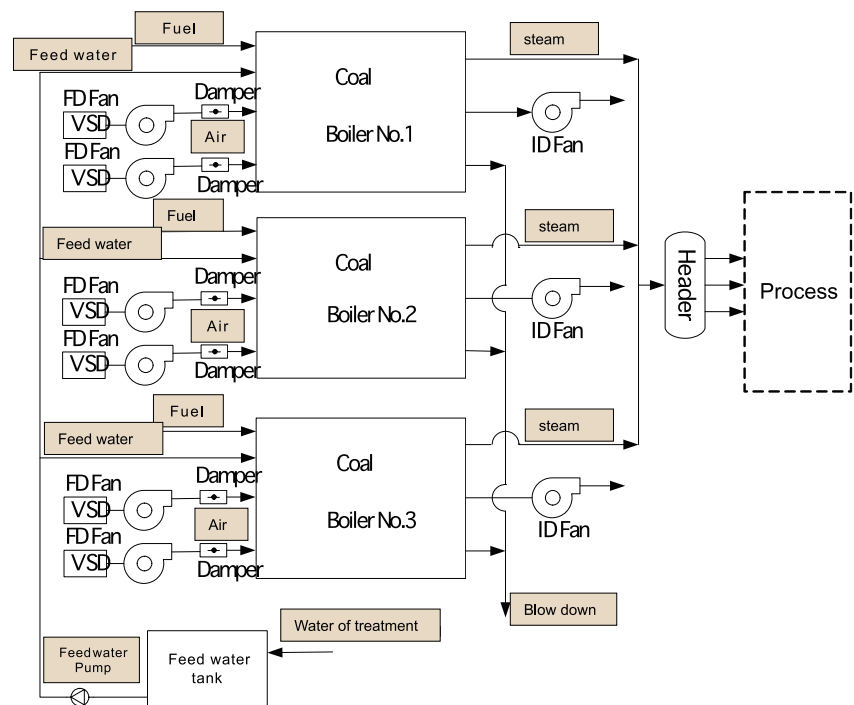


Fig.1 Boiler Flow Chart Diagram



## Before

The inlet air flow for Coal Fired Boilers were adjust by Dampers (Manual ) of Force Draft Fan (FDF) total 6 units 26 kW each.

Fig.2



Fig.3



## After

Installing VSD at FDF to adjust inlet are flow according to the working load. The control frequency was 35 – 40 Hz instead of 50 Hz. The electric power was 22 kW each.

Fig.4



## Financial Analysis

Energy Saving = 462,000 Baht/Year

Investment Cost = 450, 000 Baht

Payback Period = 0.97 Year

## Challenges in Promoting the introduction (Barriers)

- 1) Investment (Budget)
- 2) Knowledge and Technology
- 3) Regulation and Operation
- 4) Awareness

## Needs for introduction on Energy Conservation Equipment

- 1) Enhance the ENCON equipments knowledge to person who Responsible Energy (PRE)
- 2) Investment Grants for ENCON equipments
- 3) Keep the ENCON Law strictly
- 4) Dissemination of the Best Practice to more end users