



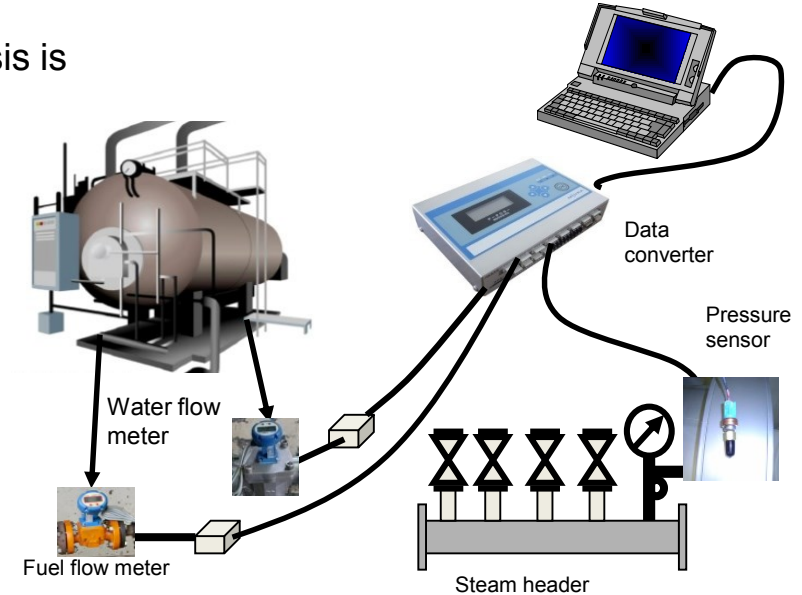
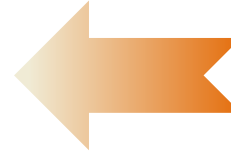
# Energy Saving Diagnosis for Boiler Facility

MIURA CO.,LTD.

Visualization is the first step to energy saving and higher efficiency



Energy saving diagnosis is needed!



## Features

- Diagrammatizing and analyzing data such as the boiler daily report, etc.
- Measuring the actually-used steam amount, collecting and analyzing detailed data, using unique measuring instruments
- Making improvement suggestions by organizing the trend and issues of the facility from the data

## Process outline

- 1<sup>st</sup> step: Considering improvements by macro-visualizing seasonal fluctuation from the boiler daily report
- 2<sup>nd</sup> step: Considering optimal boiler facility by micro-visualizing peak loads from the actually-used steam amount
- Simulations and suggestions on efficiency improvements and operation conditions regarding replacement with highly-efficient once-through boilers

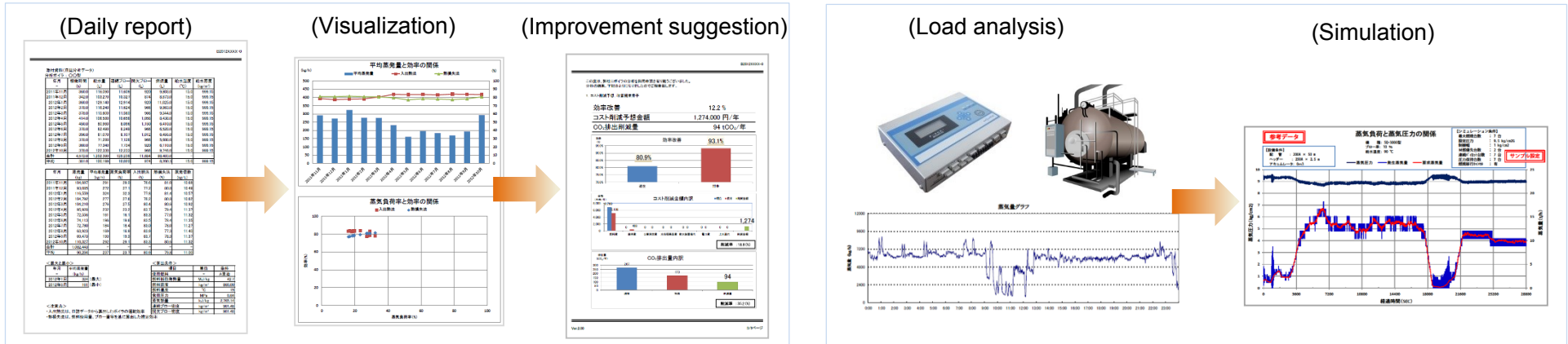
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# Example of Diagnosis Data



## Diagnosis Cases

- We have analyzed more than 30,000 cases, as many as 60,000 boilers in Japan.
- The same kind of analysis and great energy saving using the once-through boiler system can be performed even abroad.





Conventional flue and smoke tube boiler



Once-through boilers of multiple installation

Anticipated energy saving effect: 10 to 20% or more

(Example of improvement)

	BEFORE	AFTER	
EQUIPMENT			
BOILER TYPE	Water tube boiler	Small once-through boiler	
BOILER CAPACITY	3.6 ton/h	2 ton/h	
NUMBER OF BOILER	2	3	
FUEL	Natural gas	Natural gas	
EFFICIENCY	79.6 %	96.9 %	22% UP
CO <sub>2</sub> emissions	1,014 ton/year	871 ton/year	14% DOWN