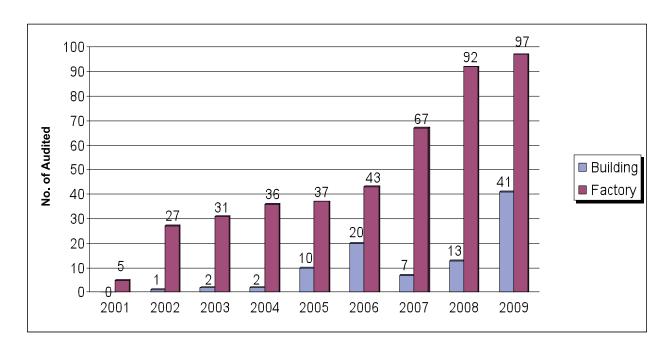


## Number of energy audit statistics of ECC-HCM 2009



### **Best Practice on EE&C of Factory**

- SAIGON EXPORT FOODSTUFFS AND AGRICULTURAL PRODUCTS JSC.
- Number of staffs: 60 persons
- Main product: Different kinds of food
- Designed Capacity : 10,000 tons/day
- Energy Consumption : Electricity 12,578 kWh/day
- Annual energy costs:  $\sim 4.1$  Billion VND ( $\sim 227,000$  USD)
- Operational time in a year : 5490 hours/year



	Options	Energy Saving (TOE/ year)	CO2 reduction (ton/year)	Notice
1	Using energy saving Fluorescent lamps (T5)	6.3	47	Electricity
2	Replaced <b>cold storage system</b> 100 metric tons by new system	7.2	54	Electricity
3	Using high-performance motor for fan	0.4	3	Electricity
4	Adjusted appropriate air excess rates for boiler	2	15	Diesel oil
5	Wrapping insulation for stream sterilization room	0.5	4	Diesel oil
6	Reducing load of air conditioner room	1.1	8	Electricity
Total		17.5	131	



#### Best practice on EE&C of building

- International Commercial Centre Joint Venture Company, IBC Diamond Plaza.
- Commercial and services, shopping, entertainment and offices and rental apartments.
- Building area: 6,146m2 (Total area: 57,144m2)
- Energy Consumption : Electricity 12,417,815 kWh/year
- Age of building: 7 years
- Number of storey: 19
- Total number of occupants: 2400 people



Using sun control film

#### EE&C measures of building

- Good natural **ventilation**, **lighting devices** are 36W, tubular fluorescent lamps 36W, electronic ballasts 3.5W, compact fluorescent lamps 10W and 20W, etc.
- Overall heat transfer through building envelope: Walls 32.81 W/m2, Ceiling 8.84 W/m2
- Building indoor environment: Temperature: 25°C, Relative humidity: 60%.
- Energy Efficiency Index: air-conditioned area: 112.34 kWh/m2/year
- Lighting load: 7.8 W/m2 (terrace roof area)
- Energy consumption: 64.41 kWh/m2/year
- Annual energy saving: 1,997,280 kWh



Energy Manager system at control center room

# Energy conservation equipment and trend of industrial

- More interested in the use of renewable energy and alternative energy forms
- Traditional industry needs technological innovation to reduce emissions and enhance energy efficiency (such as brick, seafood processing, textile ...)
- The trend of improving old production line/equipment is most important in recent time.
- Some equipment: compact fluorescent lamps, solar water heater, inverter, energy measurement/manager devices, sensors for

#### automatic control ...





