



# Building Automation Systems

## ASSETS



- 25 years in conventional control
- 13 years in building automation
- Interdisciplinary expertise in Control
- A team in company for a long term
- 16 engineers
- 25 Field Technicians

## UNIQUE FEATURES



The unique group in Turkey specialized in Building Automation at an HVAC company  
Experience in total system sales by combining HVAC and Building Automation  
Also experiences in some related fields such as industrial control, Time and Security control, computers etc..

### **SUCSESS STORY**

- The biggest Projects in Turkey
- 110.000 I/O points
- Business Centers, Hotels, Hospitals, Airports, Universities, Industrial Facilities..
- 92 projects in total at home and abroad
- The first company in Turkey that accomplished all engineering and commissioning jobs w/o any foreign help



### **WHAT DO DECISION MAKERS CARE?**

- Reputation
- State of the art of the Technology
- Price and delivery
- Local Support (Engineering)
- Positive References
- Solutions to specific needs
- Expandability
- Total solution from one source

### **WHAT DO OPERATORS CARE?**

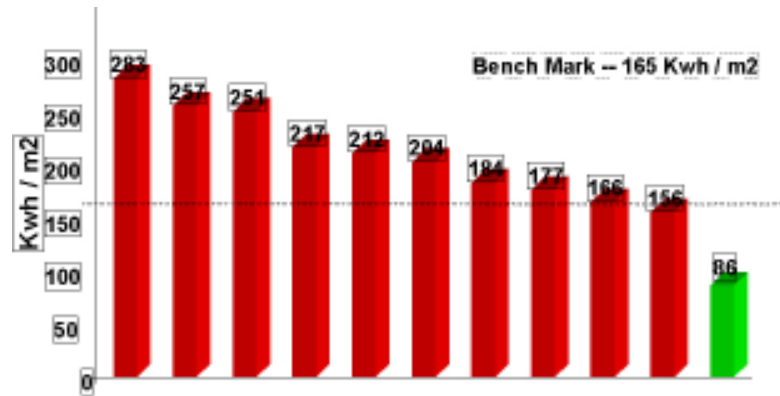
- User Friendliness
- Energy consumption
- Local Support (Service)
- Maintenance cost
- Operating Cost
- Expandability
- Customer Oriented approach
- Uninterrupted Service

# swissôtel ISTANBUL

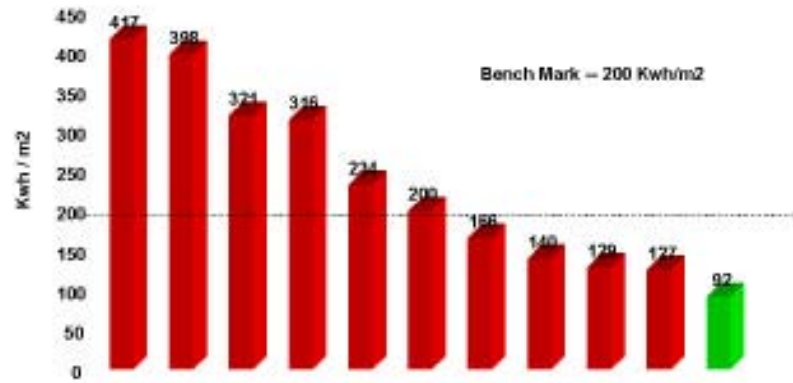
- 5 Star Hotel
- 6.000 I/O points
- 950 room Controllers
- Complex Algorithms
- #1 in energy saving in Istanbul
- #1 in energy saving among 20 swissair facilities in the world



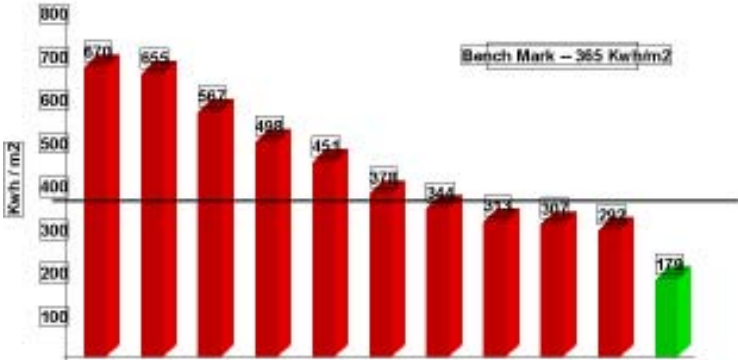
## Power Consumption



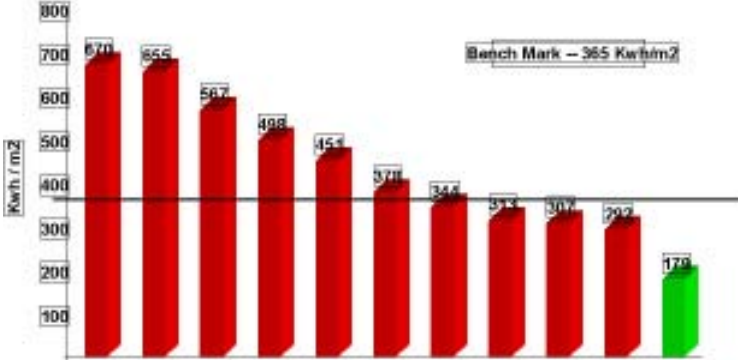
## Fuel Consumption



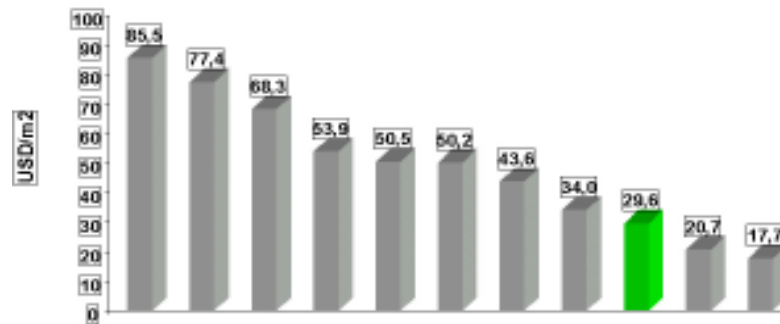
Total Energy Consumption



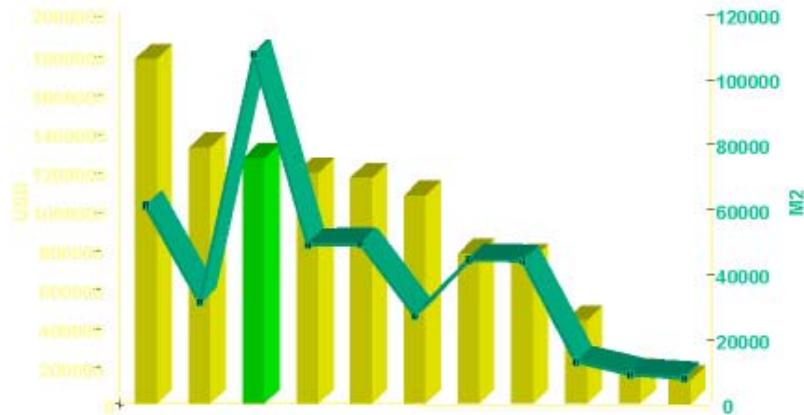
Water Consumption



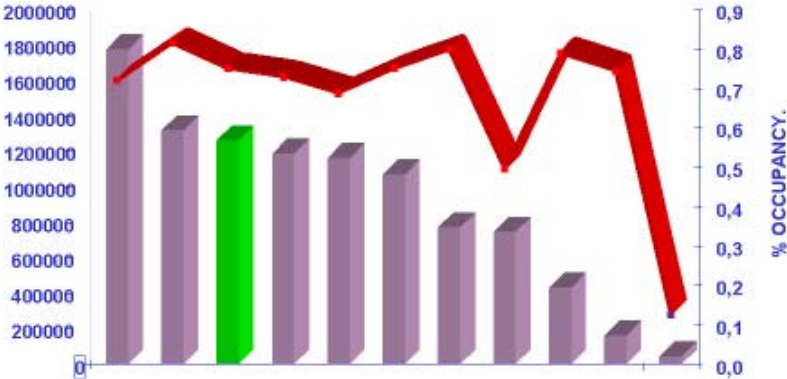
Personnel Cost



Total Energy Cost  
Total Controlled Area



Total Energy Cost



# SABANCI HOLDING

- Headquarter of the biggest group in Turkey
- 2.500 people
- 7.000 I/O points
- Two towers, each of 35 floors
- AHUs, Chillers, Cooling Towers, Heating, VAV control....



## Ashgabad Airport



- 1400 I/O points
- A Lockheed Project
- US, English, Russian, Turkish, Turkmen groups involved

## **İNÖNÜ UNIVERCITY** **Turgut Özal Medical Center**



- 7.595 I/O points
- One of the most modern hospitals in Turkey and the territory as well

## Elkat Copper Factory- Moscow



- 400 I/O points
- Our First Project in Russia

## SABANCI UNIVERCITY- İSTANBUL

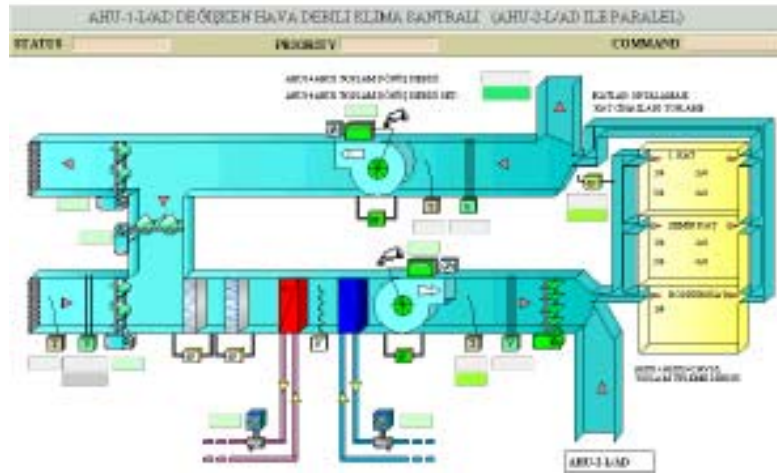


- 4.403 I/O points (not complete yet)
- Carrier Chillers
- Gateway To Carrier Chillers
- A good example of Combined System Sales

## REFERENCES



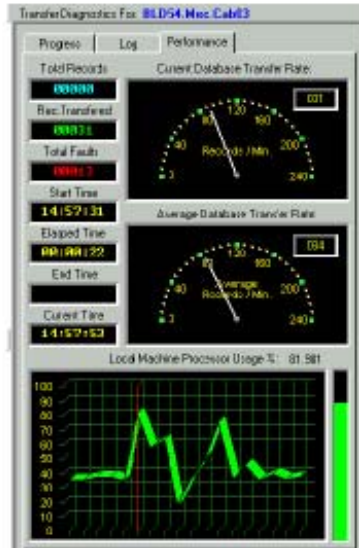
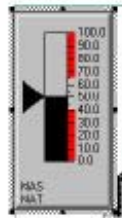
# Screen Pictures



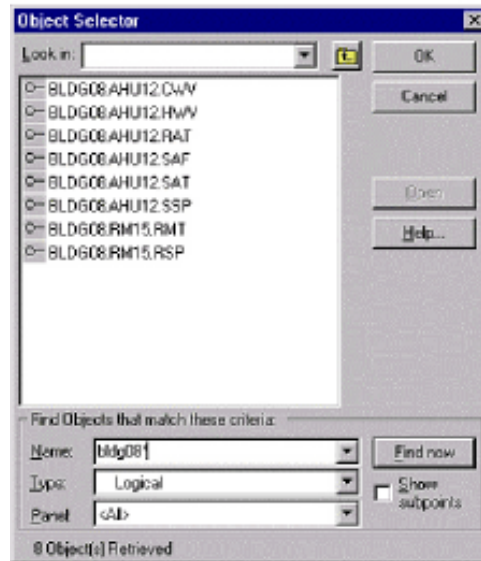


- Plant Point Commanding
- Not only simple On/Off
- All options in the list box

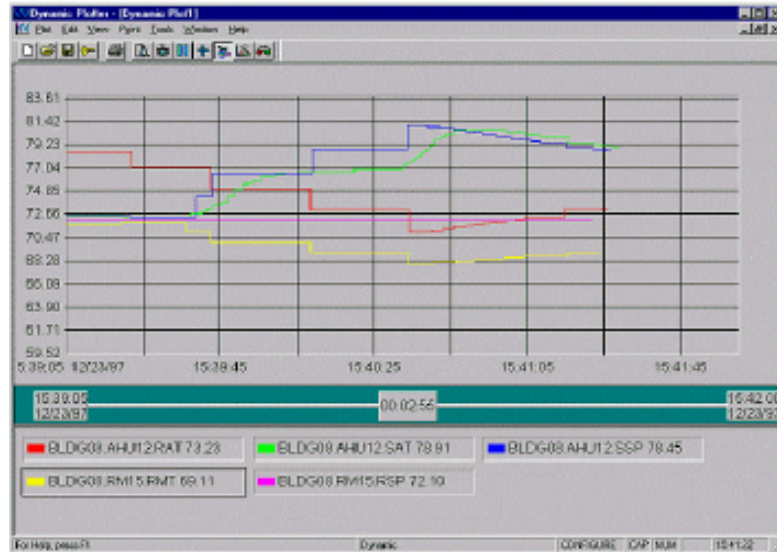
# Microsoft ActiveX



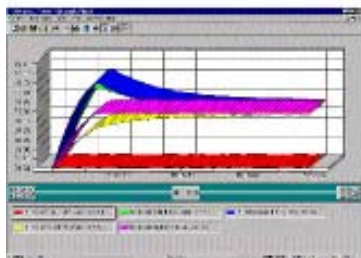
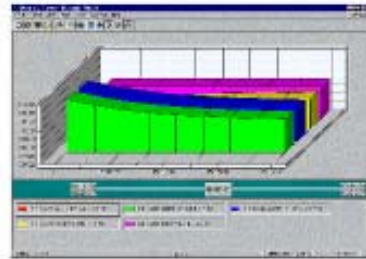
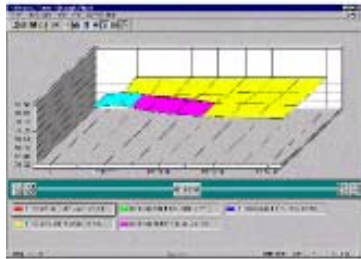
## CREATING DYNAMIC GRAPHICS



## PRESENTATION OF DYNAMICGRAPHICS

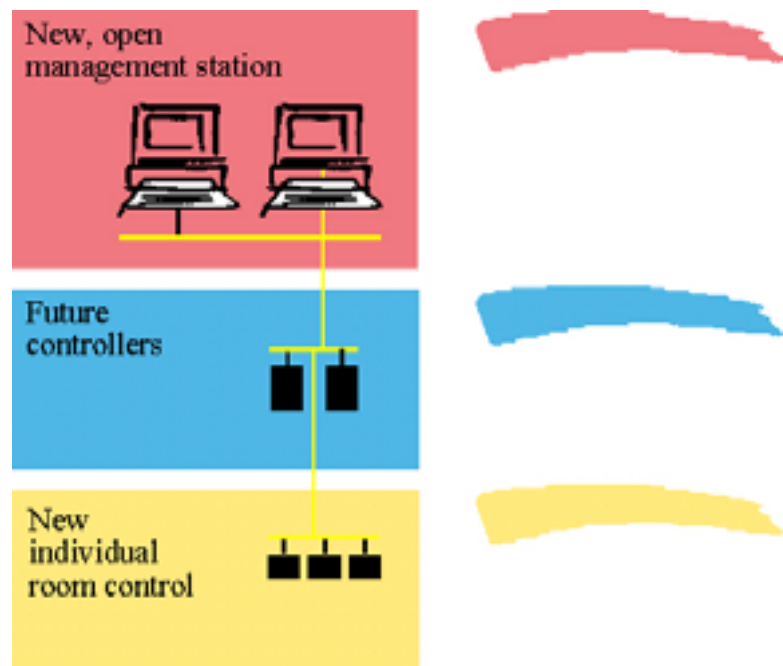


## PRESENTATION OF DYNAMICGRAPHICS



## ENERGY MANAGMENT

- 3-4 MB Memory
- Data collected in the substation
- 115.2 KiloBaud , High Speed
- Scheduled or Event oriented collection
- Export to EXCEL or any other office product

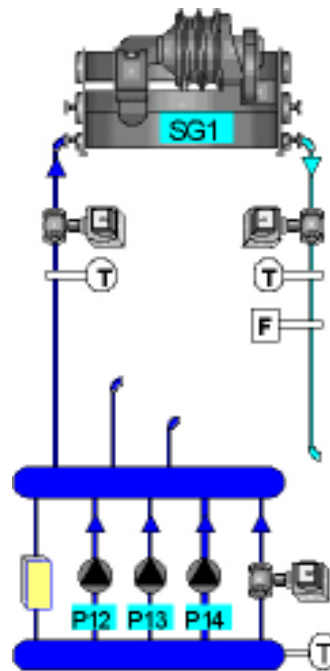


## AIR HANDLING UNITS

- Cascade Regulator
- Boost Heating
- Night Purging
- Priority Logic

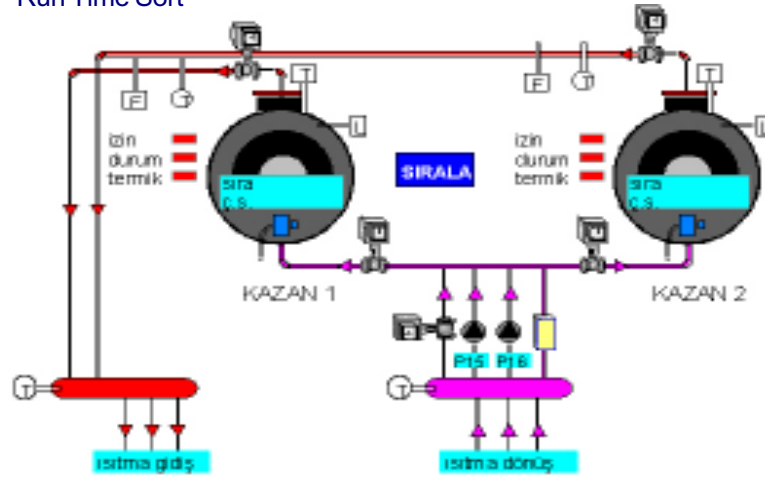
## CHILLERS AND COOLING TOWERS

- Chilled Water Reset
- Enabling on Demand
- Run Time Sort
- Step Regulator



## HEATING SYSTEM

- Hot water reset
- Heating on demand
- Run Time Sort



## **AUTOMATION**

- Out
- Autm
- Autumn
- Autmat

**WE ALWAYS AIM TO WRITE**