

# Modernization of shopping center Mall of Sofia

## Building Management System

- 3598 Physical Data Points.
- 1128 Integration Data Points.
- Cooling Center Shopping Center - management and monitoring of four chillers and ten circulating pumps.
- Cooling Center Tower - management and monitoring of one chiller, one dry cooler and five circulating pumps.
- Cooling Center Cinemas - management and monitoring of two chillers, one dry cooler and seven circulating pumps.
- Heating Center - control and monitoring of fifteen circulating pumps.
- Cooling Towers – control and monitoring.
- Air Handling Units – management and monitoring of thirty AHUs.
- Exhaust ventilations – control and monitoring.
- Monitoring the condition of compressors, heating pipes and ramp, fire valves, sprinkler pumps, drainage pumps, drinking water installation, fuses, transformers, diesel generators, overpressure fans and exhaust fans. Lighting automation.
- Air curtains – control and monitoring.
- Integration of power meters, power analyzers and water meters.
- Generate daily and monthly reports.

## Project details

### Duration

2021 - 2022

### Scope of activities

- Delivery and installation of:
  - Field equipment
  - DDC controllers and modules
  - BMS operator station
- Start up and setup, user training and documentation
- Development of an algorithm for monitoring devices (water meters, electricity meters and gas meters)

