



ENVIRONMENTALLY CONSCIOUS
ENERGY EFFICIENT
EASY TO MAINTAIN
SAFE TO USE
COMFORTABLE



ENERGY OPTIMIZATION OF LIGHT
 > Stateofheart LED technology
 > Consideration of ecological factors
 > Maximum use of daylight
 > Avoidance of light pollution "full cut off" lamps
 > Control for



SUNSCREEN
 > Optimized control considering energy optimization and facility utilization
 > Control for



RAINWATER UTILIZATION
 > for watering the garden

REFRIGERATION
 Application of passive and hybrid cooling systems
 > Minimization of refrigerant application or application of climatefriendly refrigerants
 > Prevention of overheating in summer
 > Panel cooling systems
 > Cooling from heat (absorber cooling units)
 > Reversible heat pumps
 > Free-cooling



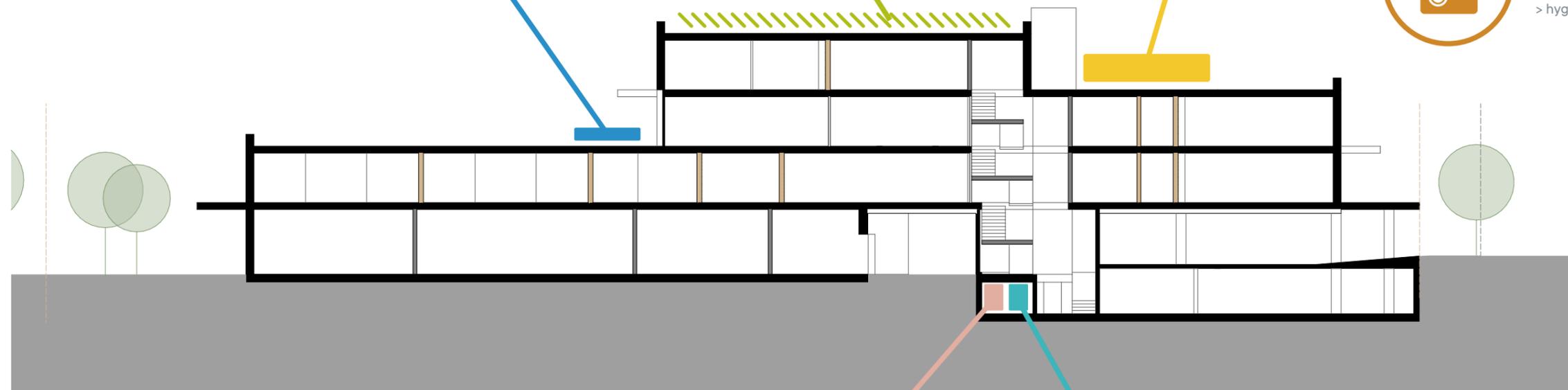
PV-FACILITIES
 Energy generation for general power consumption . heating . charging stations . pumps . lifts . ventilation . cooling



VENTILATION
 > Ventilation facilities with highly efficient heat and moisture recovery systems with heat recovery levels > 90%
 > Intelligent living space ventilation with CO2-measurement
 > Combinations with cooling systems (e.g. adiabatic discharge air cooling, ventilation at night)
 > Tailored zone regulations



LOCAL HOT WATER GENERATION
 > by means of fresh water stations
 > hygienically uncritical hot water



ENERGY MONITORING
 (Safety & building management)
 > Data acquisition, optimization and analysis of all plant components for electricied plant management
 > Use of bus-capable energy meters
 > Local room control units in the flats

PLANT ROOM
 High and low voltage current



PLANT ROOM
 Heat recovery/waste heat utilization



CHARGING STATION
 for bicycles & cars



ENERGY GENERATION BY MATERIALS HANDLING TECHNOLOGY
 Energy efficiency class A and energy generation with regenerative drive system



HEAT DISTRIBUTION
 > Use of lowtemperature heating with panel heating systems (underfloor heating, concrete core activation)
 > Activation of thermal storage mass



HEAT SUPPLY
 > via renewable energy
 > Heat pumps (geothermal probes, groundwater, air)
 > District heating (biomass)
 > Solar heat