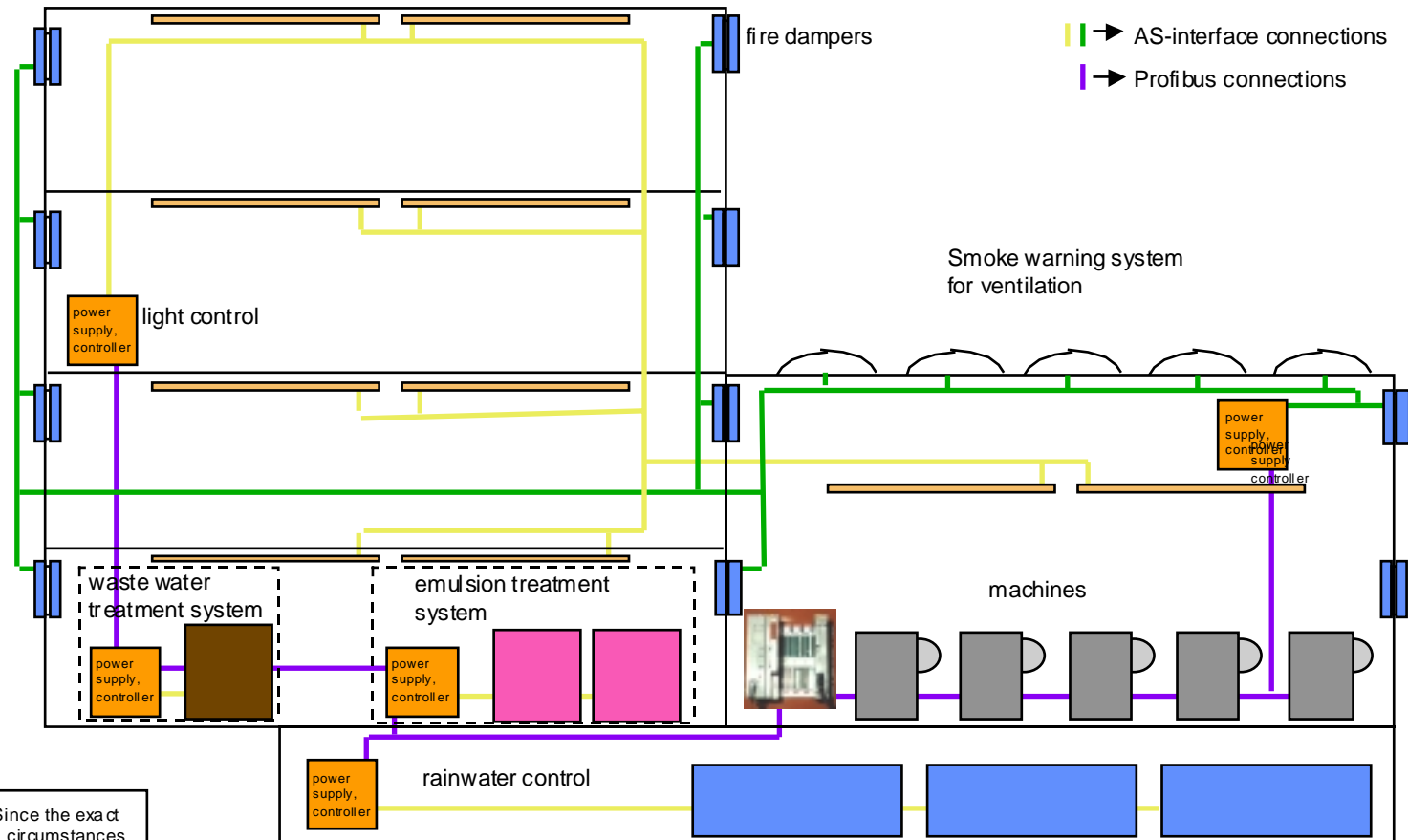
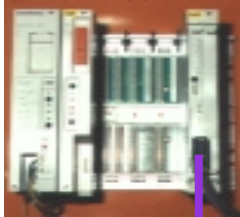


Sensible networking of island solutions

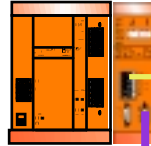


This is only a schematic layout. Since the exact dimensions of the plant and local circumstances are not sufficiently known, the installation must be adapted on site.

Sensible networking of island solutions



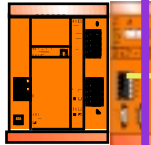
All controllers are networked, thus all the information of the islands is also available to the central control system. Via the central programming the islands can now be controlled in such a way that a sensible energy management is achieved.



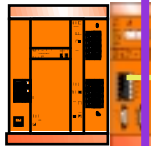
Fire dampers. Connected with AS-i using fewer wires. The variable topology of AS-i enables adaptation to the local circumstances of the building. The controller is networked with the other islands, for example, via Profibus DP.



Light control. Connected with AS-i using fewer wires. Efficient control of lighting according to utilisation and requirements. The controller is networked with the other islands, for example, via Profibus DP.



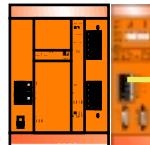
Smoke warning system for the control of dome-shaped skylights. AS-i can directly trigger the motors. With the module inputs and outputs positions can be monitored. The controller is networked with the other islands, for example, via Profibus DP.



Biological waste water treatment. To process heavy metals and other toxic substances the waste water is treated using a bioreactor. Substantial cost reduction compared to conventional methods.



Rainwater utilisation system. To keep the cost for the cooling medium as low as possible the rainwater is partly treated and fully utilised. The controller is networked with the other islands, for example, via Profibus DP.



Emulsion treatment. The controller works like a plc and controls all functions of an energy saving emulsion treatment system. The controller is connected to the network.

This is only a schematic layout. Since the exact dimensions of the plant and local circumstances are not sufficiently known, the installation must be adapted on site.



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essen
Project Service and
Environmental Technology

Project: Sensible networking of
island solutions

Plan:



System solution with
AS-interface

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