



DESIGO PLUG AND PLAY AUTOMATION

Use Case

Retrofit of radiator heating in a school building

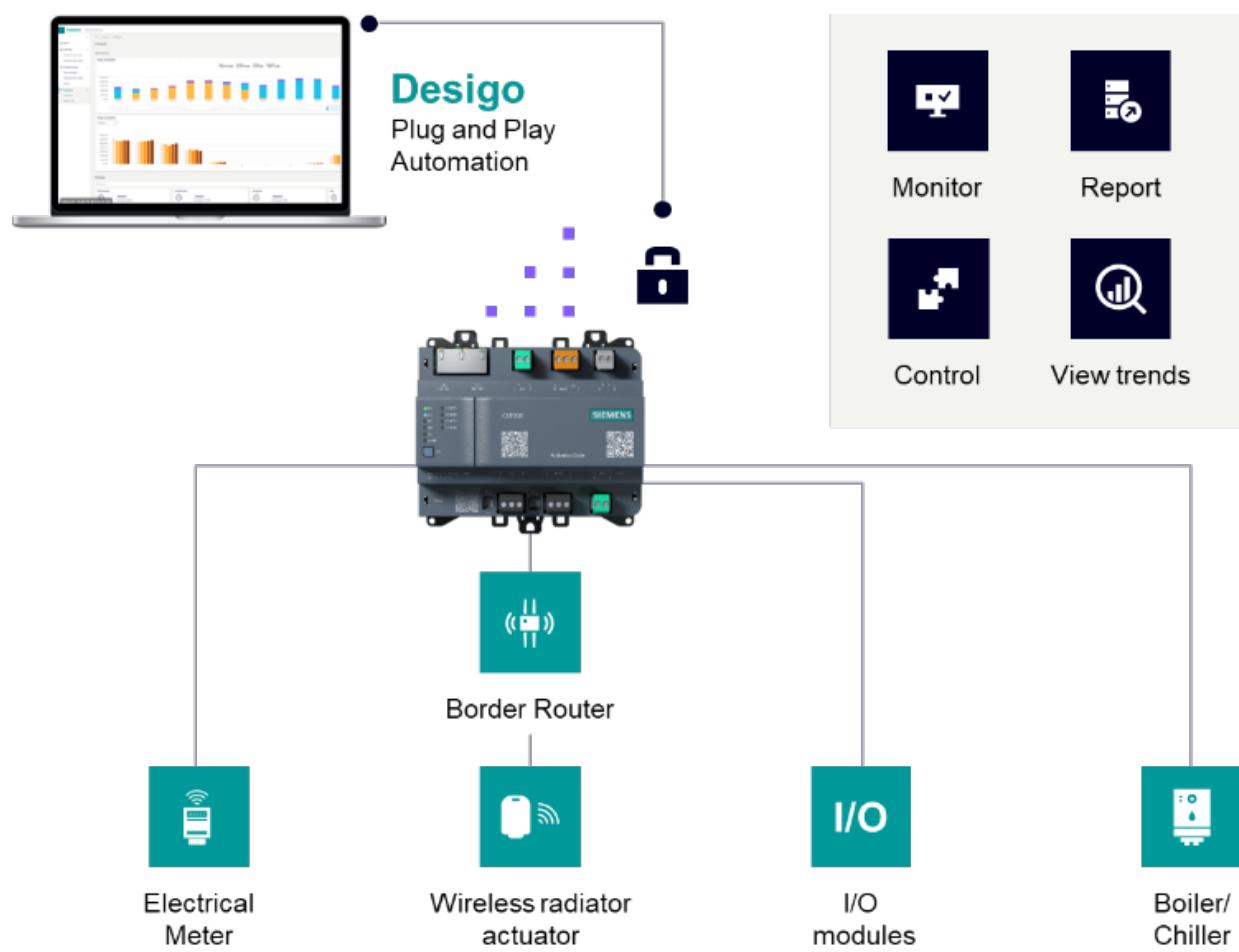
SIEMENS

Implementing an easy and affordable solution to lower energy usage while meeting regulations

A medium-sized school seeks an energy-efficient retrofit for its outdated heating system, where manual radiator valves led to high energy costs and uneven classroom temperatures. They need a non-intrusive solution that would **cut energy costs and consumption without disrupting academic operations**.

Pain points

- Over-consumption of energy
- Lack of real-time data
- Difficulty tracking energy consumption and costs
- Discomfort of students and staff due to inconsistent room temperatures



Retrofit of radiator heating in a school building

Benefits



Energy Efficiency: by heating rooms to the required temperature and reducing heating in unoccupied spaces, the school cuts its energy consumption.



Cost Savings: without a high upfront investment and no wiring costs, the improved efficiency translates into substantial cost savings on energy bills.



Comfort: consistent and optimal classroom temperatures enhance the learning environment, leading to improved experience.



Scalability: the system's flexibility allowed for future expansions, such as incorporating additional IoT devices or extending to other areas of the school.