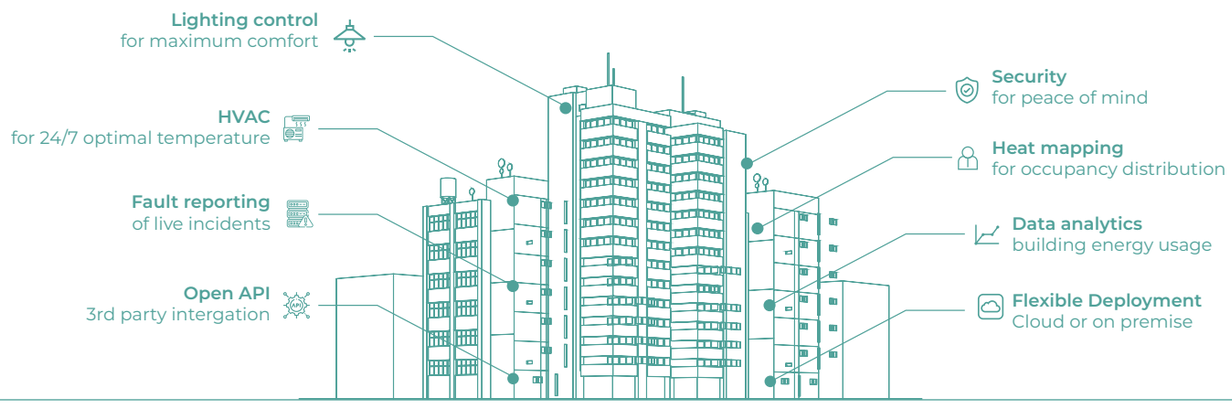
Smart Buildings for a **Sustainable Future**

Integrated Systems

Alrux8

Sustainable Buildings of Tomorrow



DRIVEN BY AI ENGINE **AND MACHINE LEARNING**

Our system is designed to provide an overview of the building across Lighting control, HVAC, Fault reporting, Open API, Security, Heat mapping, Data analytics with Cloud or on premise deployment options. Benefits of the system includes energy optimization, lower operational costs and create a productive work environment for facility teams and improves well being of the occupants.

Design to provide you with:

DESIGN TO **OPTIMISE ANY SPACE**

Energy Managment

Lighting and HVAC IoT sensors automatically detects occupancy usage in real time and improve energy savings.

Cost Effective

Wireless bluetooth mesh technology lowers installation costs, and provide ease of deployment and maintenance.

Enhanced Well-Being

Improves space experience by optimizing lighting and temperature comfort base on occupant usage.

Improve Productivity

Constant tracking of real-time data to provide facility team fault reporting through remote notification.

BMS Compatibility

Able to interface with existing building BMS and function concurrently to provide actionable insights.

Flexible Deployment

Plug and play system provide flexibility to deploy on the cloud or on premise servers.

Open API

Able to intergrate with 3rd party systems such as security, access and visitor management systems.

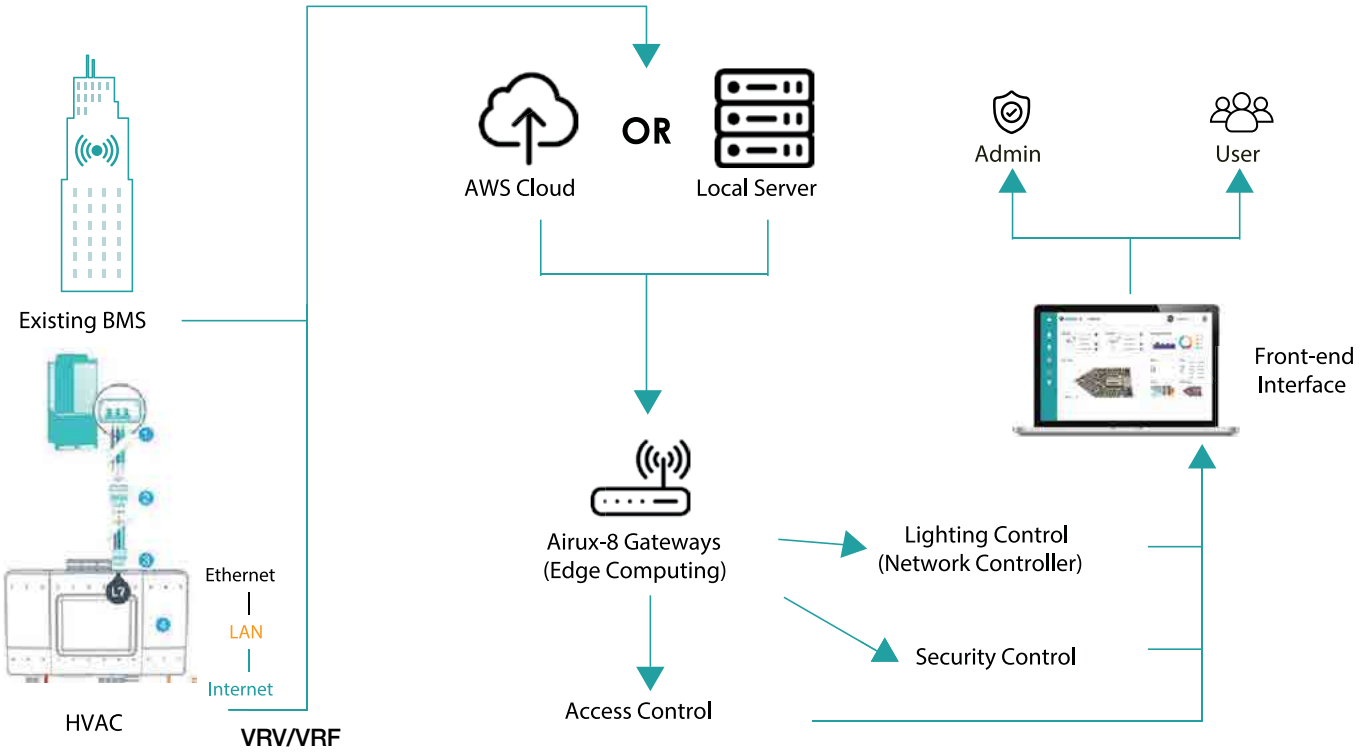
Reduce Operational Cost

AI engine optimises energy efficiency, increases energy savings and reduce manpower costs.

Data Analytics

Heat mapping data history enable facility teams to improve space management and occupant experience.

SYSTEM **TECHNOLOGY ARCHITECTURE**

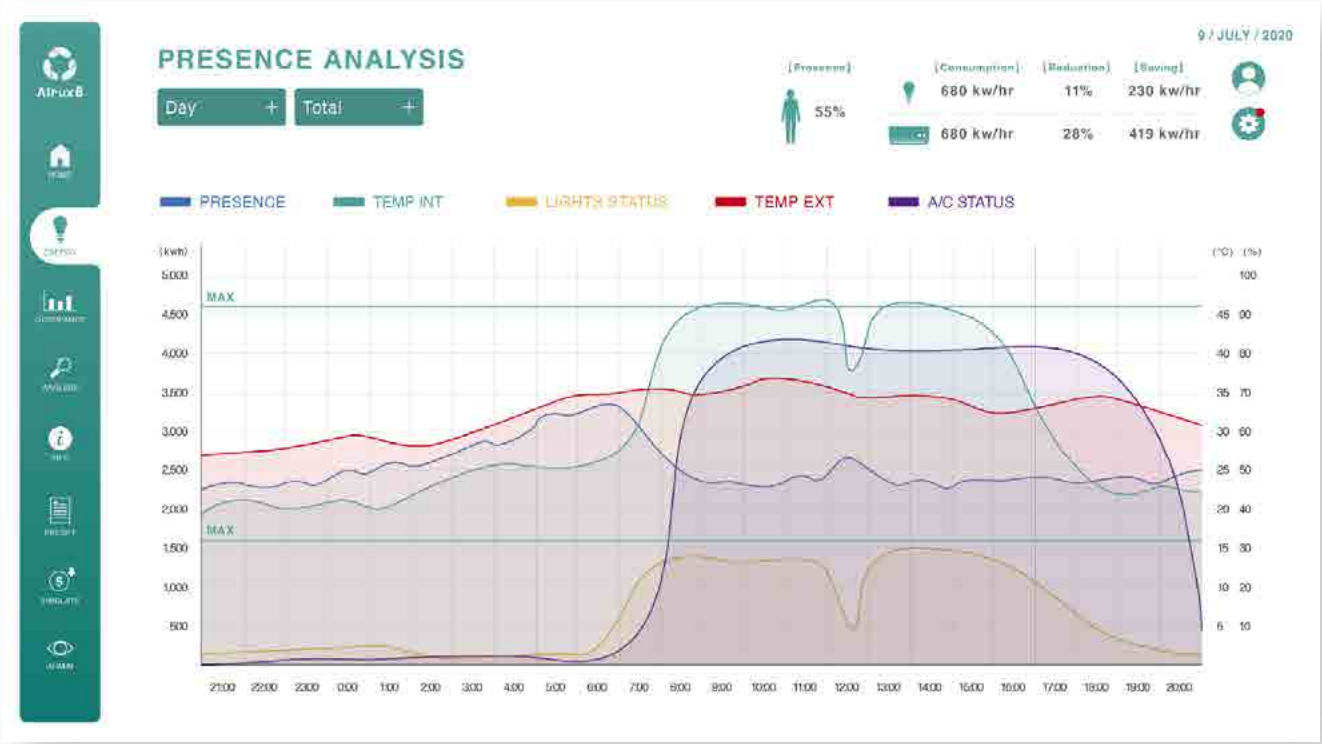


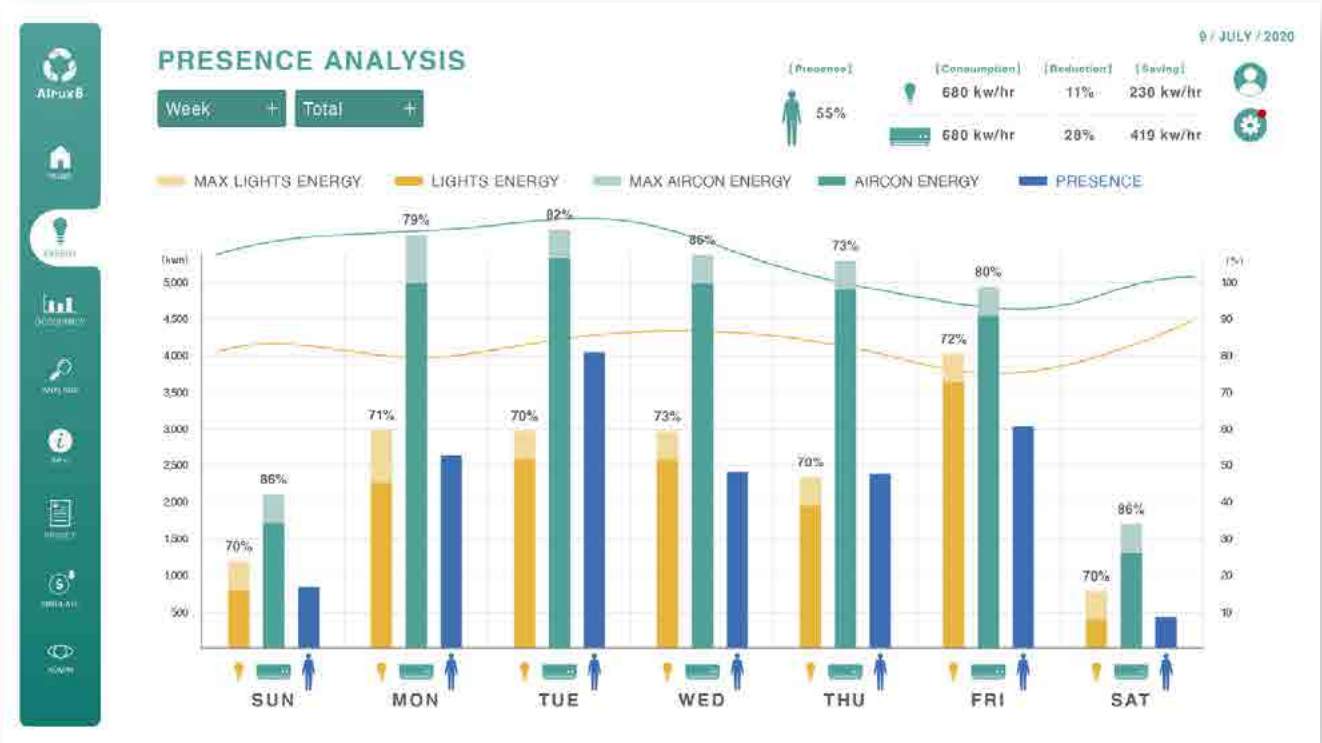
OUR SYSTEM **AT A GLANCE**

Floor	Lamp(kW/hr)			Aircon(kW/hr)			Presence	Alerts		
	Max	Actual	Save / %	Max	Actual	Save / %	Save / %	Lamp	Aircon	Presence
Total	800	400	400 / 50%	5000	4000	1000 / 20%	76%	5	2	1
3rd Floor	300	200	100 / 33%	3000	2000	1000 / 33%	90%	1	0	1
2rd Floor	200	100	100 / 50%	1000	500	500 / 50%	55%	0	2	0
1rd Floor	200	70	130 / 65%	1000	800	200 / 20%	82%	1	0	0
Carpark	100	30	70 / 70%	0	0	0 / 0%	60%	3	0	0

Energy Usage

Lighting and HVAC energy consumption is tabulated and compiled into weekly report, with detailed breakdown to aid in savings





Data Overview

Comprehensive day to week data overview of energy consumption levels.

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