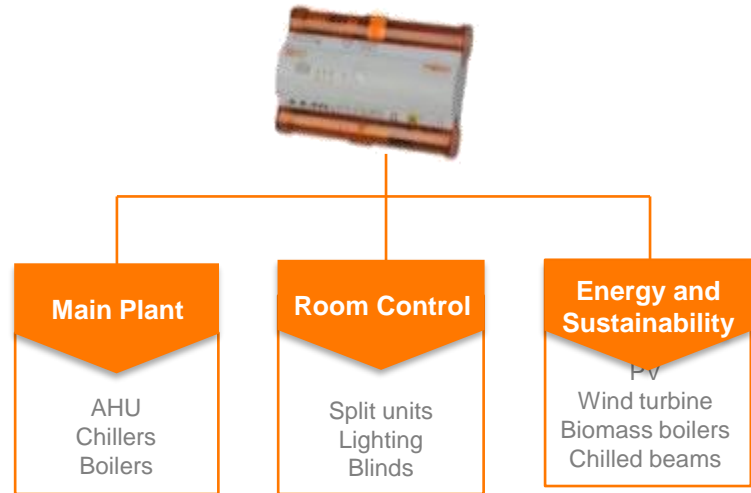
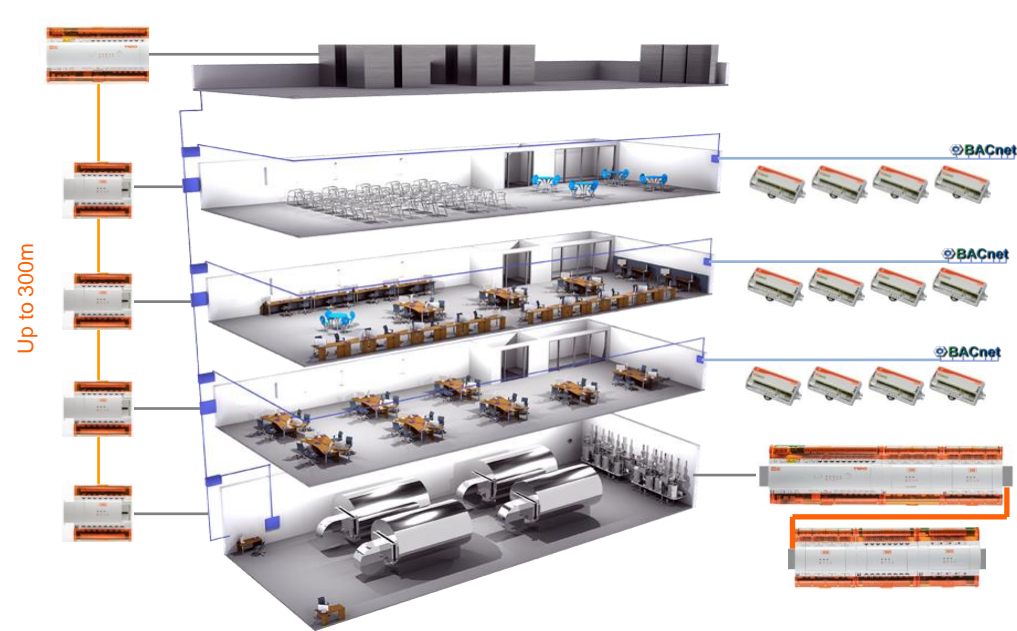


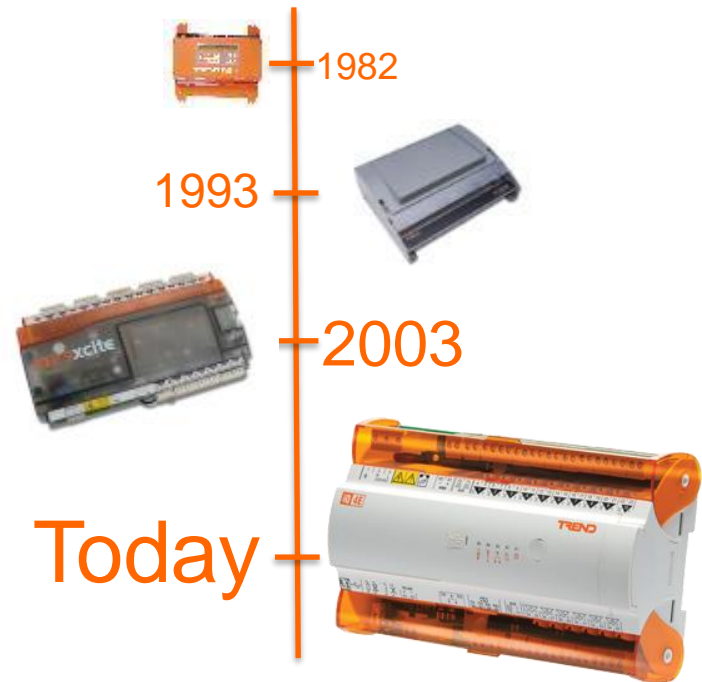
Trend Control Systems

Applications



Secure Investment

- Full system backward compatibility
- A single supervisor for all Trend systems, old and new
- Backward compatibility for future control platforms, including IQ[®]4
- Protecting your investment in time and money



IQ4 Controller

IQ4NC Node Controller

Supervisor Protocol

TONN

IQ4XNC Controller



iQ VISION



MBUS
MODbus
KNX



- Protocol options
- BACnet, XML

- MSTP/Ethernet BACnet devices
- Trend Native BACnet IQ[®]eco

- Trend BACnet
- via TONN: BACnet, KNX, LON, MODBus, MBus, oBIX, SNMP
- SQL Database CSV files

- Open Protocols
- Trend, BACnet, KNX, LON, MODBus, MBus, oBIX, SNMP

- Interfacing Flexible interfacing with 3rd party systems via MODBus, MBus
- Enhanced Custom Language (TCL)
- Standard IQ configuration modules



Networks, Protocols and BEMS





New Products

- ▶ IQECO & IQ[®]4
- ▶ IQ[®]VISION
- ▶ RD/RS/RV/IQVIEW8 Wallbus Modules

IQ[®]4E

Reduced Panel Size

With its small footprint, IQ[®]4E can be placed in smaller control panels, lending itself to confined space applications

Flexible I/O Configuration

With the ability to upgrade between its numerous point variants, applications of all sizes can have a better matched control solution, reducing unused I/O and delivering significant cost savings

Better Performance

IQ[®]4E's superior processing performance enables even the most complex HVAC applications to be controlled

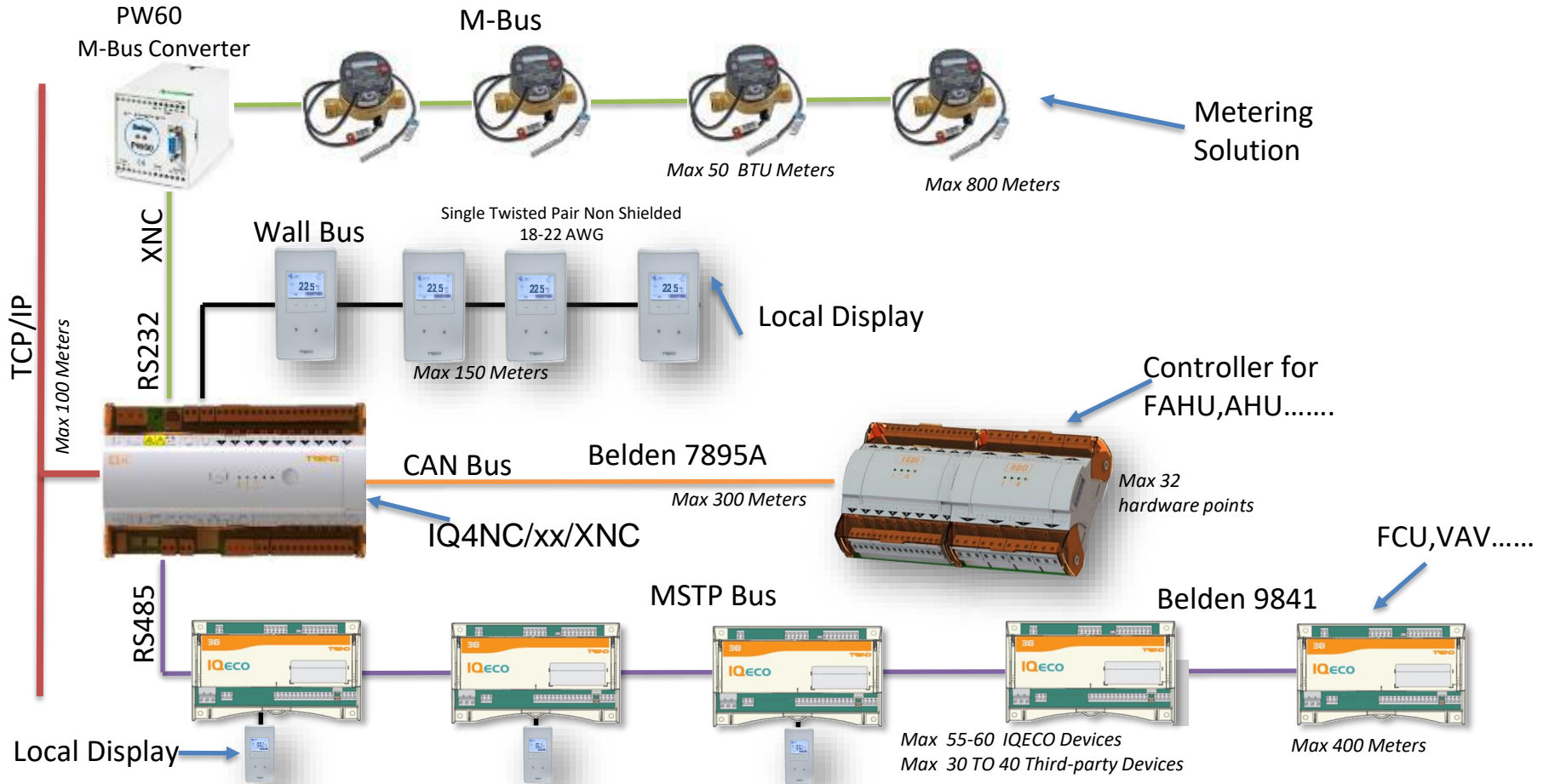
Longer BUS and Distributed I/O

The IQ[®]4E's improved bus capabilities allow for a length of up to 300m and the potential for 30 I/O modules to be configured. This offers the I/O's more flexibility around the plant room

Easier to Engineer

With new strategy modules and soft addressing, IQ[®]4E reduces the amount of time spent on each project. This reduces costs, as well as making better use of valuable engineering time





<https://www.trendcontrols.com/en-GB/products/Pages/default.aspx>

Points Calculator

DO	DI	AO	AI	Spare I/O %	Power	
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input style="border: 1px solid #ccc;" type="text" value="230Vac"/>	<input type="button" value="calculate"/> <input type="button" value="reset"/>
Summary						

IQ4E PointsCalc App

The IQ4E PointsCalc App is available on Android, Apple and Windows app stores.

This app will help you select the correct configuration of IQ4E controllers and I/O modules for your application. Simply input the required number of points next to the I/O type, add the spare capacity and press calculate. It will then provide you with the list of products in the correct quantity to suit your application and it will present you with instant access to the datasheets of your chosen products. It will also convert this list into a convenient email for you to send to an inbox of your choice. Please click on the App store button below which best suits your device and download:










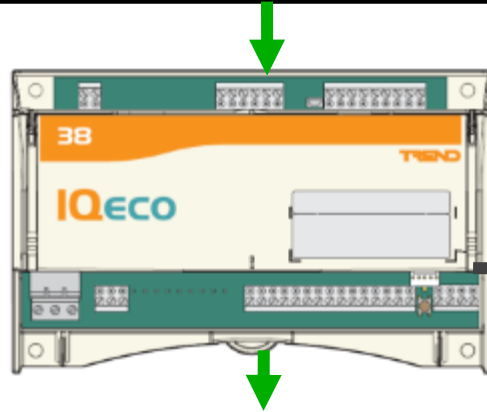
IQeco




Input/Outputs	IQeco 31	IQeco 35	IQeco 38	IQeco VAV	IQeco VAV PA
Universal input	1	3	4	3	3
Digital input	1	2	2		
Thermistor input	2	3	3	1	1
Pressure Sensor Input				1	1
Analogue Output	1	1	4	2	2
Relay Output	1	4	1	2	2
Digital Output	4	4	4	6	4
Actuator					1

Inputs






 UI Light Level Sensor	 UI CO2 Sensor	 TI Blind Control	 DI PIR Detector	 DI Window Contact	 TI Lighting dimmer	 DI Light switch
---	--	---	---	--	---	--



RD Display Option

	<p>Room Temperature/RH/ CO2</p> <p>Room Setpoint</p>
---	--

Outputs

Heating DO Raise/ Lower	Cooling DO Raise/ Lower	FAN AO 	Blinds AO 	Dimming control AO 	Dimming control AO 	Occupancy Signal Relay CO 
Trend - AL0206-24		Providing I/O potential for HVAC, Blind & Lighting Control.				





RD/RS/RV Room Wallbus Modules

RS ROOM SENSOR

- Monitors temperature, humidity and CO₂ levels.
- Simple system design and connectivity
- Interchangeable with wallbus sensor family and wallbus room displays
- Two wire polarity-free connection for power/data
- Two part surface mounting installation allowing for a smart upgrade solution



RD ROOM DISPLAY

- Localised control
- User interaction via simple to use buttons
- Clear backlit monochrome screen
- Standardised icon set
- Touch sensitive keypad



RV ROOM VIEW

- High definition colour touch screen LCD display
- Backdrop colour options to match room decor
- Portrait or landscape orientation
- Setpoint, fan speed and occupancy override controls
- Display of CO₂ concentration, outside air temperature and humidity
- Clear icon and graphics



Temperature
Relative humidity
CO₂ display only
OA
Colour
Touch screen
SD Card

FAN
setpoint
Occupancy
Override
Lighting
Heating
Blinds
Window

RV



Features

- ✓ Color graphics pages (schematic)
- ✓ Viewing of inputs, outputs, directories, alarms, and plots
- ✓ Adjustment of knobs, switches, and time zones.
- ✓ Graphing of logged data
- ✓ Configurable users to ensure system security
- ✓ Communicates with all controllers on network (not autodialed networks)
- ✓ DHCP enabled
- ✓ Ethernet, current loop LAN, or RS232 network connection
- ✓ Panel, surface, or embedded mounting
- ✓ Color touch screen LCD display



IQVIEW8





iQ VISION



2017



IQVISION 2.1

TCP/IP

IQ4NC/12/BAC/230

IQ4NC/32/XNC/BAC/230

IQ4E/96/XNC/BAC/230

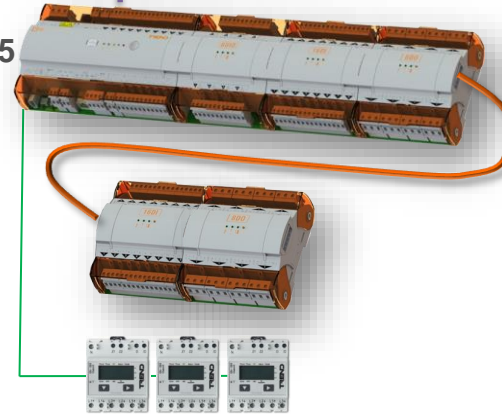
2016

TONN8

2012



2015



IQECO

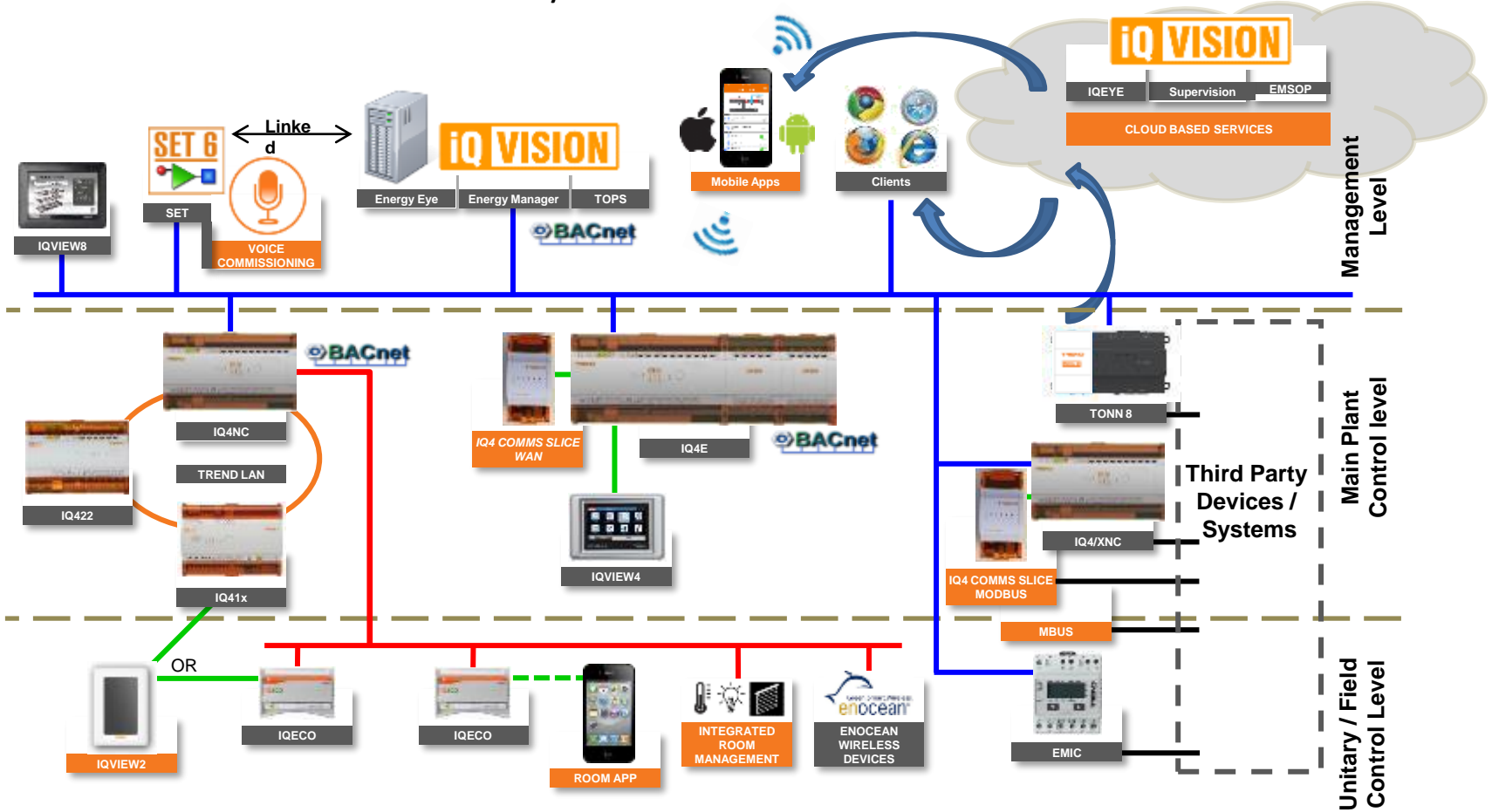
2011



IQECO

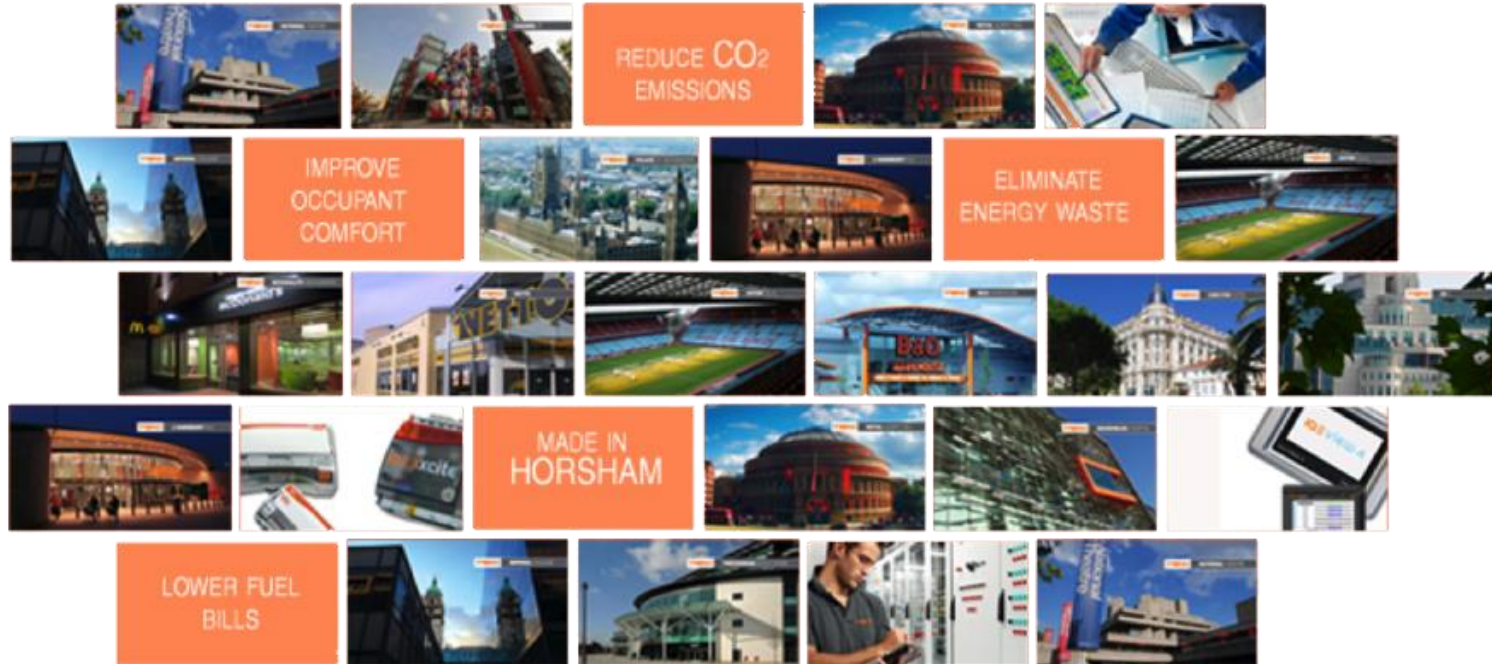
2011

Trend System Vision 2018 - 19





When **Business** needs to manage the energy efficiency of its buildings...



...it trusts **Trend** to Take Control