



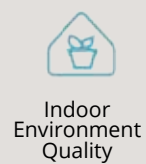


## who we are

We are resource demand management consultants, advising on the reduction of consumption and excess, putting your facility into green mode.

Our ability to create a positive impact on productivity, engagement, well-being and satisfaction in the work environment, produces enormous returns on a nominal investment.

Our focus is the service industry, providing the skillset to support the co-existence of luxurious experiences with minimal environmental impact.





# how we do it

## **Data collection & baseline**

- Site survey
- Resource consumption records
- Occupancy & weather records
- Graph consumption v weather v occupancy v time

## **Sensor installation & monitoring**

- Major areas targeted
- Provision of real time data
- Configuration of thresholds

## **Consumption reduction solutions**

- Lighting
- Hydraulic fixtures
- Energy recovery heat exchangers
- Ground source heat pumps (geothermal)
- Solar PV + batteries
- Rainwater harvesting

## **User interface & benchmarking**

- Collation of sensor data
- Appropriate user interface
- Benchmark against other properties

## **Environmental certification**

- Select appropriate certification/s
- Fast track certification process

## **Periodical review & maintenance**

- Ensuring efficiency objectives are maintained/exceeded
- Detection of maintenance issues
- Increase depth of consumption management



**You can't  
manage what you  
don't measure**

**Analysis of existing  
projects**

**Provides  
quantification**

**Prediction for new  
projects**



# Integration of multiple open source protocols





## Energy

Granular monitoring of energy consumption provides real-time data (and history)  
HVAC integrated with presence sensors, windows/doors sensors and access control  
Internal lighting integrated with presence sensors  
External lighting integrated with a weather station (and/or motion sensor)  
Major pump monitoring  
Variable speed drives reviewed  
Major laundry equipment monitored  
Gas consumption monitored  
Review of energy recovery ventilation  
Energy consumption cross-referenced against weather and occupancy  
Audited data enables review of operating procedures

## Water

Maximise pool filtration efficiency with pH and Redox sensors  
Review pool filtration systems  
Irrigation control through ground sensors (temperature and humidity)  
Introduction of rain water catchments  
Low-flow aerators/showerheads & toilets  
Laundry consumption – granular  
Villa/hut/bathroom – pilot test to monitor water consumption time

## 200020 Waste

Objective – reduce waste  
Composting of food waste  
Recycling systems review  
Product supply chain review  
Quantified and granular  
Local organic produce  
Biodegradable cleaning products  
Local water purifier  
Carbon emission calculation



Cloud-based delivery  
Graphical data representation  
Personalised interface  
Entirely bespoke solution

Real time benchmarking allows comparison





### Green Key

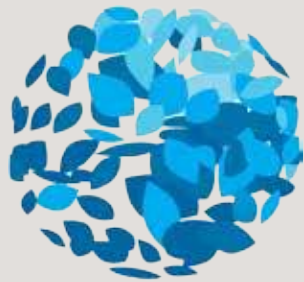
Green Key aims to increase the use of environmentally friendly and sustainable methods of operation and technology in the establishments and thereby reduce the overall use of resources.



## Green Key

### LEED

Leadership in Energy and Environmental Design is a movement of community leaders, professionals, businesses, and innovators working to accomplish a single bold vision: healthy, efficient and equitable buildings and communities.



EARTHCHECK

### EarthCheck

EarthCheck is the world's leading scientific benchmarking, certification and advisory group for the travel industry.



### Green Star

Green Star is a mark of quality for the operation of sustainable buildings and communities. Choosing Green Star helps save money, create a healthy place for people and minimise the environmental footprint.

### GBCSA

GBCSA is a member of the World Green Building Council. It leads the transformation of the property industry to ensure that buildings are designed, built and operated in an environmentally sustainable way.



### WELL

The WELL Building Standard is an evidence-based system for measuring, certifying and monitoring the performance of building features that impact health and well-being. The WELL Building Standard takes a holistic approach to health in the built environment addressing behaviour, operations and design.







## **Project analysis**

- Plant & systems assessment
- Resource consumption data analysis
- Site inspection & operating procedure assessment
- Baseline calculation

## **Target baseline for existing builds**

- Granular monitoring system design and specification
- User interface configuration
- Real time data auditing
- Benchmarking

## **Green certification & maintenance**

- Certification process
- Audit configuration thresholds
- Maintain/reduce resource consumption
- Increased monitoring scope