

Powered by Optimal Monitoring

This changes everything



Every once in a while something happens that changes the world

Electricity

Jet engine

Penicillin

Silicon chip

iPhone

Sergeant Pepper

>EMMA

And nothing is ever the same again

emma@optimalmonitoring.com

Duncan 07590 373 937

Mike 07769932871



Disruptive change: Al in energy management

It isn't a better mousetrap

It's different way of looking at the world (or mice)

- 'No Normal' starting point
- No embedded rules; the system learns from being tutored and from its own experience
- Uses the characteristics of the data to identify the issue
- > Applies these data 'shapes' to become predictive
- Redefines the role of the Energy Manager



The history of automation in energy management

> You get the same mess you always had but much faster...

- > The problems are and always have been
 - Easy access to reliable data
 - Using the data to properly identify the root cause of the problem or opportunity
 - Finding the time to do something about it
- EMMA makes the first two go away



yeah, yeah but they'll still need people

True, but not doing the same things

- AI will be fast and accurate in identifying energy usage anomalies, where they are and what to do about them (That's half of a traditional energy managers job done)
- It will be cheap around £20 per meter, per annum (so for an average energy manager on £50k per year you could monitor 2,000-2,500 meters you can see the wheels grinding in the finance guys' heads now)
- It will see problems before they actually happen so it will become preventative
- It will be always on, 24/7/365. No sick days, holidays, personal time

emma@optimalmonitoring.com

AI ENERGY MANAGEMENT Powered by Optimal Monitoring

KISS

- A simple tick system delivers
 - What happened
 - Likely cause
 - What to do about it
- Access via an APP and/or email
- Feedback in plain English
- Tickets delivered to those with the skills to resolve

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	Your Site £ 69.10 Sunday 12th May 20			
	POSSIBLE REASON Could be an incorrect YOU SHOULD:	hours for several days at N: tly set timer for controlle controls are correctly se	d lighting	
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AI ENERGY MANAGEMENT Powered by Optimal Monitoring

In the Loop

- Access to estate wide KPI's
- Estate performance reporting in one place
 - Who needs help
 - Target greatest opportunities
 - Low effort continuous improvement
- Customised to your objectives

	£790			
	REPO	RT		£258 Per Month
Estate Date				
Savings So Far	£1,590		Average Fix time	7 days
Missed Savings	£920		Feedback	3 of 16
Issues Reported	16		Issues Solved	10
Status	Start	New	Closed	End
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Value	£140	£32	£90	£58
Site Performance	Savings	Issues Solved	Savings Missed	
Site C	£620	7 of 8	£120	
Site B	£490	5 of 5	£400	
Site A	£480	1 of 3	£400	
Site A To Date				
Savings So Far	£490		Average Fix time	3 days
Missed Savings	£120		Feedback	2 of 8
Issues Reported	8		Issues Solved	7
Status	Start	New	Closed	End
Issues	2	1	1	2
Value	£140	£32	£90	£58
				Dago 1 of 2

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Don't Panic

Energy Managers will have to evolve

- Jury's still out but it looks like energy management, building maintenance, M&E replacement will all fall under the same 'ownership' because the stream of rich data and information coming from an AI energy management system will see all of this
- Energy Managers will become infrastructure or ecosystem managers
- So, in the best traditions of Junior Common Room debates



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This House believes that Energy Mangers will have to evolve or die

(but into what?) Discuss

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