



DONT GET LEFT IN THE DARK

PROACTIVE MONITORING & REVENUE ASSURANCE FOR SOLAR PV

rwgconsulting.co.uk
www.facebook.com/metermonitoring





RWG SOLAR
Meter-based Monitoring



rwgconsulting.co.uk
www.facebook.com/metermonitoring

Meter-based Monitoring

For New Installs and
Retrofit 10.07.24



What **We** Do

rwgconsulting.co.uk



www.facebook.com/metermonitoring

- We save time you and worry!
- Ensure PV delivers on target, e.g. 100kWp down for one quarter = £2,500
- Get the investment back on your PV system!
- Automatic bills for solar electricity being used e.g. PPA for your tenants
- Claim your Feed In Tariff, if appropriate - no more readings! (Nb. FIT ended 2019)

Some Clients...

Glastonbury Festival – Worthy Farm – Many Others!



rwgconsulting.co.uk

www.facebook.com/metermonitoring



What is the PV Problem?



rwgconsulting.co.uk
www.facebook.com/metermonitoring



- Monitoring is key to understanding the efficiency of the PV system
- How do we monitor that? Solution ! simple & cost effective,
- UNIVERSAL so not hardware or manufacturer specific
- Identify if a system is underperforming, faulty, or maliciously turned off
- Get advice when things go wrong

What is the **Admin** Problem?



rwgconsulting.co.uk 
www.facebook.com/metermonitoring

- It is difficult, time consuming, and costly to physically visit and or to check PV performance regularly!
- A tenant or premises may have agreed to have a PV system installed.
- This is to have access to cheaper solar electricity.
- MAY Need PPA Billing?
- Commercial large systems faults have a much larger effect, even more reason!
 - Landlord or Investor lead installs on commercial properties
 - Community groups are a perfect FIT



Meter Based Monitoring

rwgconsulting.co.uk
www.facebook.com/metermonitoring



- Fully automated system installed by your PV installer (e.g.new) or can be RWG Consulting (retrofit)
- Automatically sends data to remote web page
- 60 months data and submissions Included & Beyond 60 months costs will be nominal

Eyes **on** Service



- Monitoring is done 2 x per working week
- I have 2 staff who do this looking at performance constantly
- Time consuming and regular requirement
- Reports done monthly
- We check performance against expected generation monthly. (Uses performance data e.g. from PVSol)
- We can assist and advise on getting PV things fixed when they go wrong.
- Its up to the Owner to proceed or not, with this based on budgets etc.
- Usually Time and Materials, Electricians, we have wisdom and can advise with most situations

rwgconsulting.co.uk



www.facebook.com/metermonitoring

Tried **and** Tested Solution



rwgconsulting.co.uk



www.facebook.com/metermonitoring

- **IT IS SECURE AND MORE RELIABLE THAN THE INTERNET**
- System currently monitoring over 35,000 PV systems in the UK and an **Extremely Reliable Solution**
- These range from small domestic systems
- To mainly commercial rooftops and Solar Farms.
- Our Organisation is stable and has long experience
- Our Portal System is likewise

Tried **and** Tested Solution



rwgconsulting.co.uk



www.facebook.com/metermonitoring

- System currently monitoring over 35,000 PV systems in the UK and an **Extremely Reliable Solution**
- Flintshire County Council - 800+ domestic PV systems
- Wrexham Council - 1500+ domestic and commercial PV
- Wigan & Leigh - 1500+ PV and ASHP monitoring
- Waltham Forest - 1000+ domestic PV systems
- Ecotricity - 800+ PV systems

See Expected, Versus Actual Performance Monthly!



rwgconsulting.co.uk

www.facebook.com/metermonitoring

Expected vs Actual Yield 2021



Some Clients...

Glastonbury Festival – Worthy Farm – Many Others!



rwgconsulting.co.uk

www.facebook.com/metermonitoring



Installation



RWG SOLAR
Meter-based Monitoring



rwgconsulting.co.uk

www.facebook.com/metermonitoring

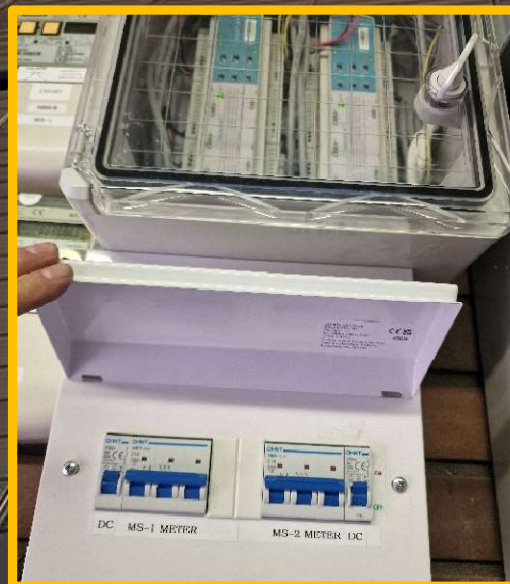
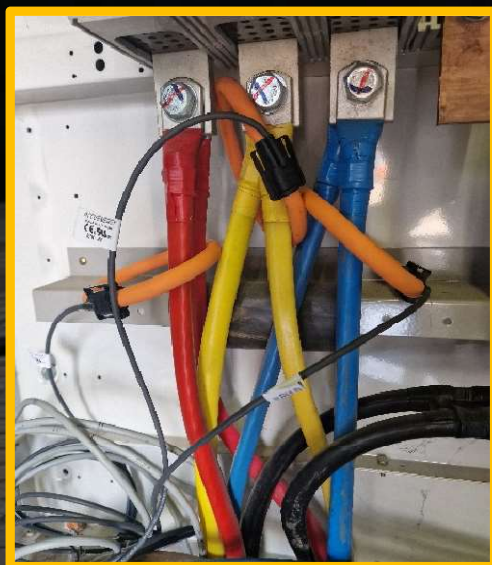


Installation – latest tech



rwgconsulting.co.uk

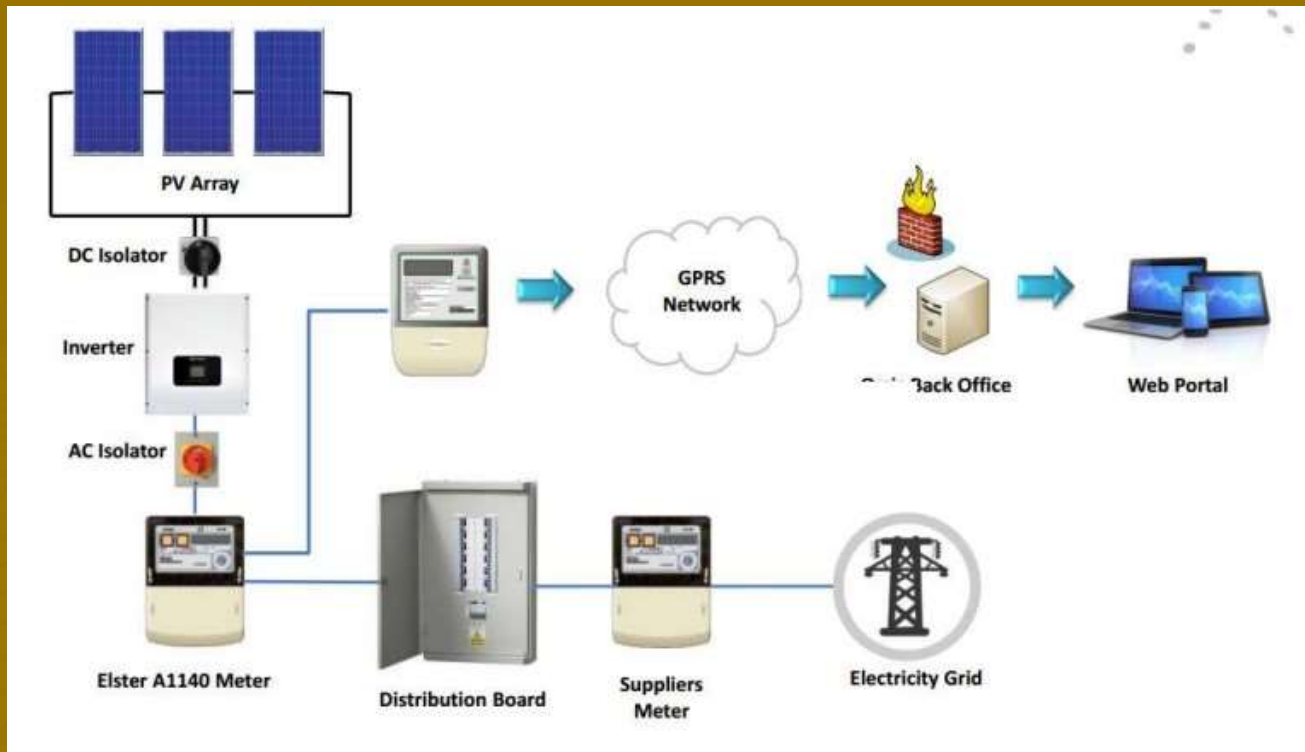
www.facebook.com/metermonitoring



PV Performance METERING



rwgconsulting.co.uk
www.facebook.com/metermonitoring



Tenant / PPA Billing + PV Performance

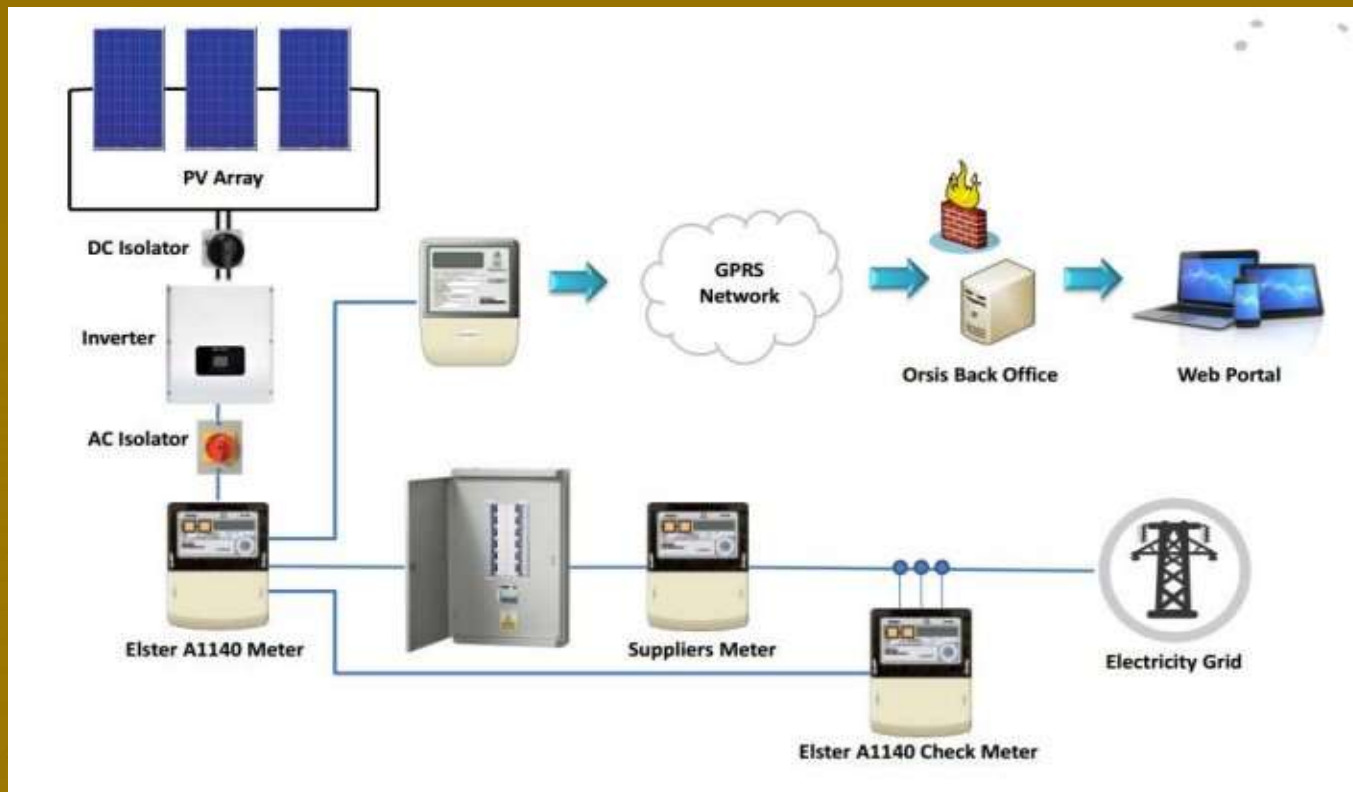


RWG SOLAR
Meter-based Monitoring



rwgconsulting.co.uk

www.facebook.com/metermonitoring





Low Carbon Gordon Limited
The Coach House
2 Upper York Street
Bristol

BS2 8QN

VAT No.

Address Where Meter Installed:

Bill Payer Address (if different):

Invoice Number:

LCG1032

Invoice Date:

02 October 2019

Payment Due Date:

01 November 2019

Meter Serial Numbers:

17061874 Generation
17018693 Export

Start Reading:

79485.926 01 Oct 2019
38823.275 01 Sep 2019

End Reading:

83238.503 30 Sep 2019
40147.991 30 Sep 2019

Billing Period

01 Sep 2019 - 30 Sep 2019

Cost per kWh

5.38 p

Total Consumption (kWh):

2427.861

Net Cost

£ 130.62

VAT 5.0%

£ 6.53

Total Amount Due

£ 137.15



RWG SOLAR
Meter-based Monitoring



rwgconsulting.co.uk

www.facebook.com/metermonitoring

Bill PPA sample



RWG SOLAR
Meter-based Monitoring



rwgconsulting.co.uk

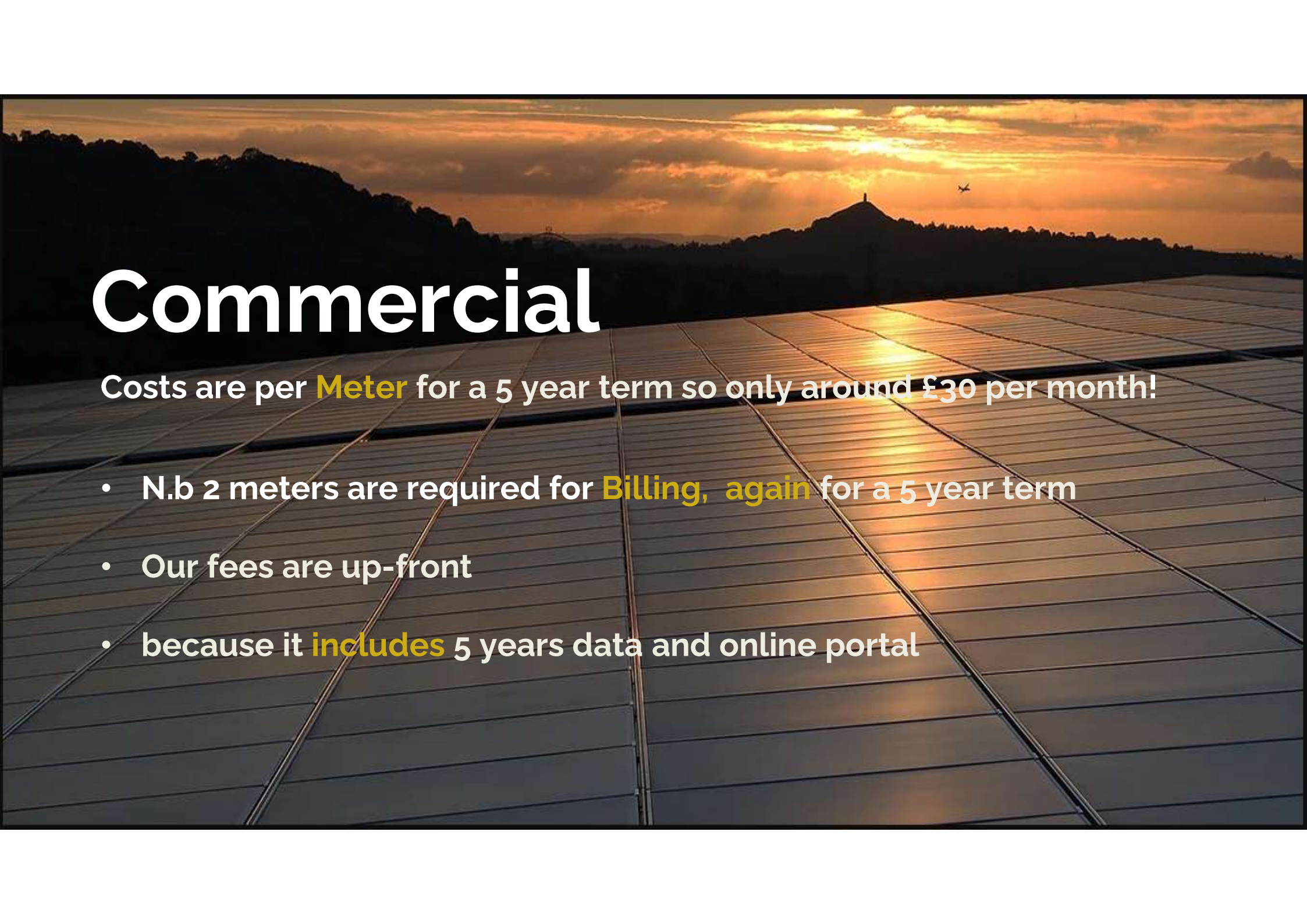
www.facebook.com/metermonitoring

Automated FIT Claim Submission to **Good Energy** - only if it applies

42451

20151209

Client_ID	Client_RGS_ID	FIT_Accreditation_ID	Meter Serial Number	Meter Reading	Meter Read Date	Meter Read Time
42451	42451	FIT00745460	902151013610	1398.07	12/09/2016	03:30



Commercial

Costs are per **Meter** for a 5 year term so only around £30 per month!

- N.b 2 meters are required for **Billing, again** for a 5 year term
- Our fees are up-front
- because it **includes** 5 years data and online portal

Commercial-eyes on

Eyes On Costs years 2-5			PER WEEK	WEEKS		per annum
Generic Site 3 Phase One PV Meter	EYES ON	3 Phase Meter	£4.80	52		£249.60
Generic Site 1 Phase One PV Meter	EYES ON	1 Phase Meter	£1.99	52		£103.48
Eyes On Costs years 6 onwards						per annum
Generic Site 3 Phase One PV Meter	PV METERS ONLY EYES ON	3 Phase Meter	£6.30	52		£327.60
Generic Site 3 Phase SINGLE BILL	BILLING COSTS - PER SITE		£3.00	52		£156.00
Generic Site 1 Phase One PV Meter	PV METERS ONLY EYES ON	1 Phase Meter	£2.99	52		£155.48
All are Current costs and so can rise with inflation etc some costs beyond our control						
FOR EXAMPLE - STANDARD UNIT 2 METERS AND BILLING						
	Year 2- 5				QTY	per annum
Eyes on PV meter	EYES ON year -2-5	3 Phase Meter	£4.80	52	1	£249.60
					YEAR 2-5	£249.60
	Year 6 on					
Eyes On Costs years 6 onwards	INCLUDES DATA AND PORTAL ACCESS AND BILL PRODUCTION				QTY	per annum
Generic Site 3 Phase One PV Meter	PV METERS ONLY EYES ON	3 Phase Meter	£6.30	52	1	£327.60
Generic Site 3 Phase SINGLE BILL	BILLING COSTS - PER SITE		£3.00	52	1	£156.00
					YEAR 6 ON	£483.60



rwgconsulting.co.uk



www.facebook.com/metermonitoring

Recap

- 5 years data and web included in installation cost.
- Unlimited Meter Warranty while in contract
- UNIQUE Automatic Monthly bill for PPA / Tenants for Solar electricity being used on site (for PV roof top investments)
- Reports make sure the system is delivering its target, no dead inverters or open circuit breakers
- e.g. 100kWp down loss for one quarter= £2,500 to 1MWp £25,000
- Get the investment back on your PV system!
- Reliable and 100% Secure
- Claim your Feed In Tariff - no more readings! If applicable- eg Good Energy
- From £30 per month (monitoring)



DONT GET LEFT IN THE DARK

PROACTIVE MONITORING & REVENUE ASSURANCE FOR SOLAR PV

rwgconsulting.co.uk
www.facebook.com/metermonitoring



Thank you