





AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

Our Company Profile

Company Founded By Tom Foley In 2012

Dedicated 100% to PV

Currently Employs 14 Full-Time Staff

Environmentally Responsible Company

Member of Irish Solar Energy Association (ISEA)

Installed Capacity >6MWp

Photos: Members of the Solar Electric Team outside our Office/Warehouse facilities in Killanne, Rathnure, Co. Wexford & our Solar PV car port.





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Domestic Installations



Up to 6kWp roof and ground mount available

Divert excess power to your immersion

3kWp now c.€5000

Only the highest quality components used

Storage units available (sonnen)





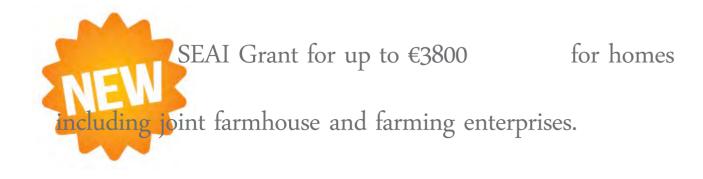




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New SEAI Domestic Grant





CONTACT US TODAY

info@solarelectric.ie

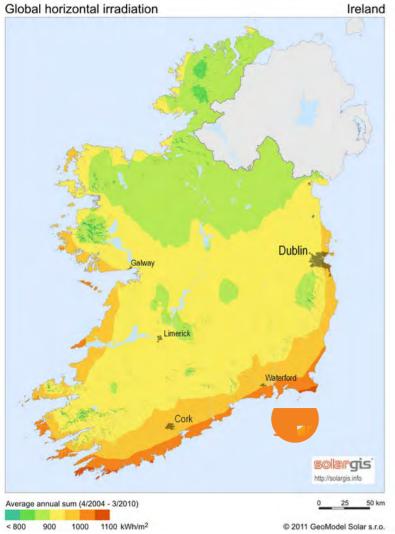
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Solar Resource





Most of the country has a similar solar resource.

Slight increase along coastal areas, especially on the south coast.

Maximum output is 1000 kWh per kWp in south-east.

Equal to output in South Wales and Northern Germany.

Output does not vary very much between 10 - 30 degrees from horizontal.

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Ireland's Largest PV System



COMPANY: O'Shea Farms

LOCATION: Piltown, Co. Kilkenny

PROJECT SIZE: 250kWp

MODULES: 960 x Conergy Power Plus 260Wp Modules

INVERTERS: 8 x SMA Sunny Tripower 25,000TL

ORIENTATION: East-West

YIELD: 208,000kWp/year

CONSTRUCTION: September 2015





Ireland's Largest PV System







Servier – Groundmount System



Predicted Yield – 11,490kWh per year

Real Yield – 12,987kWh per year





Ireland's Leading Solar PV Company



COMPANY: Robert Hogg Pig Farm

LOCATION: Co. Wexford

PROJECT SIZE: 94.61kWp

MODULES: Conergy

INVERTERS: SMA

ORIENTATION: South West

YIELD: 83,395kWh/year

CONSTRUCTION: January 2017



Pig Farm 92 kWp - Actual Data



Month	Actual kWh	Forecast kWh
Jan (est.)	2144	2257
Feb (est.)	3693	3887
Mar (est.)	6668	7019
April (est.)	9601	10106
May	11998	12601
June	12169	12322
July	11862	11566
August	9541	10299
Sept	7209	7661
Oct	3585	4910
Nov	2464	2551
Dec	1461	1767
Total	82395	86946
Output	95%	

PAYBACK SCHEDULE			
Electricity	€0.14		
Saving	€11,535		
Investment	€82,800		
Grant	€32,000		
Net	€50,800		
Payback	4.40 Years		

Robert Hogg Pig Farm 2019



	Project			
	Name of Project	Robert Hogg		
	Location	Clohamon, Bunclody, Co. Wexford.		
	Installed Capacity (kW)	108.54 kWp		
	Year of Installation	2019		
	Module type and number	324 no. 335w JA Solar Modules JAM60S10-335?PR Mono's		
	Inverter type and number	3 x SMA STP50-40 CORE1 (3 Phase Inverters)		
	Project Description	Installation of a 108.54 KWp PV Arraysplit as - 54.27KWp / 162 Panels East Facing - 54.27KWp / 162 Panels West Facing		
	Estimated Yield Sunny Design	89,048 KWh per annum		
	Production Estimated v Actual	No data currently available		
	Resources used on site (as main contractor)	4 Roof Installers, 2 Electricians		
	Completed Date	Friday 15 th Nov. 20198		
•	Duration of Works	8 days in total on site.		
-	Any Additional Information			



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Sunny Design



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		Grid voltage: 230V (230V / 400V)	
System overview			
	echnology Co. Ltd. JAM60S1 e: 22 °, Mounting type: Roof, Peak p	0-335/PR (1000V) (03/2019) power: 54.27 kWp	(PV array A)
	echnology Co. Ltd. JAM60S1 e: 22 °, Mounting type: Roof, Peak	0-335/PR (1000V) (03/2019) power: 54.27 kWp	(PV array B)
Q: 1 x STP 50-40		1 x STP 50-40	
System Monitoring			
🏂 Sunny Portal			
PV design data			
Total number of PV modules:	324	Annual energy yield*:	89,048.21 kWh
Nominal AC power of the PV inve	erters: 100.00 kW	Energy usability factor:	100 %
Peak power:	108.54 kWp	Performance ratio*:	86.9 %
Number of PV inverters:	2	Spec. energy yield*:	820 kWh/kWp
AC active power:	100.00 kW	Line losses (in % of PV energy):	0.22 %

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Robert Hogg Pig Farm 2019





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Teagasc – Moorepark Project



Project	
Name of Project	Teagasc, Moorepark
Location	Moorepark, Fermoy, Co. Cork
Installed Capacity (kW)	9 kWp
Year of Installation	2019
Module type and number	30 no. 300w Sharp Modules NU-AK300B Mono's
Inverter type and number	1 x SMA STP80001L-20 3 Phase Inverter
Project Description	Installation of a 9KWp PV Array split as - 4.2KWp / 14 Panels East Facing - 4.8KWp / 16 panels West Facing
Estimated Yield Sunny Design	7,139 KWh per annum
Production Estimated v Actual	Actual data available from May to Nov { See screen shot below Up by 8.4% on predicated yield for this time period
Resources used on site (as main contractor)	2 Roof Installers, 1 Electrician
Completed Date	Wednesday 15 th May.
Duration of Works	3 days in totaton site.
Any Additional Information	



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System overview

14 x Sharp NU-AK300B (West Array)

Azimuth angle: 105 °, Tilt angle: 25 °, Mounting type: Roof, Peak power: 4.20 kWp

16 x Sharp NU-AK300B (East Array)

Azimuth angle: -75 °, Tilt angle: 25 °, Mounting type: Roof, Peak power: 4.80 kWp

1 x STP 8000TL-20

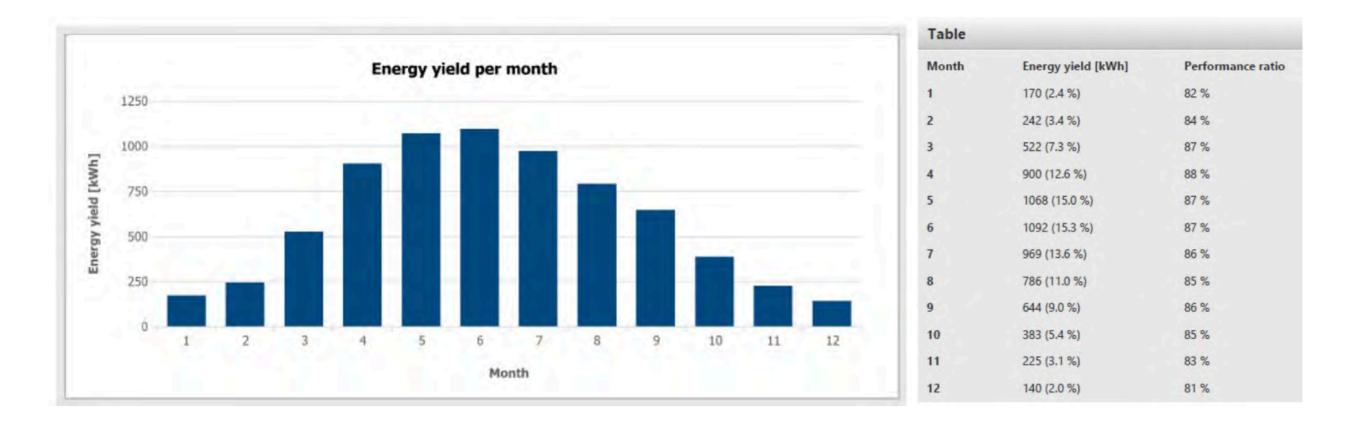
PV design data

Total number of PV modules:	30	Annual energy yield*:	7,139.88 kWh
Nominal AC power of the PV inverters:	8.00 kW	Energy usability factor:	100 %
Peak power:	9.00 kWp	Performance ratio*:	86.1 %
Number of PV inverters:	1	Spec. energy yield*:	793 kWh/kWp
AC active power:	8.00 kW	Line losses (in % of PV energy):	
Active power ratio:	88.9 %	Unbalanced load:	0.00 VA

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Energy Yield Per Month

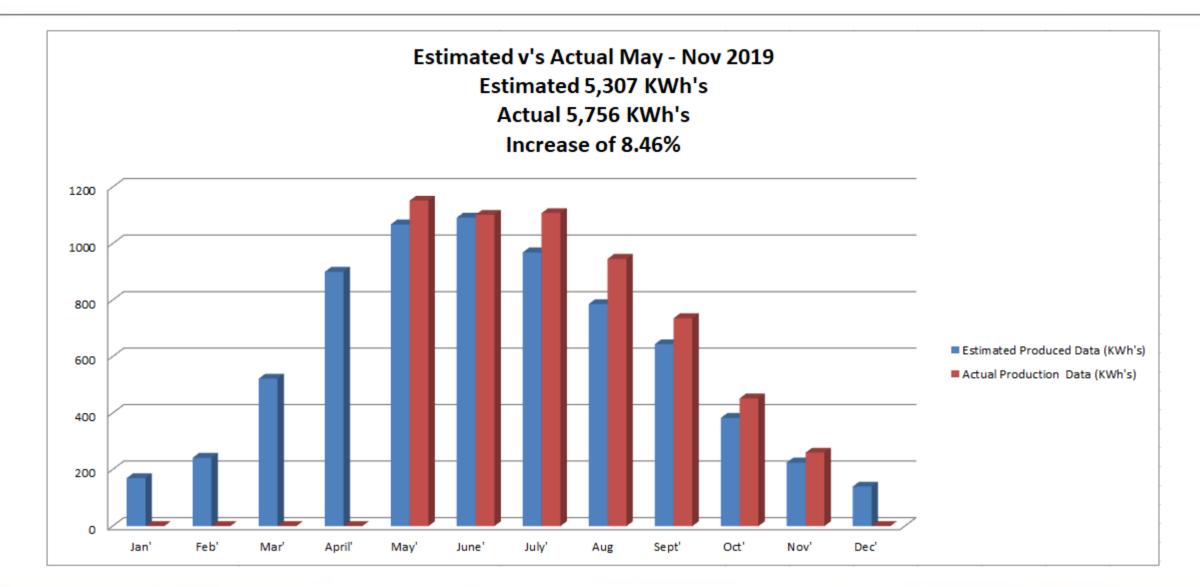




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Production





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Operations & Maintenance

Fit and forget system

Minimal O&M costs

No moving parts

Modules are largely self cleaning

Cleaning once per year depending on local conditions – dust, bird droppings, etc.

No specialist equipment required, same as cleaning windows

Modules performance guaranteed for 25 years

Inverters come with standard 5 year warranty - can be extended to 25 years





Our Partners









sonnenBatterie Center Leinster





Our Client List



O Reilly Mushrooms - 150KWp Stafford Bakeries - 518KWp Stablefields Ltd - 90KWp Casement Aerodrome - 378KWp Helsinn Birex - 50KWp O Shea Farms - 250KWp Gurteen Agricultural College - 50KWp Dublin Port - 208KWp Noonan Construction - 144KWp Robert Hogg - 200KWp Servier - 24KWp Tipperary Co. Co. - 192KWp Port of Waterford - 19.28KWp Univet - 165KWp Michael Bennett Group - 18KWp Kildare Co. Co. - 73.4KWp Ballyvolane Fire Station - 10.2KWp Castletown Bere Fisherman's CoOp - 250KWp

Defence Forces Ireland - 559KWp

Ireland's Leading Solar PV Company



COMPANY: Andrew Bird Dairy Farm

LOCATION: East Cork

PROJECT SIZE: 10.8kWp

MODULES: Conergy

INVERTERS: SMA STP10000TL

ORIENTATION: SSW

YIELD: 10,014kWh/year

CONSTRUCTION: August 2018



Andrew Bird





Ireland's Leading Solar PV Company



COMPANY: J&M Dairies

LOCATION: Kilkenny

PROJECT SIZE: 9.54kWp & 10kWh Battery

MODULES: Conergy

INVERTERS: SMA STP9000TL

ORIENTATION: SSW

YIELD: 9,233kWh/year

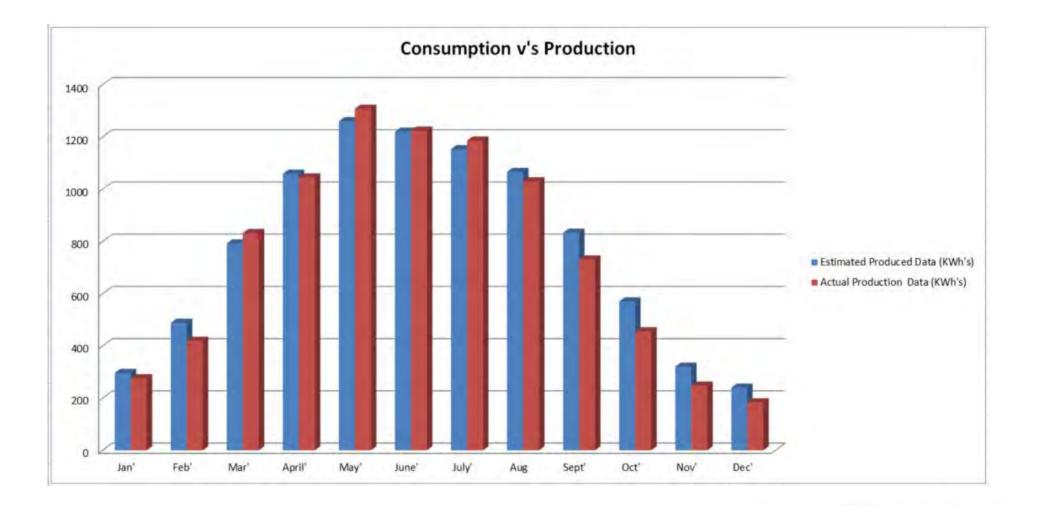
CONSTRUCTION: June 2018



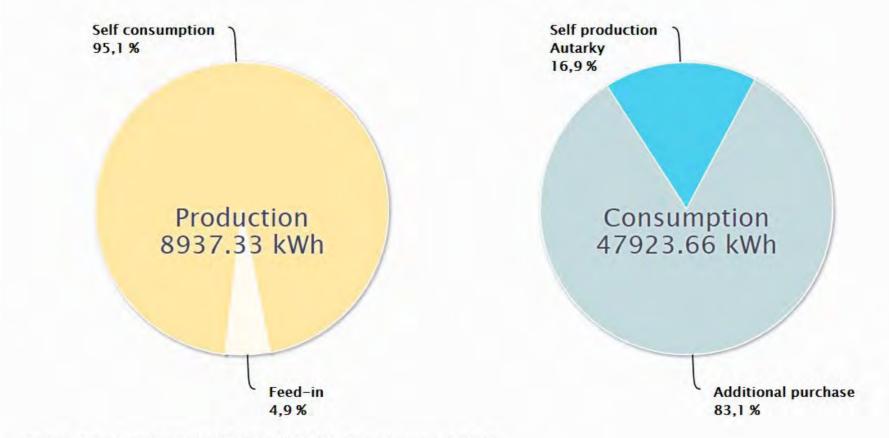






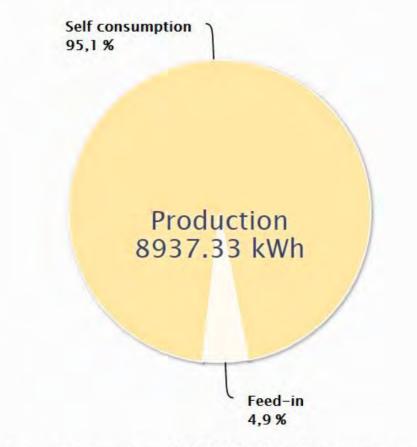






365 days of data loaded up to 02/13/2020 at 11:32 AM , chosen timespan: 8764.3 h





365 days of data loaded up to 02/13/2020 at 11:32 AM , chosen timespan: 8764.3 h



We have installed over 20,000 panels since 2012 and we're still counting!

Join us in creating a better energy landscape!!





Tom Foley Sales & Operations Director

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