

**ROSCOMMON COUNTY COUNCIL**

**PLANNING AND DEVELOPMENT ACT, 2000 (as amended)**

**SECTION 5 - DECLARATION ON DEVELOPMENT AND EXEMPTED DEVELOPMENT**

**NOTIFICATION OF DECISION**

**REGISTERED POST**

Gorthaganny Group Water Scheme Co-Op Society,  
Gorthaganny,  
Co. Roscommon.

Reference Number: DED 882

Application Received: 25<sup>th</sup> April, 2025

Name of Applicants: Gorthaganny Group Water Scheme Co-Op Society

Agent: Eve Hughes

WHEREAS a question has arisen as to whether the installation of c.17KWP PV ground mounted solar array covering no more than 75m<sup>2</sup> and not exceeding 2.5m in height and associated site works at Gorthaganny, Co. Roscommon, is or is not development and is or is not exempted development:

AND WHEREAS Roscommon County Council, in considering this application, had regard particularly to:

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Acts 2000 (as amended).
- (b) Class 56 of Part 1 of Schedule 2 of the Planning and Development Regulations 2001 as amended.
- (c) Article 6 and 9 of the planning and Development Regulations 2001 as amended.
- (d) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Acts 2000 (as amended).
- (e) The planning history of the site.

AND WHEREAS Roscommon County Council has concluded that:

- (a) The works are development.
- (b) The installation of c.17KWP PV ground mounted solar array covering no more than 75m<sup>2</sup> and not exceeding 2.5m in height and associated site works is deemed an exempted development provided the solar array is positioned on site behind the front wall of the existing building with the front wall of the existing building being the elevation facing the public road (L-1238).
- (c) The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.

**NOW THEREFORE:**

By virtue of the powers vested in me by the Local Government Acts 1925 – 2024 and Section 5(2)(a) of the Planning and Development Act 2000 (as amended) and having considered the various submissions and reports in connection with the application described above, it is hereby declared that the said development to install c.17KWP PV ground mounted solar array covering no more than 75m<sup>2</sup> and not exceeding 2.5m in height and associated site works at Gorthaganny, Co. Roscommon, is development that is **exempted development, provided the solar array is positioned on site behind the front wall of the existing building with the front wall of the existing building being the elevation facing the public road (L-1238)**, as defined within the Planning and Development Act 2000 (as amended) and associated Regulations.

Signed on behalf of the Council:



Alan O'Connell,  
Senior Executive Planner, Planning.

Date: 14<sup>th</sup> July, 2025

cc agent via email: Eve Hughes  
[eve.hughes@atv.ie](mailto:eve.hughes@atv.ie)

**ADVICE NOTE**

**Any person issued with a Declaration under Section 5 of the Planning and Development Act, 2000 (as amended) may, on payment to An Bord Pleanála of the prescribed fee, refer a Declaration for review within 4 weeks of the date of the issuing of the Declaration.**

## Carmel Curley

---

**From:** Carmel Curley  
**Sent:** Monday 14 July 2025 15:39  
**To:** eve.hughes@atv.ie  
**Subject:** DED 882 - Notification of Decision  
**Attachments:** DED 882 - Notification of Decision.pdf

A Chara,

Please find attached Notification of Decision for the Section 5 Declaration of Exempted Development Application submitted for Gorthaganny Group Water Scheme Co-Op Society – DED 882.

Mise le meas,

Carmel

**Carmel Curley, Staff Officer,  
Planning Department, Roscommon County Council,  
Aras an Chontae, Roscommon, Co. Roscommon, F42 VR98  
☎: (090) 6637100**

✉: [planning@roscommoncoco.ie](mailto:planning@roscommoncoco.ie) | 🌐 [www.roscommoncoco.ie](http://www.roscommoncoco.ie)

### MAP LOCATION



**Planner's Report on application under  
Section 5 of the Planning and Development Act 2000 (as amended)**

|                                 |  |
|---------------------------------|--|
| <b>Reference Number:</b>        | DED 882  |
| <b>Re:</b>                      | Application for a Declaration under Section 5 of the Planning and Development Act 2000, regarding Exempted Development permission for the installation of c.17KWP PV ground mounted solar array covering no more than 75m <sup>2</sup> and not exceeding 2.5m in height and associated site works. |
| <b>Name of Applicant:</b>       | Gorthaganny Group Water Scheme Co-Op Society   |
| <b>Location of Development:</b> | Gorthaganny, Co Roscommon.   |

**WHEREAS a question has arisen as to whether the following works; permission for the installation of c.17KWP PV ground mounted solar array covering no more than 75m<sup>2</sup> and not exceeding 2.5m in height and associated site works at the above address is or is not development, and is or is not exempted development.**

I have considered this question, and I have had regard particularly to –

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Acts 2000 (as amended);
- (b) Class 56 of Part 1 of Schedule 2 of the Planning and Development Regulations 2001 as amended
- (c) Article 6 and 9 of the planning and Development Regulations 2001 as amended.
- (d) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Acts 2000 (as amended);
- (e) The planning history of the site

**Site Location & Development Description**

The proposed development is located off the L-1238 at Gorthaganny, Co Roscommon. The site contained the existing pumping station on the bank of Errit Lough. The proposed development is to install a ground mounted solar array along the roadside boundary wall.

**Archaeological and Cultural Heritage**

No RMP recorded in the likely zone of influence of the proposed development. No Protected structures or structures listed in the National Inventory of Architectural Heritage the likely zone of influence of the proposed development.

**Appropriate Assessment**

The closest European site to the site of the proposed development is Errit Lough PNHA/SAC (Site Code 000607) which is located next the to the site boundary to the east of the subject site.

Having regard to the separation distance between the site and the closest Natura 2000 site and the nature of the proposal, there is no real likelihood of significant effects on the conservation objectives of these or other European sites arising from the proposed development. The need for further Appropriate Assessment, therefore, be excluded.

**Planning History**

As per the Roscommon County Council's Planning Registry, recent planning history as follows

- 09/610 – Part 8 for the upgrading of existing water treatment works

## **Relevant statutory provisions**

### **Planning and Development Acts 2000 (as amended)**

#### **Section 2.-(1)**

"works" includes any act or operation of construction, excavation, demolition, extension, alteration, repair or renewal and, in relation to a protected structure or proposed protected structure, includes any act or operation involving the application or removal of plaster, paint, wallpaper, tiles or other material to or from the surfaces of the interior or exterior of a structure.

#### **Section 3.-(1)**

In this Act, "development" means, except where the context otherwise requires, the carrying out of any works on, in, over or under land or the making of any material change in the use of any structures or other land.

Section 4 (2) of the Planning and Development Act provides that the Minister, by regulations, provide for any class of development to be exempted development. The principal regulations made under this provision are the Planning and Development Regulations.

### **Planning and Development Regulations, 2001 as amended**

#### **Article 6 (1)**

Subject to article 9, development of a class specified in column 1 of Part 3 of Schedule 2 shall be exempted development for the purposes of the Act, provided that such development complies with the conditions and limitations specified in column 2 of the said Part 3 opposite the mention of that class in the said column 1.

#### **Article 9 (1) applies:**

Development to which article 6 relates shall not be exempted development for the purposes of the Act

viiB) comprise development in relation to which a planning authority or an Bord Pleanála is the competent authority in relation to appropriate assessment and the development would require an appropriate assessment because it would be likely to have a significant effect on the integrity of a European site,

### **Class 56 of Part 1 of Schedule 2: Exempted development -General**

| <b>Description of Development</b>   | <b>Conditions and Limitations</b>   |
|---|---|
| <b>CLASS 56</b><br><br>(e) The placing or erection on a roof of a business premises or light industrial building, or within the curtilage of a business premises or light industrial building, or on a roof of any ancillary buildings within the curtilage of a business premises or light industrial building of a solar photo-voltaic and/or solar thermal collector installation. | <p>9. Any free-standing solar photo-voltaic or solar thermal collector installation shall not be placed or erected forward of the front wall of the business premises or light industrial building.</p> <p>10. The total aperture area of any free-standing solar photo-voltaic and solar thermal collector panels taken together with any other such existing free-standing panels shall not exceed 75 square metres.</p> <p>11. The height of any free-standing solar photo-voltaic or solar thermal collector installation shall not exceed 2.5 metres at its highest point above ground level.</p> <p>12. The placing or erection of a solar photo-voltaic or solar thermal collector installation on any wall shall not be exempted development.</p> |

|  |   |
|--|---|
|  | <p>13. The placing or erection of any free-standing solar photo-voltaic or solar thermal collector installation within an Architectural Conservation Area shall only be exempted development if those works would not materially affect the character of the area.</p> <p>14. No sign, advertisement or object not required for the functioning or safety of the solar photo-voltaic or solar thermal collector installation shall be attached to or exhibited on such installation.</p> <p>15. Development under this Class shall only be exempted development where the solar photo-voltaic or solar thermal collector installation is primarily used for the provision of electricity or heating for use within the curtilage of the business premises or light industrial building, and shall not be considered a change of use for the purposes of the Act.</p> <p>16. Development under this Class which causes hazardous glint and/or glare shall not be exempted development and any solar photo-voltaic or solar thermal collector panels which are causing hazardous glint and/or glare shall either be removed or be covered until such time as a mitigation plan to address the hazardous glint and/or glare is agreed and implemented to the satisfaction of the Planning Authority.</p> |
|--|---|

## Assessment

In accordance with the Planning and Development Act, 2000, as amended Section 3. (1) development is defined as the following: "In this Act, "development" means, except where the context otherwise requires, the carrying out of any works on, in, over or under land or the making of any material change in the use of any structures or other land". The proposed development is considered to be the carrying out of works. Works are defined in the Act as; "works" includes any act or operation of construction, excavation, demolition, extension, alteration, repair or renewal and, in relation to a protected structure....". It is considered that said proposed development is to installation of c.17KWP PV ground mounted solar array constitutes development, as defined in Section 3 of the said Act.

Having reviewed the proposed works in the context of Class 56(e) of Part 1 Article 6 Schedule 2 of the Planning and Development Regulations, 2001, as amended, the proposed solar array as described in this case is considered to be an exempted development provided the solar array is positioned on site behind the front wall of the existing building with the front wall of the existing building being the elevation facing the public road.

With Regard to Article 9 (1)(a) of the Planning and Development Regulations, it is reasonable to conclude that on the basis of the information available, it is considered that the proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the need for EIA or AA does not apply with respect to the current referral case.

I am satisfied that an Environmental Impact Assessment Report or Natura Impact Statement are not required. It should be noted that any development for which Environmental Impact Assessment or Appropriate Assessment is required shall not be exempted development unless specifically exempted in regulations where there is provision in other legislation for the carrying out of EIA or AA. In addition, the restrictions on exemption Art 9 (1)(a) (viiB) exclude development which would otherwise be exempted development under these regulations where a NIS is required.

### Recommendation

**WHEREAS a question has arisen as to whether a proposed development;** permission for the installation of c.17KWP PV ground mounted solar array covering no more than 75m<sup>2</sup> and not exceeding 2.5m in height and associated site works, as outlined above at Gorthaganny, Co Roscommon is or is not development and is or is not exempted development, I have considered this question, and I have had regard particularly to –

- (a) Sections 2, 3, 4 and 5 of the Planning and Development Acts 2000 (as amended);
- (b) Class 56 of Part 1 of Schedule 2 of the Planning and Development Regulations 2001 as amended
- (c) Article 6 and 9 of the planning and Development Regulations 2001 as amended.
- (d) The record forwarded to Roscommon County Council in accordance with subsection (6)(c) of Section 5 of the Planning and Development Acts 2000 (as amended);
- (e) The planning history of the site

### AND WHEREAS I have concluded that:

- a) The works are development.
- b) The installation of c.17KWP PV ground mounted solar array covering no more than 75m<sup>2</sup> and not exceeding 2.5m in height and associated site works is deemed an exempted development provided the solar array is positioned on site behind the front wall of the existing building with the front wall of the existing building being the elevation facing the public road (L-1238).
- c) The proposed development individually and in combination with other plans or projects would not be likely to have a significant effect on any European site and that the requirement for AA or EIAR does not apply with respect to the current case.

and I recommend that a declaration to that effect should be issued to the applicant.

Signed: 

Date: 14<sup>th</sup> July 2025

Civil Technician

Signed: 

Date: 14<sup>th</sup> July 2025

Senior Executive Planner







## Carmel Curley

---

**From:** Carmel Curley  
**Sent:** Tuesday 29 April 2025 14:51  
**To:** eve.hughes@atv.ie  
**Subject:** DED882 - Gorthaganny Group Water Scheme Co-Op Society  
**Attachments:** DED 882 - Ack letter & receipt.pdf

Hi Eve,

Please find attached Acknowledgement Letter & Receipt for DED Application 882 submitted for Gorthaganny Group Water Scheme Co-Op Society.

Regards,

Carmel

Carmel Curley, Staff Officer,  
Planning Department, Roscommon County Council,  
Aras an Chontae, Roscommon, Co. Roscommon, F42 VR98  
☎: (090) 6637100

✉: [planning@roscommoncoco.ie](mailto:planning@roscommoncoco.ie) | 🌐 [www.roscommoncoco.ie](http://www.roscommoncoco.ie)

MAP LOCATION





Comhairle Contae  
Ros Comáin  
Roscommon  
County Council



Gorthaganny Group Water Scheme Co-Op Society,  
Gortaganny,  
Co. Roscommon.

Date: 29<sup>th</sup> April, 2025  
Planning Reference: DED 882

Re: Application for a Declaration under Section 5 of the Planning & Development Act 2000  
(as amended), regarding Exempted Development.

Development: Permission for the installation of c.17KWP PV ground mounted solar array covering no  
more than 75 sq.m and not exceeding 2.5 in height and associated site works under the  
Planning & Development Act (Exempted Development) regulations 2018 at Gorthaganny,  
Co. Roscommon.

\*\*\*\*\*

A Chara,

I wish to acknowledge receipt of the application which was received on the 25<sup>th</sup> April, 2025, for a Declaration under  
Section 5 of the Planning & Development Act 2000 (as amended), regarding Exempted Development along with the  
appropriate fee in the sum of €80.00, Receipt No. L/01/0/234378 dated 28<sup>th</sup> April, 2025, receipt enclosed herewith.

**Note:** Please note your Planning Reference No. is **DED 882**  
This should be quoted in all correspondence and telephone queries.

Mise le meas,

Alan O'Connell,  
Senior Executive Planner,  
Planning Department.

cc agent via email: Eve Hughes  
[eve.hughes@atv.ie](mailto:eve.hughes@atv.ie)

Roscommon County Council  
Aras an Chontae  
Roscommon  
09066 37100

28/04/2025 14:57:41

Receipt No L01/0/234378

GOTHAGANNY GROUP WATER SCHEME  
COOPERATIVE SOCIETY  
GORTAGANNY  
CO ROSCOMMON

EXEMPTED DEVELOPMENT

|                           |       |
|---------------------------|-------|
| PLANNING APPLICATION FEES | 80.00 |
| GOODS                     | 80.00 |
| VAT Exempt/Non-vatable    |       |
| DED882                    |       |

|         |           |
|---------|-----------|
| Total : | 80.00 EUR |
|---------|-----------|

|          |       |
|----------|-------|
| Tendered |       |
| Cheque   | 80.00 |
| 90       |       |

|          |      |
|----------|------|
| Change : | 0.00 |
|----------|------|

Issued By : Louis Carroll  
From : Central Cash Office

GORTHAGANNY GROUP WATER SCHEME CO-OPERATIVE SOCIETY LIMITED

GORTHAGANNY CASTLEREA CO ROSCOMMON

23<sup>RD</sup> APRIL 2025.

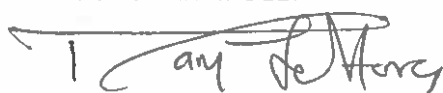
SOLAR PANEL INSTALLATION APPLICATION OF EXEMPTION

DEAR SIR/MADAM,

PLEASE FIND ENCLOSED ALL DOCUMENTS AS PREPARED BY EVA HUGHES TOGETHER WITH  
CHEQUE IN THE SUM OF €80.00 IN SETTLEMENT OF FEE.

WE AWAIT HEARING FROM YOU.

YOURS FAITHFULLY



MARY JO HORA

SECRETARY,

GORTHAGANNY GROUP WATER SCHEME





Comhairle Contae  
Ros Comáin



Áras an Chontae,  
Roscommon,  
Co. Roscommon.

Phone: (090) 6637100

Email: [planning@roscommoncoco.ie](mailto:planning@roscommoncoco.ie)

### Roscommon County Council

Application for a Declaration under Section 5 of the Planning & Development Act 2000, regarding Exempted Development

|  |  |
|--|--|
| Name:  | GORTHAGANNY GROUP WATER SCHEME<br>CO-OP SOCIETY  |
| Address:   | GORTHAGANNY (GORTAGANNY),<br>Co. ROSCOMMON.  |
| Name & Address of Agent:   | EVE HUGHES,<br>CRU, ATU (SLIGO), ASH LANE,<br>BALLINDEE, SLIGO.<br>Eve.Hughes@ATU.ie.  |
| Nature of Proposed Works   | PROPOSED EXEMPT DEVELOPMENT<br>CONSISTING OF THE INSTALLATION OF<br>C. 17 KWP PV GROUND MOUNTED<br>SOLAR ARRAY COVERING NO MORE THAN<br>75 sq. m AND NOT EXCEEDING 2.5 m<br>IN HEIGHT AND ASSOCIATED SITE WORKS. |
| Location (Townland & O.S No.)  | GORTHAGANNY / GORTAGANNY<br>O.S. 2092 MO 082, MO 093, R N 019.   |
| Floor Area   | (NOT EXCEEDING) 75 m <sup>2</sup> .  |
| Height above ground level  | (NOT EXCEEDING 2.5 m.  |
| Total area of private open space<br>remaining after completion of this<br>development      | c. 1150 m <sup>2</sup>   |
| Roofing Material (Slates, Tiles,<br>other) (Specify)                                       | NOT APPLICABLE   |
| Proposed external walling (plaster,<br>stonework, brick or other finish,<br>giving colour) | NOT APPLICABLE   |
| Is proposed works located at<br>front/rear/side of existing house.                         | NO. NEITHER. NOT APPLICABLE  |



## Roscommon County Council

Application for a Declaration under Section 5 of the Planning & Development Act 2000,  
regarding Exempted Development

|  |  |
|--|--|
| Has an application been made previously for this site                        | YES  |
| If yes give ref. number (include full details of existing extension, if any) | UNKNOWN.   |
| Existing use of land or structure  | GROUP WATER SCHEME PUMPING STATION                   |
| Proposed use of land or structure  | CONTINUED USE AS GROUP WATER SCHEME PUMPING STATION. |
| Distance of proposed building line from edge of roadway                      | 5.5m   |
| Does the proposed development involve the provision of a piped water supply  | NO.  |
| Does the proposed development involve the provision of sanitary facilities   | NO.  |

Signature:

*Eve Hughes* (EVE HUGHES, AGENT ON BEHALF OF THE APPLICANTS).

Date:

15/04/2025.

Note: This application must be accompanied by:-

- (a) €80 fee
- (b) Site Location map to a scale of 1:2500 clearly identifying the location
- (c) Site Layout plan to the scale of 1:500 indicating exact location of proposed development
- (d) Details specification of development proposed



JFW Renewables Ltd.,  
Old Galway Rd.,  
Loughrea,  
Co. Galway  
H62 TK76  
091-470928

Technical Rep: [REDACTED]

Sales Rep: [REDACTED]

DATE: 23.07.2024

**Gortaganny GWS 15.6kwp Solar PV**

30no Jinko 520w solar panels  
1no Bespoke ground mount system(concrete pad by others)  
1no Huawei 10ktl three-phase inverter  
1no DC cabling & isolators  
1no AC cabling & isolators  
1no Shunt safety switch  
Electrical protective devices as required  
1no three-phase power meter  
Cable containment, where required.  
Earthing & Bonding where required  
Monitoring app/software  
Testing & Certification

**Cost** [REDACTED]

**SEAI NDMG grant of** [REDACTED] **available on this installation**

**Nett cost** [REDACTED]

**Open Solar Proposal:** The open solar proposal which you should have received, details the expected generation from the system and shows expected payback times and prospective amounts that may be exported etc. These figures should be quite accurate.

**Lead Time:** From receipt of deposit to installation completion is usually 4-6 weeks, depending on time of year. If an NC7 application is required, then that will be your lead time.

**Proposed Site Team:** Upon receipt of the deposit we will give the details of the proposed installers including any/all relevant qualifications and insurance/method statements etc.

**Maintenance:** Solar panels do not require any routine maintenance. In a prolonged dry spell, they may occasionally need to be hosed down to clear any dust.

**Technical Support:** JFW Renewables provide technical support during business hours and we have dedicated technical support staff both in the office and on the road

**Paperwork:** All grant and ESB network paperwork is taken care of by JFW Renewables

**Financial integrity:** JFW Renewables will provide relevant tax clearance paperwork before any order is placed.

**ESB application:** This installation requires a free NC6 application to ESB Networks



15.6 kw  
System Size

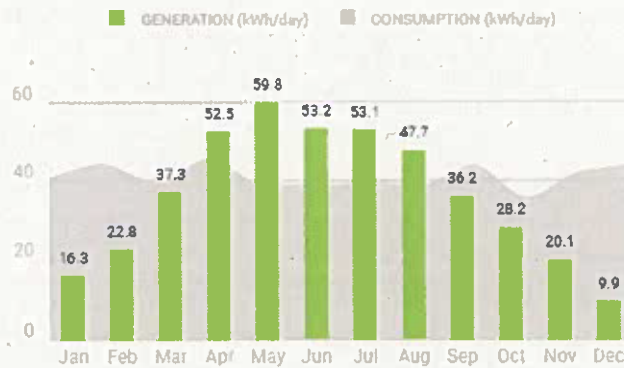
Estimated Annual  
Electricity Bill Savings

Net System Price  
excluding tax

Estimated Annual Solar  
Generation

## System Performance

89%  
Energy From Solar  
[Daily Energy Profile](#)



66%  
Self-consumption

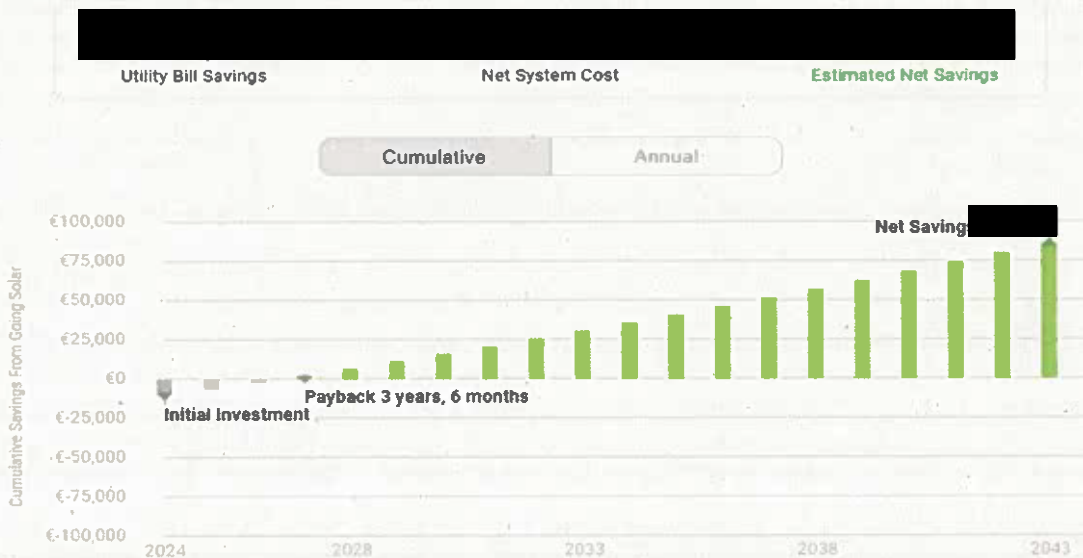
34%  
Export to grid



## Net Financial Impact

Simple Financials

Detailed Financials



www.jinkosolar.com



# Tiger Neo N-type 54HL4R-BDV 420-440 Watt

BIFACIAL MODULE WITH  
DUAL GLASS

## N-Type

Positive power tolerance of 0~+3%

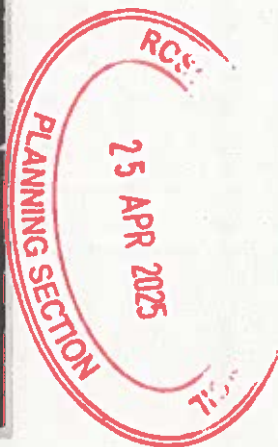
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LetID.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Enhanced Mechanical Load

Certified to withstand wind load (4000 Pascal) and snow load (4000 Pascal).



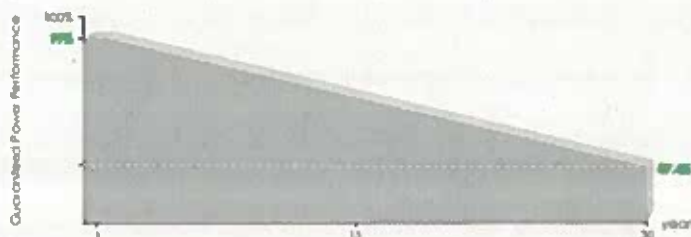
### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



POSITIVE QUALITY  
Benchmarking & Improvement

## LINEAR PERFORMANCE WARRANTY

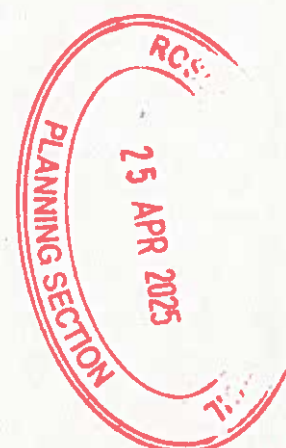


25 Year Product Warranty is valid for JFW Renewable Only

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

# Smart Energy Controller



## Active Safety

AI Powered  
Active Arcing Protection



## Higher Yields

Up to 30% More Energy  
with Optimizer<sup>1</sup>



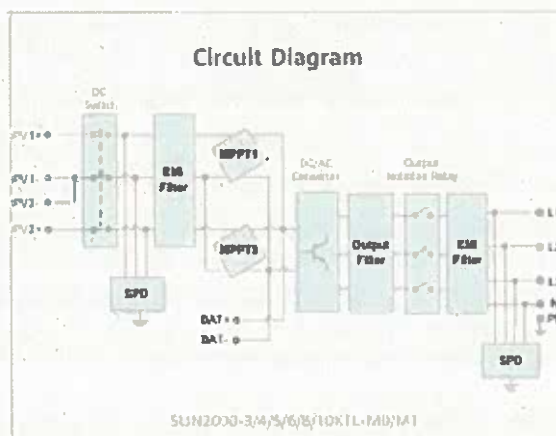
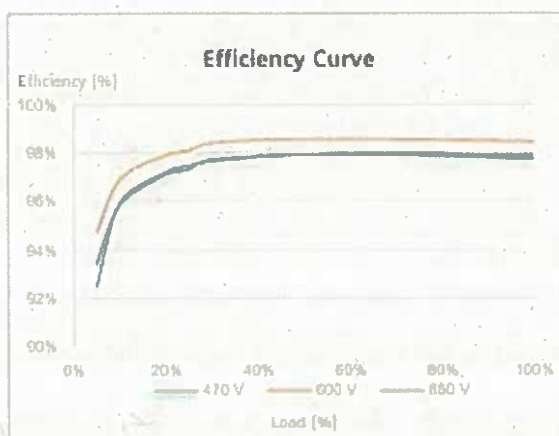
## Battery Ready

Plug & Play battery interface<sup>2</sup>



## Flexible Communication

WLAN, Fast Ethernet, 4G  
Communication Supported



<sup>1</sup> Only applicable to SUN2000-3/4/5/6/10KTL-M1 smart energy system  
<sup>2</sup> SUN2000-3/4/5/6/8/10KTL-M0 will be compatible with HUAWEI's new string ESS in Q4, 2021



SUN2000-3/4/5/6/8/10KTL-M1  
**Technical Specification**

| Technical Specification              | SUN2000<br>-3KTL-M1  | SUN2000<br>-4KTL-M1 | SUN2000<br>-5KTL-M1 | SUN2000<br>-6KTL-M1 | SUN2000<br>-8KTL-M1 | SUN2000<br>-10KTL-M1 |
|--------------------------------------|--|---------------------|---------------------|---------------------|---------------------|----------------------|
| Efficiency                           |  |                     |                     |                     |                     |                      |
| Max. efficiency                      | 98.2%  | 98.3%               | 98.4%               | 98.6%               | 98.6%               | 98.6%                |
| European weighted efficiency         | 96.7%  | 97.1%               | 97.5%               | 97.7%               | 98.0%               | 98.1%                |
| Input (PV)                           |  |                     |                     |                     |                     |                      |
| Recommended max. PV power            | 4,500 Wp   | 6,000 Wp            | 7,500 Wp            | 9,000 Wp            | 12,000 Wp           | 15,000 Wp            |
| Max. input voltage                   | 1100 V   |                     |                     |                     |                     |                      |
| Operating voltage range              | 140 V - 960 V  |                     |                     |                     |                     |                      |
| Start-up voltage                     | 200 V  |                     |                     |                     |                     |                      |
| Rated input voltage                  | 600 V  |                     |                     |                     |                     |                      |
| Max. input current per MPPT          | 11 A   |                     |                     |                     |                     |                      |
| Max. short-circuit current           | 15 A   |                     |                     |                     |                     |                      |
| Number of MPPT trackers              | 2  |                     |                     |                     |                     |                      |
| Max. input number per MPPT tracker   | 1  |                     |                     |                     |                     |                      |
| Input (DC Battery)                   |  |                     |                     |                     |                     |                      |
| Compatible Battery                   | HUAWEI Smart String ESS 5kWh - 30kWh   |                     |                     |                     |                     |                      |
| Operating voltage range              | 600 V - 960 V  |                     |                     |                     |                     |                      |
| Max operating current                | 16 A   |                     |                     |                     |                     |                      |
| Max charge Power                     | 10,000 W   |                     |                     |                     |                     |                      |
| Max discharge Power                  | 3,300 W  | 4,400 W             | 5,500 W             | 6,600 W             | 8,800 W             | 10,000 W             |
| Output (On Grid)                     |  |                     |                     |                     |                     |                      |
| Grid connection                      | Three phase  |                     |                     |                     |                     |                      |
| Rated output power                   | 3,000 W  | 4,000 W             | 5,000 W             | 6,000 W             | 8,000 W             | 10,000 W             |
| Max. apparent power                  | 3,300 VA   | 4,400 VA            | 5,500 VA            | 6,600 VA            | 8,800 VA            | 11,000 VA            |
| Rated output voltage                 | 220 Vac / 380 Vac, 230 Vac / 400 Vac, 3W / N+PE  |                     |                     |                     |                     |                      |
| Rated AC grid frequency              | 50 Hz / 60 Hz  |                     |                     |                     |                     |                      |
| Max. output current                  | 5.1 A  | 6.8 A               | 8.5 A               | 10.1 A              | 13.5 A              | 16.9 A               |
| Adjustable power factor              | 0.8 leading ... 0.8 lagging  |                     |                     |                     |                     |                      |
| Max. total harmonic distortion       | ≤ 3 %  |                     |                     |                     |                     |                      |
| Output (Off Grid)                    |  |                     |                     |                     |                     |                      |
| Backup Box                           | Backup Box - B1  |                     |                     |                     |                     |                      |
| Maximum apparent power               | 3,000 VA   | 3,300 VA            | 3,300 VA            | 3,300 VA            | 3,300 VA            | 3,300 VA             |
| Rated output voltage                 | 220 V / 230 V  |                     |                     |                     |                     |                      |
| Maximum output current               | 13.6 A   | 15 A                | 15 A                | 15 A                | 15 A                | 15 A                 |
| Power factor range                   | 0.8 leading ... 0.8 lagging  |                     |                     |                     |                     |                      |
| Features & Protections               |  |                     |                     |                     |                     |                      |
| Input-side disconnection device      | Yes  |                     |                     |                     |                     |                      |
| Anti-islanding protection            | Yes  |                     |                     |                     |                     |                      |
| DC reverse polarity protection       | Yes  |                     |                     |                     |                     |                      |
| Insulation monitoring                | Yes  |                     |                     |                     |                     |                      |
| DC surge protection                  | Yes, compatible with TYPE II protection class according to EN/IEC 61643-11                 |                     |                     |                     |                     |                      |
| AC surge protection                  | Yes, compatible with TYPE II protection class according to EN/IEC 61643-11                 |                     |                     |                     |                     |                      |
| Residual current monitoring          | Yes  |                     |                     |                     |                     |                      |
| AC overcurrent protection            | Yes  |                     |                     |                     |                     |                      |
| AC short-circuit protection          | Yes  |                     |                     |                     |                     |                      |
| AC overvoltage protection            | Yes  |                     |                     |                     |                     |                      |
| Arc fault protection                 | Yes  |                     |                     |                     |                     |                      |
| Ripple receiver control              | Yes  |                     |                     |                     |                     |                      |
| Integrated PID recovery <sup>1</sup> | Yes  |                     |                     |                     |                     |                      |
| Battery reverse charging from grid   | Yes  |                     |                     |                     |                     |                      |
| General Data                         |  |                     |                     |                     |                     |                      |
| Operating temperature range          | -25 ~ + 60 °C (-13 °F ~ 140 °F)  |                     |                     |                     |                     |                      |
| Relative operating humidity          | 0 %RH ~ 100 %RH  |                     |                     |                     |                     |                      |
| Operating altitude                   | 0 ~ 4,000 m (13,123 ft) (Derating above 2000 m)  |                     |                     |                     |                     |                      |
| Cooling                              | Natural convection   |                     |                     |                     |                     |                      |
| Display                              | LED indicators; Integrated WLAN + FusionSolar App  |                     |                     |                     |                     |                      |
| Communication                        | RS485, WLAN/Ethernet via Smart Dongle-WLAN fE; 4G / 3G / 2G via Smart Dongle-4G (Optional) |                     |                     |                     |                     |                      |
| Weight (incl. mounting bracket)      | 17 kg (37.5 lb)  |                     |                     |                     |                     |                      |
| Dimension (incl. mounting bracket)   | 525 x 470 x 146.5 mm (20.7 x 18.5 x 5.8 inch)  |                     |                     |                     |                     |                      |
| Degree of protection                 | IP65   |                     |                     |                     |                     |                      |
| Nighttime Power Consumption          | < 5.5 W <sup>2</sup>   |                     |                     |                     |                     |                      |
| Optimizer Compatibility              |  |                     |                     |                     |                     |                      |
| DC 150V compatible optimizer         | SUN2000-450W-P   |                     |                     |                     |                     |                      |

**Standard Compliance (more available upon request)**

|  |   |
|--|---|
| Certificate  | EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116   |
| Grid connection standards  | G98, G99, EN 50438, CEI 0-21, VDE-AR-N-4105, AS 4777, C10/11, A8NT, UTE C15-712, RD 1699, IOR D4, NRS 097-2-1, IEC61727, IEC62116, DEWA |
| <small><sup>1</sup> The maximum input PV power is 70,000 Wp when the voltage is 600 V and the current is 117 A with SUN2000-450W-P optimizer.<br/><sup>2</sup> The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage the inverter.<br/><sup>3</sup> Any DC input voltage beyond the operating voltage range may result in the inverter operating at C10/11 10,000 VA.<br/><sup>4</sup> SUN2000-3-10KTL-M1 is not compatible between PV and ground to avoid the through-bus and PID recovery function to reduce the risk of production from PID. Supported module types include: P-type (mono, poly).<br/><sup>5</sup> &lt; 10 V when PID recovery function is activated.</small> |   |
| Version No. 04-13021005  | SOLAR.HUAWEI.COM/EN/  |

RCS  
25 APR 2025  
PLANNING SECTION

# ERS-2/4 Series

Rapid shutdown switch (fire safety switch) 光伏用消防安全开关



## Product features - 产品特点



- Max shut down one or two strings modules
- Maximum circuit current 55A
- Maximum circuit voltage 1500Vdc
- CE certificated
- PC + ABS material, IP66 protection grade
- Multi clock interface type optional (knockout hole / gland / MC4 terminal)
- The Isolation switches are TUV CE CB, SAA certificated
- Waterproof Vent valve to avoid condensation inside the shell
- Advanced temperature sensor is used to detect the highest temperature in the shell in real time temperature, when the internal temperature exceeds 70 degrees, automatic cut-off switch
- It is suitable for residential, industrial and commercial photovoltaic systems

- 最多关闭1串2串组件
- 最大电路电流55A
- 最大回路电压1500Vdc
- 符合CE标准
- PC + ABS材质, IP66防护等级
- 多种接口类型可选 (敲落孔/格兰头/MC4端子)
- 隔离开关符合TUV CE CB SAA认证
- 配置泄压排气阀, 避免壳体内部凝露
- 采用先进温度传感器, 实时检测壳体内部最高环境温度, 当内部温度超过70度, 自动切断开关
- 适用于户用工商业等各类光伏系统

| Product naming |    |   |   |       |
|----------------|----|---|---|-------|
| E              | RS | □ | - | □ - □ |
| 1              | 2  | 3 |   | 4 5   |

| Code | Name                   | Description                                    |
|------|------------------------|--|
| 1    | ASwiche brand          | E  |
| 2    | Rapid Shut-down Switch | RS   |
| 3    | Rated Current          | 13 13A 20 20A 25 25A 40 40A 50 50A             |
| 4    | Pole                   | 2 2P 4 4P 4B                                   |
| 5    | Wiring                 | W: Cable Connector / Mc4, MC4 terminal / Blank |

**ASwiche** | Safety Is On



Gorthaganny Group Water Scheme,

Gorthaganny,

Co. Roscommon

14/04/2025

**Re: Application for Declaration of Exemption for Solar PV Array for Gorthaganny group water scheme Co-op society.**

A Chara,

In accordance with the SEA of the Planning and Development Act 2000 (Exempted Development) (No. 3) Regulations 2022 and the Planning and Development (Solar Safeguarding Zone) Regulations 2022, we, Gorthaganny Group Water Scheme Co-op society wish to apply for a Declaration of Exemption for the attached specification for a Solar PV Array.

I wish to draw your attention, in particular to section 1.9 of the regulations (the link is as follows: [solar-panels-exempted-development-regulations-sea-statement.pdf](#)).

*'The Regulations (also) amend existing or set out new criteria for exempted development. For example, the height of any free-standing solar PV or solar thermal collector installations in the curtilage of a house / industrial building / business premises / light industrial building / agricultural structure must not exceed 2.5 metres above ground level or 25 square metres in area for houses and 75 square metres in area for industrial buildings, business premises, light industrial buildings and agricultural structures. The same height criteria for free-standing solar PV or solar thermal collector installations applies to educational / community / sports / healthcare / religious / library buildings, gas / electricity / telecommunications / water supplies and wastewater services sites. i.e. a maximum of 2.5 metres above ground level and 75 square metres in total area. Free-standing solar panel installations are not exempted development for apartment buildings'.*

In section 1.17, it states

*'The exemptions for all classes (with the exception of houses) only apply where the installation relates 'primarily' to the provision of electricity or heating for use within the curtilage of the building or site'.*

*Note: The discrepancy between the spelling of 'Gorthaganny is due to the fact that the older maps spell the townland with a 'h', where all other recent documents do not.*

In support of this application, in addition to this letter, please find attached:

1:500 Site Layout Plan x 6

1:2500 Site Location Map x 5

6" Location Map x 1

Photographic Report x 1.

For any queries regarding this application, please contact [REDACTED] Gorthaganny, Co. Roscommon. Or email at: [REDACTED] or [Gorthagannygws@gmail.com](mailto:Gorthagannygws@gmail.com)

Yours sincerely,

Eve Hughes (Agent on behalf of the applicants)

**Gorthaganny group water scheme Co-op society**

**14.04.2025**

Proposal to install Exempt Development – Solar PV Panels not exceeding 75 sq. m. in area and not exceeding 2.5m in height.

**Photographic Report**



View for site from roadway, looking South. Proposed Solar PV to be located wholly within the site.



RCS  
25 APR 2025  
PLANNING SECTION



Existing Group Water Scheme pumping station currently has grid connection.

The proposed Solar PV array – ground mounted, will be wholly for self-consumption, to power the pumping station for the local water supply.



The existing site is not prone to flooding



The existing site is currently accessed by a single entrance site which complies with Roscommon County Development Plan.





The roadway is elevated, and the site is bounded by an existing stone wall.



The proposed Solar array will be ground mounted, sitting well below the level of the adjacent local road., behind the stone wall. See site Layout attached.



As the site falls away from the boundary wall, the proposed Solar PV array will not interfere with the current visual amenity.

The site is owned by Gortaganny Group Water Scheme.



The proposed Solar PV panels will occupy an area of less than 75 sq.m.



All associated cables will be carried underground to the pumping station.

The c. 30 No. Jinko 520W panels (or similar) will total approx. 15.6kWp system.

The dimensions of such a system are 17m x 3.2m., giving a total area of 54.4 sq.m. falling well below the 75sq.m. exempt development limit.



The addition of the Solar PV array has the capabilities to produce all electricity required to run the pumping station, which will include battery storage. The batteries will be housed within the pumping station.

It is envisaged that this will meet 100% of the electricity needs of the Group Water Scheme throughout the year, thus mitigating their grid dependency.

By generating their own electricity, the financial benefits for the Group Water Scheme are enormous. The estimated pay-back time for this project is just 2 years. Currently, their annual electricity costs are in excess of [REDACTED]. Therefore, this project will have a huge financial benefit for the Group Water Scheme.



The proposed system will include battery storage. The batteries will be housed in the existing pumping station.

All electricity generated will be consumed within the curtilage of the site.





The site is currently well maintained and managed by the Group Water Scheme committee.

After installation, the site will be made good, and returned to its current well-maintained state.

No other ancillary site works will interfere with the visual amenity of the site/area.



Group Water Scheme Committee will continue to protect, maintain, and where possible enhance the existing biodiversity of the site, maintaining wildlife and minimising fragmentation of the areas.





GORTAGANNY,  
Co. ROSCOMMON

SITE OUTLINED IN RED  
AREA = 0.123 HECTARES  
TOTAL LANDHOLDINGS  
MARKED BLUE = 0.123Ha

ERRIT LOUGH

Existing  
Hardstand  
Area

Ditchline

Shoreline

Ditchline

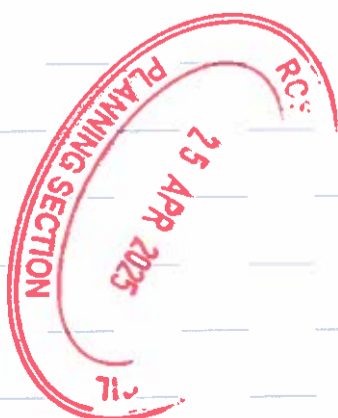
Existing 100mm dia Watermain

EXISTING VEHICULAR  
ENTRANCE  
COMPLIES WITH  
COUNTY DEVELOPMENT  
PLAN  
VEHICULAR ACCESS  
TO SITE  
RESTRICTED TO ONE POINT  
WITH SPLAYED WING WALLS

Existing ESB Pole  
Grass verge 1m Wide  
Stone Wall (0.750m Wide)

Pumping Station and ancillary  
works

Proposed Solar Panels to be  
installed, to power the Group  
Water Scheme pumping station  
Proposed Solar Panels to  
occupy less than 75 square  
metres and are no higher than  
2.5 square metres.



CLIENT GORTAGANNY GROUP WATER SCHEME  
PROJECT Proposed Exempt Development consisting of the  
installation of c. 17kWp PV Ground Mounted  
Solar array covering no more than 75sq.m. and  
not exceeding a height of 2.5m and associated  
site works.

DRAWING PROPOSED SITE LAYOUT

SCALE 1:500 DATE: 30/3/25 DWG. No. EH.P1141 01



GORTAGANNY,  
Co. ROSCOMMON

SITE OUTLINED IN RED  
AREA = 0.123 HECTARES  
TOTAL LANDHOLDINGS  
MARKED BLUE = 0.123Ha

Existing 100mm dia Watermain  
EXISTING VEHICULAR  
ENTRANCE  
COMPLIES WITH  
COUNTY DEVELOPMENT  
PLAN  
VEHICULAR ACCESS  
TO SITE  
RESTRICTED TO ONE POINT  
WITH SPLAYED WING WALLS

Existing ESB Pole  
Grass verge 1m Wide  
Stone Wall (0.750m Wide)

Pumping Station and ancillary  
works

Proposed Solar Panels to be  
installed, to power the Group  
Water Scheme pumping station  
Proposed Solar Panels to  
occupy less than 75 square  
metres and are no higher than  
2.5 square metres.

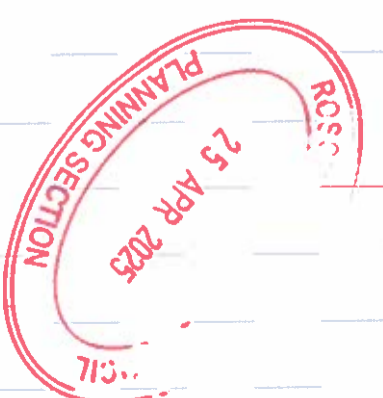
ERRIT LOUGH

Existing  
Hardstand  
Area

Ditchline

Shoreline

Ditchline



CLIENT GORTAGANNY GROUP WATER SCHEME  
PROJECT Proposed Exempt Development consisting of the  
installation of c. 17kWp PV Ground Mounted  
Solar array covering no more than 75sq.m. and  
not exceeding a height of 2.5m and associated  
site works.

DRAWING PROPOSED SITE LAYOUT

SCALE 1:500 DATE: 30/3/25 DWG. No. EH P1141 01



GORTAGANNY,  
Co. ROSCOMMON

SITE OUTLINED IN RED  
AREA = 0.123 HECTARES  
TOTAL LANDHOLDINGS  
MARKED BLUE = 0.123Ha

Existing 100mm dia Watermain

EXISTING VEHICULAR  
ENTRANCE  
COMPLIES WITH  
COUNTY DEVELOPMENT  
PLAN  
VEHICULAR ACCESS  
TO SITE  
RESTRICTED TO ONE POINT  
WITH SPLAYED WING WALLS

Existing  
Hardstand  
Area

Ditchline

Existing ESB Pole

Grass verge 1m Wide

Stone Wall (0.750m Wide)

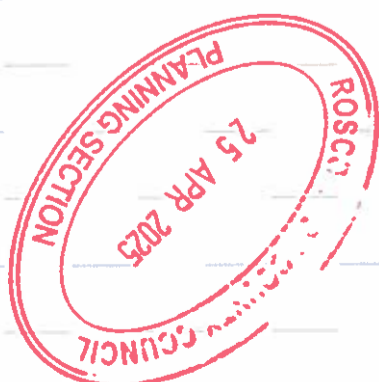
Pumping Station and ancillary  
works

Proposed Solar Panels to be  
installed, to power the Group  
Water Scheme pumping station  
Proposed Solar Panels to  
occupy less than 75 square  
metres and are no higher than  
2.5 square metres.

ERRIT LOUGH

Shoreline

Ditchline



CLIENT GORTAGANNY GROUP WATER SCHEME  
PROJECT Proposed Exempt Development consisting of the  
installation of c. 17kWp PV Ground Mounted  
Solar array covering no more than 75sq.m. and  
not exceeding a height of 2.5m and associated  
site works.

DRAWING PROPOSED SITE LAYOUT

SCALE 1:500 DATE: 30/3/25 DWG. No. EH/P1141 01



GORTAGANNY,  
Co. ROSCOMMON

SITE OUTLINED IN RED  
AREA = 0.123 HECTARES  
TOTAL LANDHOLDINGS  
MARKED BLUE = 0.123Ha

ERRIT LOUGH

Existing  
Hardstand  
Area

Ditchline

Shoreline

Ditchline

Existing 100mm dia Watermain

EXISTING VEHICULAR  
ENTRANCE  
COMPLIES WITH  
COUNTY DEVELOPMENT  
PLAN  
VEHICULAR ACCESS  
TO SITE  
RESTRICTED TO ONE POINT  
WITH SPLAYED WING WALLS

Existing ESB Pole

Grass verge 1m Wide

Stone Wall (0.750m Wide)

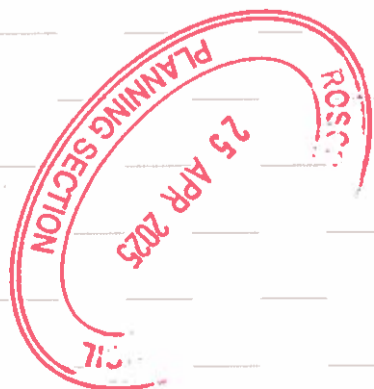
Pumping Station and ancillary  
works

Proposed Solar Panels to be  
installed, to power the Group  
Water Scheme pumping station  
Proposed Solar Panels to  
occupy less than 75 square  
metres and are no higher than  
2.5 square metres.

CLIENT GORTAGANNY GROUP WATER SCHEME  
PROJECT Proposed Exempt Development consisting of the  
installation of c. 17kWp PV Ground Mounted  
Solar array covering no more than 75sq.m. and  
not exceeding a height of 2.5m and associated  
site works.

DRAWING PROPOSED SITE LAYOUT

SCALE 1:500 DATE: 30/3/25 DWG. No. EH\_P1141 01





GORTAGANNY,  
Co. ROSCOMMON

SITE OUTLINED IN RED  
AREA = 0.123 HECTARES  
TOTAL LANDHOLDINGS  
MARKED BLUE = 0.123Ha

ERRIT LOUGH

Existing  
Hardstand  
Area

Ditchline

Shoreline

Ditchline

Existing 100mm dia Watermain

EXISTING VEHICULAR  
ENTRANCE  
COMPLIES WITH  
COUNTY DEVELOPMENT  
PLAN  
VEHICULAR ACCESS  
TO SITE  
RESTRICTED TO ONE POINT  
WITH SPLAYED WING WALLS

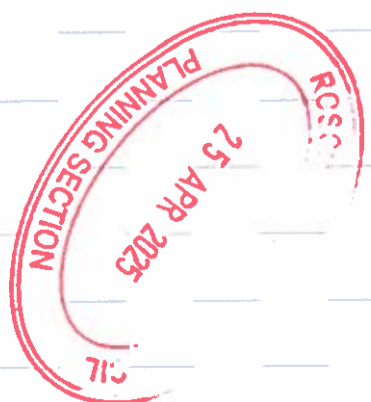
Existing ESB Pole

Grass verge 1m Wide

Stone Wall (0.750m Wide)

Pumping Station and ancillary  
works

Proposed Solar Panels to be  
installed, to power the Group  
Water Scheme pumping station  
Proposed Solar Panels to  
occupy less than 75 square  
metres and are no higher than  
2.5 square metres.



CLIENT GORTAGANNY GROUP WATER SCHEME  
PROJECT Proposed Exempt Development consisting of the  
installation of c. 17kWp PV Ground Mounted  
Solar array covering no more than 75sq.m. and  
not exceeding a height of 2.5m and associated  
site works.

DRAWING PROPOSED SITE LAYOUT

SCALE 1:500 DATE: 30/3/25 DWG. No. EH/P1141 01



GORTAGANNY,  
Co. ROSCOMMON

SITE OUTLINED IN RED  
AREA = 0.123 HECTARES  
TOTAL LANDHOLDINGS  
MARKED BLUE = 0.123Ha

ERRIT LOUGH

Existing  
Hardstand  
Area

Ditchline

Shoreline

Ditchline

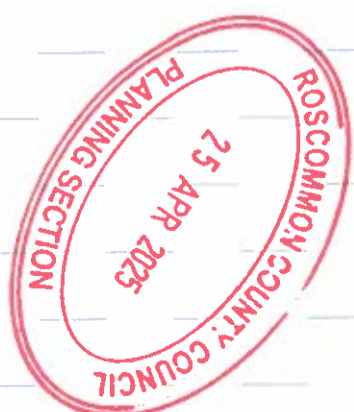
Existing 100mm dia Watermain

EXISTING VEHICULAR  
ENTRANCE  
COMPLIES WITH  
COUNTY DEVELOPMENT  
PLAN  
VEHICULAR ACCESS  
TO SITE  
RESTRICTED TO ONE POINT  
WITH SPLAYED WING WALLS

Existing ESB Pole  
Grass verge 1m Wide  
Stone Wall (0.750m Wide)

Pumping Station and ancillary  
works

Proposed Solar Panels to be  
installed, to power the Group  
Water Scheme pumping station  
Proposed Solar Panels to  
occupy less than 75 square  
metres and are no higher than  
2.5 square metres.



CLIENT GORTAGANNY GROUP WATER SCHEME  
PROJECT Proposed Exempt Development consisting of the  
installation of c. 17kWp PV Ground Mounted  
Solar array covering no more than 75sq.m. and  
not exceeding a height of 2.5m and associated  
site works.

DRAWING PROPOSED SITE LAYOUT

SCALE 1:500 DATE: 30/3/25 DWG. No. EH P1141 01

**Tailte Éireann**

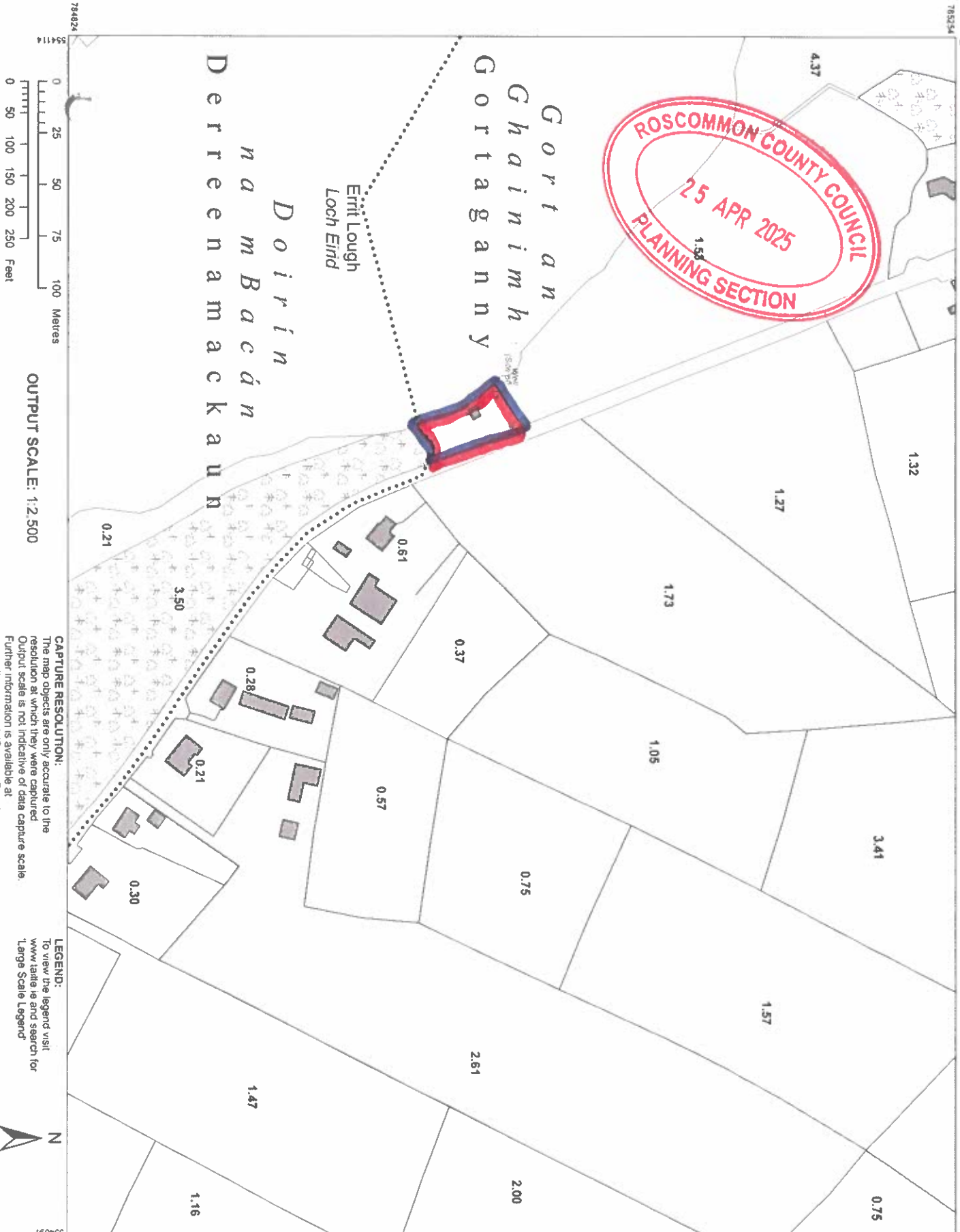
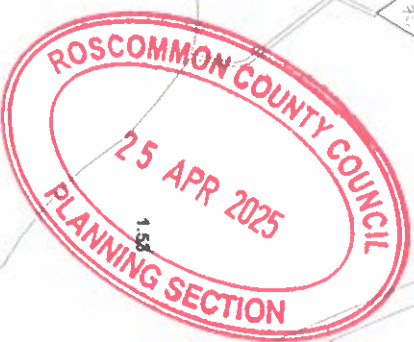


# Planning Pack Map

SITE OUTLINED IN RED  
TOTAL LANDHOLDING MARKED BLUE



**Tailte  
Éireann**



OUTPUT SCALE: 1:2,500

## CAPTURE RESOLUTION:

The map objects are only accurate to the resolution at which they were captured. Output scale is not indicative of data capture scale. Further information is available at [www.tailte.ie](http://www.tailte.ie), search 'Capture Resolution'.

## LEGEND:

To view the legend visit [www.tailte.ie](http://www.tailte.ie) and search for 'Large Scale Legend'.



## COMPILED AND PUBLISHED BY:

Tailte Éireann,  
Phoenix Park,  
Dublin 8,  
Ireland.  
D08F6E4

[www.tailte.ie](http://www.tailte.ie)

Any unauthorised reproduction infringes Tailte Éireann copyright.

No part of this publication may be copied, reproduced or transmitted in any form or by any means without the prior written permission of the copyright owner.

The representation on this map of a road, track or footpath is not evidence of the existence of a right of way.

This topographic map does not show legal property boundaries, nor does it show ownership of physical features.

©Tailte Éireann, 2025.  
All rights reserved.

Planning Pack Map *SITE OUTLINED IN RED*  
*TOTAL LANDHOLDING MARKED BLUE*



**Tailte Éireann**

**CENTRE COORDINATES:**  
ITM 554406.785039

**PUBLISHED:** 25/03/2025 **ORDER NO.:** 50456523\_1

**MAP SERIES:** 1:5,000 **MAP SHEETS:** 2092

**COMPILED AND PUBLISHED BY:**  
Tailte Éireann,  
Phoenix Park,  
Dublin 8,  
Ireland.  
D08F6E4

[www.tailte.ie](http://www.tailte.ie)

Any unauthorised reproduction infringes Tailte Éireann copyright.  
No part of this publication may be copied, reproduced or transmitted in any form or by any means without the prior written permission of the copyright owner.

The representation on this map of a road, track or footpath is not evidence of the existence of a right of way.

This topographic map does not show legal property boundaries, nor does it show ownership of physical features

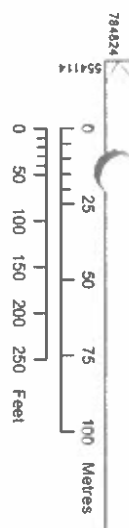
©Tailte Éireann, 2025.  
All rights reserved.



Gortan  
Ghainimh  
Gortaganny

Erril Lough  
Loch Eirid

Doirín  
na mBacán  
Dereenamaccaun



OUTPUT SCALE: 1:2,500

**CAPTURE RESOLUTION:**  
The map objects are only accurate to the resolution at which they were captured.  
Output scale is not indicative of data capture scale.  
Further information is available at:  
[www.tailte.ie](http://www.tailte.ie), search 'Capture Resolution'

**LEGEND:**  
To view the legend visit  
[www.tailte.ie](http://www.tailte.ie) and search for  
'Large Scale Legend'

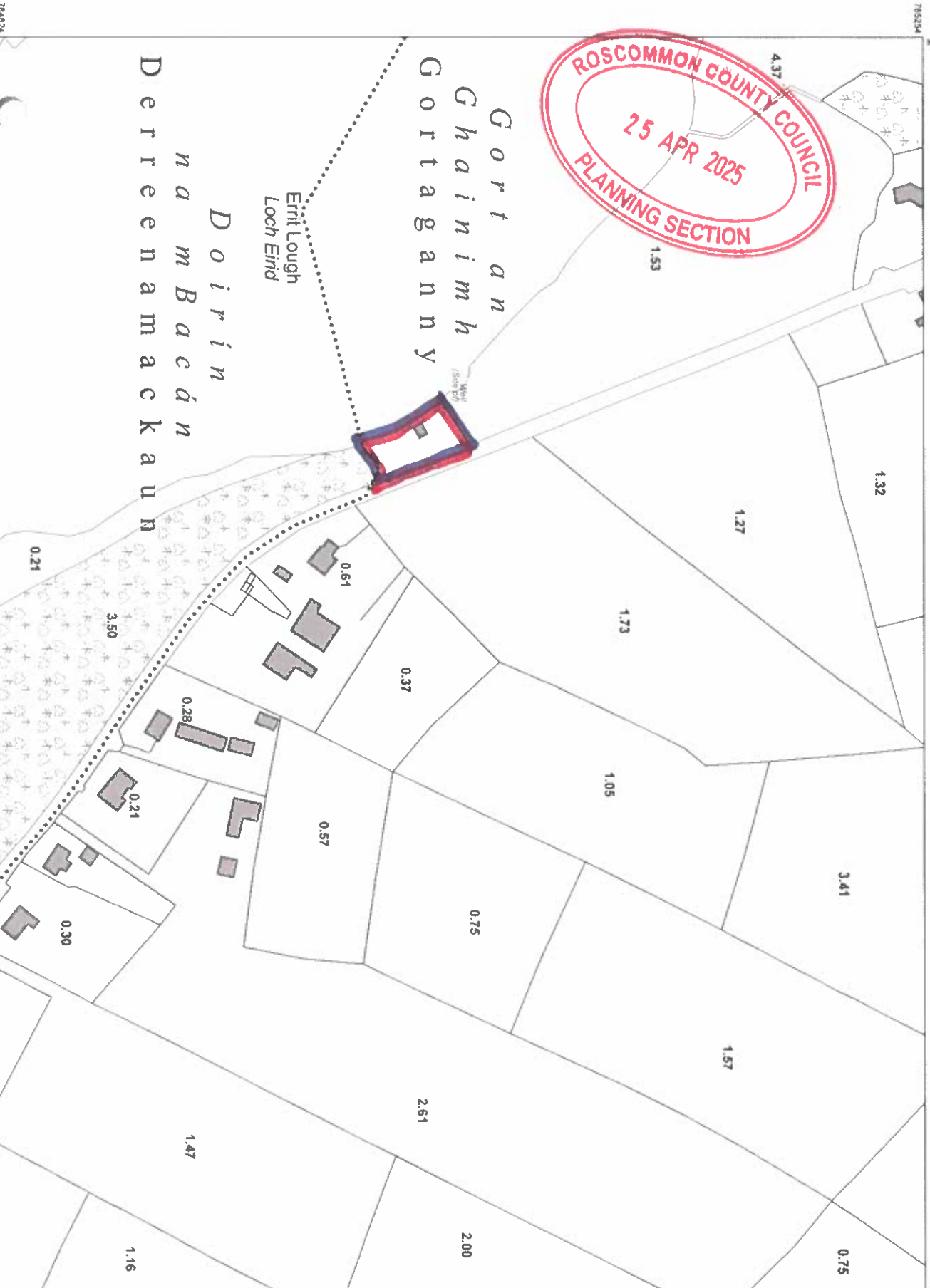
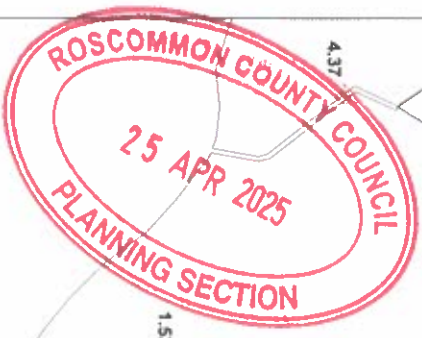


# Planning Pack Map

SITE OUTLINES IN KEY  
TOTAL LANDHOLDING MARKED BLUE



**Tailte  
Éireann**



**CENTRE  
COORDINATES:**  
ITM 554406, 785039  
**PUBLISHED:** 25/03/2025  
**ORDER NO.:** 50456523\_1  
**MAP SERIES:** 1:5,000  
**MAP SHEETS:** 2092

**COMPILED AND PUBLISHED BY:**  
Tailte Éireann,  
Phoenix Park,  
Dublin 8,  
Ireland.  
D08F6E4

[www.tailte.ie](http://www.tailte.ie)

Any unauthorised reproduction infringes Tailte Éireann copyright.  
No part of this publication may be copied, reproduced or transmitted in any form or by any means without the prior written permission of the copyright owner.

The representation on this map of a road, track or footpath is not evidence of the existence of a right of way.

This topographic map does not show legal property boundaries, nor does it show ownership of physical features.

©Tailte Éireann, 2025.  
All rights reserved.

**CAPTURE RESOLUTION:**  
The map objects are only accurate to the resolution at which they were captured. Output scale is not indicative of data capture scale. Further information is available at [www.tailte.ie](http://www.tailte.ie), search 'Capture Resolution'.

**LEGEND:**  
To view the legend visit [www.tailte.ie](http://www.tailte.ie) and search for 'Large Scale Legend'.



# Planning Pack Map

SITE LINDER IN RED  
TOTAL LANDHOLDING MARKED BLUE



**Taite  
Éireann**

**CENTRE  
COORDINATES:**  
ITM 554406, 785039

**PUBLISHED:** 25/03/2025  
**ORDER NO.:** 50456523\_1

**MAP SERIES:** 1:5,000  
**MAP SHEETS:** 2092

## COMPILED AND PUBLISHED BY:

Taite Éireann,  
Phoenix Park,  
Dublin 8,  
Ireland.  
D08F6E4

[www.taite.ie](http://www.taite.ie)

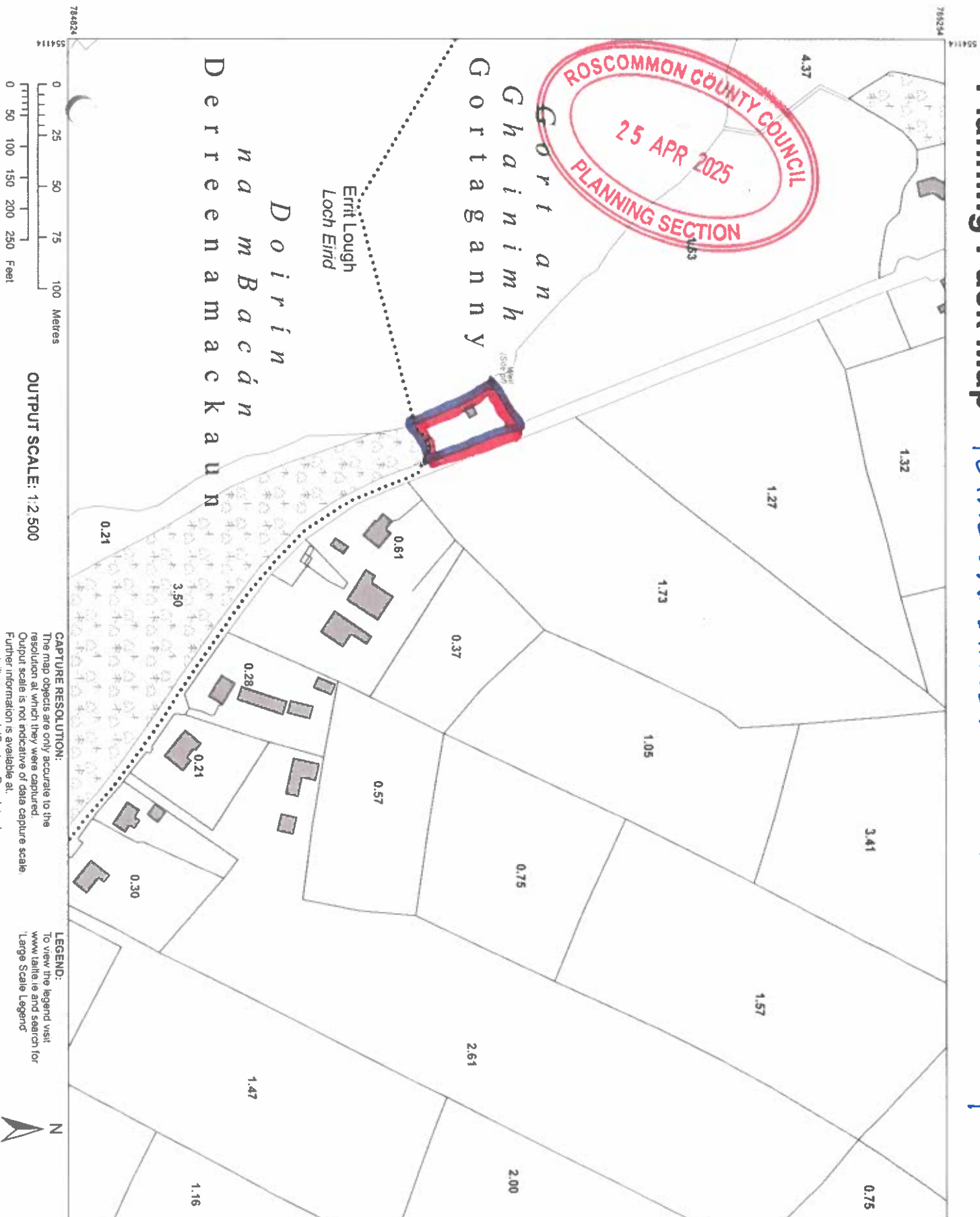
Any unauthorised reproduction  
infringes Taite Éireann copyright.

No part of this publication may  
be copied, reproduced or transmitted  
in any form or by any means without  
the prior written permission of the  
copyright owner.

The representation on this map  
of a road, track or footpath  
is not evidence of the existence  
of a right of way.

This topographic map  
does not show  
legal property boundaries,  
nor does it show  
ownership of physical features.

©Taite Éireann, 2025.  
All rights reserved.



OUTPUT SCALE: 1:2,500

## CAPTURE RESOLUTION:

The map objects are only accurate to the  
resolution at which they were captured.  
Output scale is not indicative of data capture scale.  
Further information is available at  
[www.taite.ie](http://www.taite.ie), search 'Capture Resolution'.

## LEGEND:

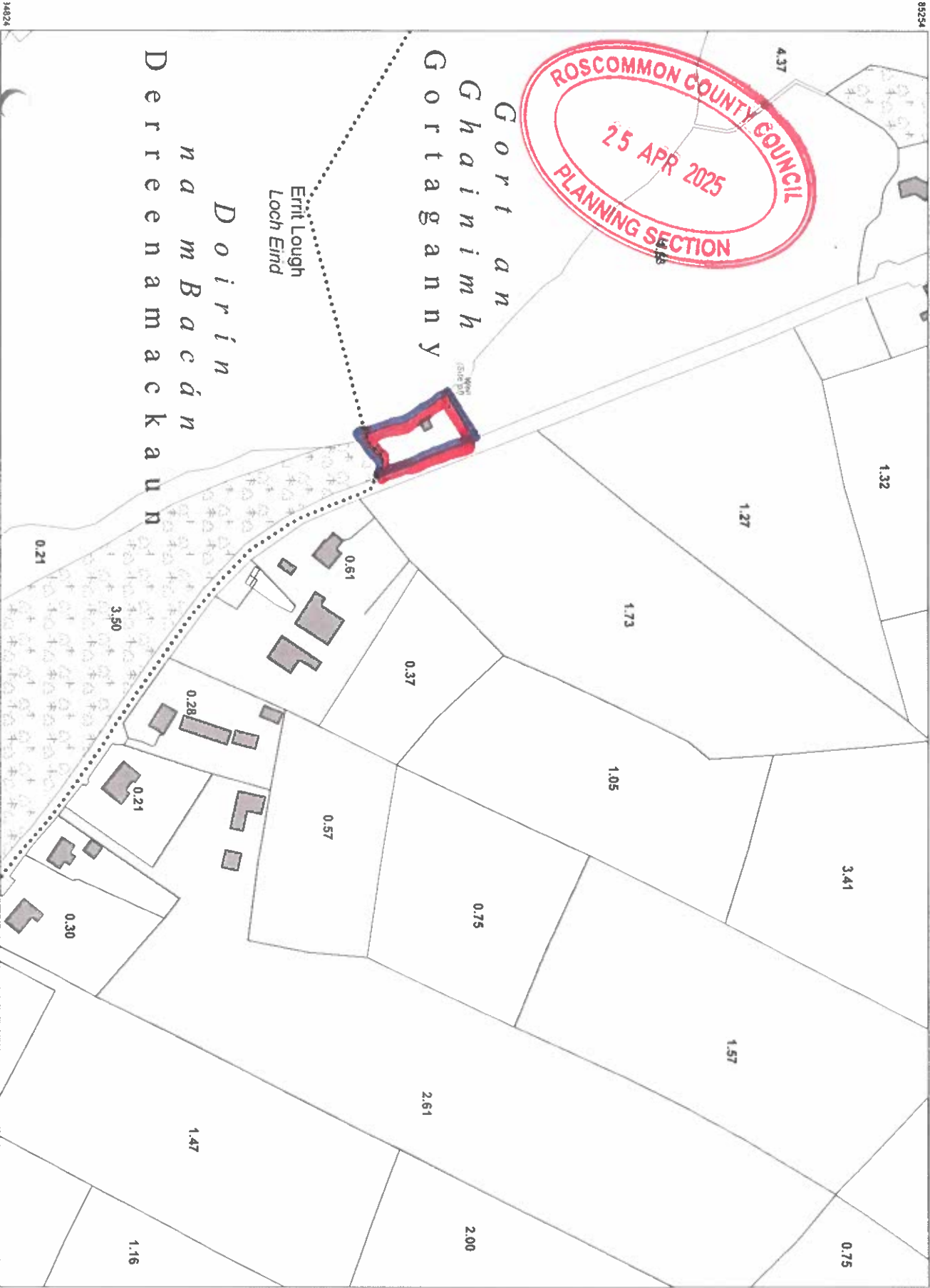
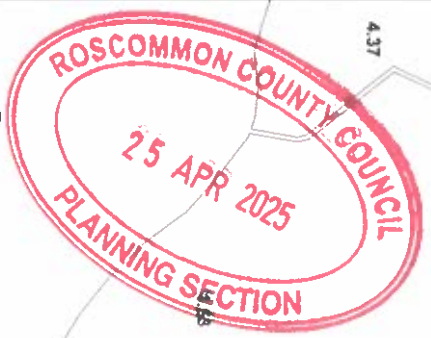
To view the legend visit  
[www.taite.ie](http://www.taite.ie) and search for  
'Large Scale Legend'.

# Planning Pack Map

SITE OUTLINED IN RED  
TOTAL LANDHOLDING MARKED BLUE.



**Taite**  
**Eireann**



**CENTRE COORDINATES:**  
ITM 554406.785039

**PUBLISHED:** 25/03/2025  
**ORDER NO.:** 50456523\_1

**MAP SERIES:** 1:5,000  
**MAP SHEETS:** 2092

**COMPILED AND PUBLISHED BY:**  
Taite Eireann,  
Phoenix Park,  
Dublin 8,  
Ireland  
D08F6E4

[www.taite.ie](http://www.taite.ie)

Any unauthorised reproduction infringes Taite Eireann copyright.

No part of this publication may be copied, reproduced or transmitted in any form or by any means without the prior written permission of the copyright owner.

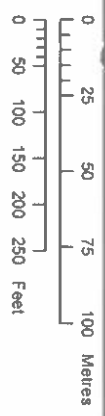
The representation on this map of a road, track or footpath is not evidence of the existence of a right of way.

This topographic map does not show legal property boundaries, nor does it show ownership of physical features.

©Taite Eireann, 2025.  
All rights reserved.

**CAPTURE RESOLUTION:**  
The map objects are only accurate to the resolution at which they were captured. Output scale is not indicative of data capture scale. Further information is available at [www.taite.ie](http://www.taite.ie), search "Capture Resolution".

**LEGEND:**  
To view the legend visit [www.taite.ie](http://www.taite.ie) and search for "Large Scale Legend".



**OUTPUT SCALE:** 1:2 500



JFW Renewables Ltd.,  
Old Galway Rd.,  
Loughrea,  
Co. Galway  
H62 TK76  
091-470928

Technical Rep: [REDACTED]

Sales Rep: [REDACTED]

DATE: 23.07.2024

**Gortaganny GWS 15.6kwp Solar PV**

30no Jinko 520w solar panels  
1no Bespoke ground mount system(concrete pad by others)  
1no Huawei 10ktl three-phase inverter  
1no DC cabling & isolators  
1no AC cabling & isolators  
1no Shunt safety switch  
Electrical protective devices as required  
1no three-phase power meter  
Cable containment, where required.  
Earthing & Bonding where required  
Monitoring app/software  
Testing & Certification

Gas [REDACTED]

SEAI ND MG Grant of [REDACTED] available on this installation

Neticose [REDACTED]

**Open Solar Proposal:** The open solar proposal which you should have received, details the expected generation from the system and shows expected payback times and prospective amounts that may be exported etc. These figures should be quite accurate.

**Lead Time:** From receipt of deposit to installation completion is usually 4-6 weeks, depending on time of year. If an NC7 application is required, then that will be your lead time.

**Proposed Site Team:** Upon receipt of the deposit we will give the details of the proposed installers including any/all relevant qualifications and insurance/method statements etc.

**Maintenance:** Solar panels do not require any routine maintenance. In a prolonged dry spell, they may occasionally need to be hosed down to clear any dust.

**Technical Support:** JFW Renewables provide technical support during business hours and we have dedicated technical support staff both in the office and on the road

**Paperwork:** All grant and ESB network paperwork is taken care of by JFW Renewables

**Financial integrity:** JFW Renewables will provide relevant tax clearance paperwork before any order is placed.

**ESB application:** This installation requires a free NC6 application to ESB Networks



15.6 kW  
System Size

Estimated Annual  
Electricity Bill Savings

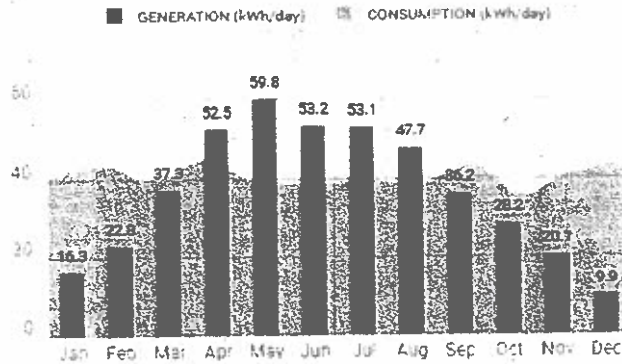
Net System Price  
excluding tax

Estimated Annual Solar  
Generation

kWh

## System Performance

89%  
Energy From Solar  
Daily Energy Profile



66%  
Self-consumption

34%  
Export to grid

## Net Financial Impact

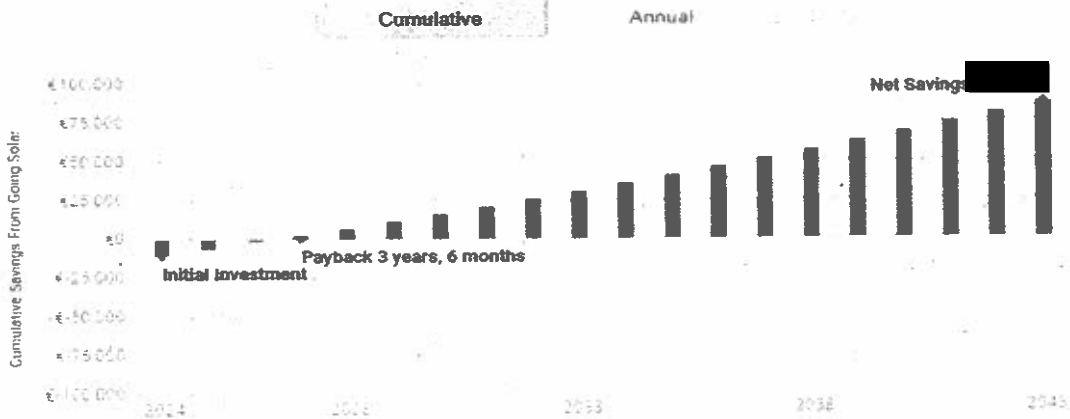
Simple Financials

Detailed Financials

Utility Bill Savings

Net System Cost

Estimated Net Savings



www.jinkosolar.com



# Tiger Neo N-type 54HL4R-BDV 420-440 Watt

BIFACIAL MODULE WITH  
DUAL GLASS

N-Type

Positive power tolerance of 0~+3%

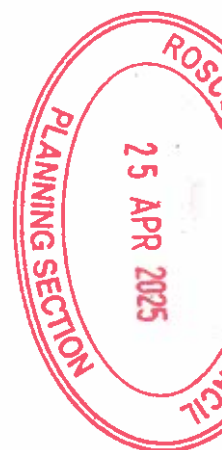
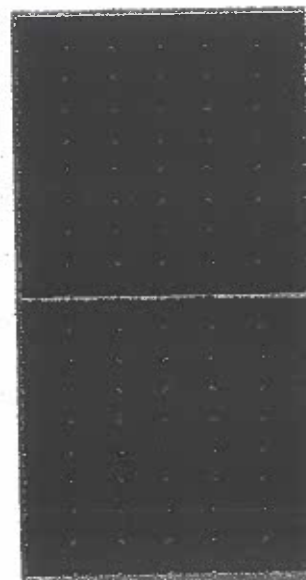
IEC61215(2016), IEC61730(2016)

ISO9001:2015 Quality Management System

ISO14001:2015 Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### SMBS Technology

Better light trapping and current collection to improve module power output and reliability.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LetID.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Enhanced Mechanical Load

Certified to withstand wind load (4000 Pascal) and snow load (4000 Pascal).

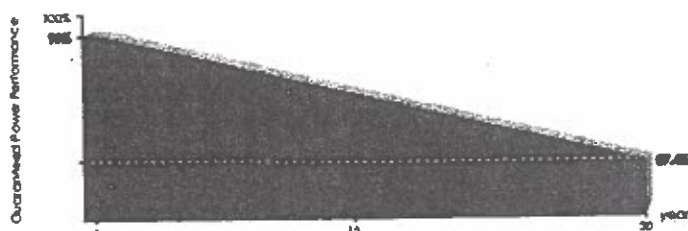


### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



## LINEAR PERFORMANCE WARRANTY



25 Year Product Warranty is valid for JFW Renewable Only

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

# Smart Energy Controller



## Active Safety

AI Powered  
Active Arcing Protection



## Higher Yields

Up to 30% More Energy  
with Optimizer<sup>1</sup>



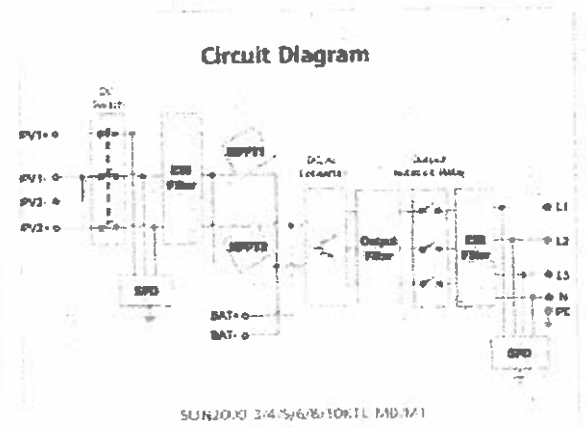
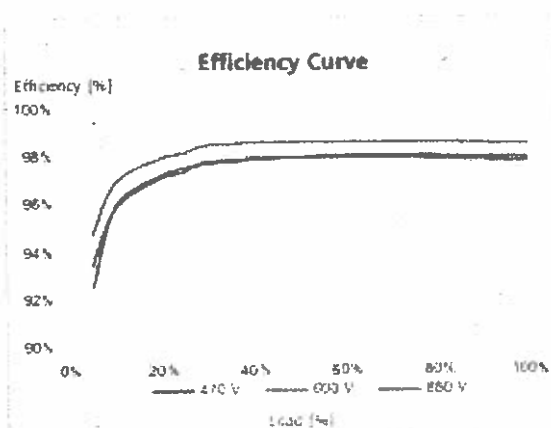
## Battery Ready

Plug & Play battery interface<sup>2</sup>

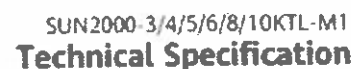


## Flexible Communication

WLAN, Fast Ethernet, 4G  
Communication Supported



<sup>1</sup> Only applicable to Huawei SmartSolar optimizers.  
<sup>2</sup> SUN2000 3-4-5y/6-10kTL MD-121 supports up to 48V battery voltage.



**Standard Compliance** (more available upon request)

Certificate

Serial Number: 62109  
EXNREC 62109 1 ENNREC 62109 2 IEC 6211E

Grid connection standards G98, G99, EN 50438, CEI 0 21 VDE AR N 4105, AS 4777 C101B, ABNT, IFE C15 712 RD 1689 TOP DA, NRS 097 2 5  
IEC62117, IEC62116, DEWA

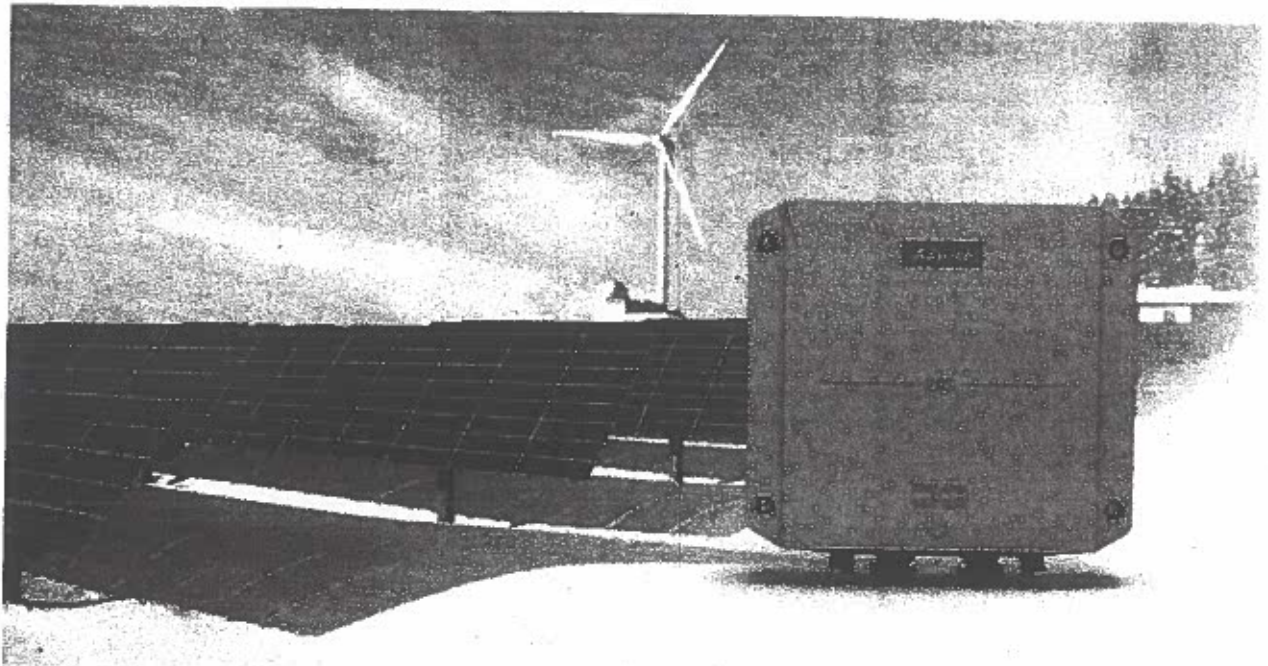
1. The user must follow EN 50438 & 50439 standards, as well as design and construction standards for power distribution systems.  
2. The user must follow the standards for safety and health, such as EN 60950-1, EN 60950-2, EN 60950-3, EN 60950-4, EN 60950-5, EN 60950-6, EN 60950-7, EN 60950-8, EN 60950-9, EN 60950-10, EN 60950-11, EN 60950-12, EN 60950-13, EN 60950-14, EN 60950-15, EN 60950-16, EN 60950-17, EN 60950-18, EN 60950-19, EN 60950-20, EN 60950-21, EN 60950-22, EN 60950-23, EN 60950-24, EN 60950-25, EN 60950-26, EN 60950-27, EN 60950-28, EN 60950-29, EN 60950-30, EN 60950-31, EN 60950-32, EN 60950-33, EN 60950-34, EN 60950-35, EN 60950-36, EN 60950-37, EN 60950-38, EN 60950-39, EN 60950-40, EN 60950-41, EN 60950-42, EN 60950-43, EN 60950-44, EN 60950-45, EN 60950-46, EN 60950-47, EN 60950-48, EN 60950-49, EN 60950-50, EN 60950-51, EN 60950-52, EN 60950-53, EN 60950-54, EN 60950-55, EN 60950-56, EN 60950-57, EN 60950-58, EN 60950-59, EN 60950-60, EN 60950-61, EN 60950-62, EN 60950-63, EN 60950-64, EN 60950-65, EN 60950-66, EN 60950-67, EN 60950-68, EN 60950-69, EN 60950-70, EN 60950-71, EN 60950-72, EN 60950-73, EN 60950-74, EN 60950-75, EN 60950-76, EN 60950-77, EN 60950-78, EN 60950-79, EN 60950-80, EN 60950-81, EN 60950-82, EN 60950-83, EN 60950-84, EN 60950-85, EN 60950-86, EN 60950-87, EN 60950-88, EN 60950-89, EN 60950-90, EN 60950-91, EN 60950-92, EN 60950-93, EN 60950-94, EN 60950-95, EN 60950-96, EN 60950-97, EN 60950-98, EN 60950-99, EN 60950-100.

SOLAR HUANUCO COM S.A.S.



# ERS-2/4 Series

Rapid shutdown switch (fire safety switch) 光伏用消防安全开关



## Product features 产品特点



- Max shut down one or two strings modules
- Maximum circuit current 55A
- Maximum circuit voltage 1500Vdc
- CE certificated
- PC + ABS material, IP66 protection grade
- Multi clock interface type optional (knockout hole / gland / MC4 terminal)
- The isolation switches are TUV CE CB 5AA certificated
- Waterproof Vent valve to avoid condensation inside the shell
- Advanced temperature sensor is used to detect the highest temperature in the shell in real time temperature, when the internal temperature exceeds 70 degrees, automatic cut-off switch
- It is suitable for residential, industrial and commercial photovoltaic systems

- 最多关闭1串2串组件
- 最大回路电流55A
- 最大回路电压1500Vdc
- 符合CE标准
- PC+ABS材质, IP66防护等级
- 多种接口类型可选 (敲孔/胶管/MC4端子)
- 隔离开关符合TUV CE CB 5AA认证
- 配置防水透气阀, 避免壳体内潮湿
- 采用先进温度传感器, 实时检测壳体内最高环境温度, 当内部温度超过70度, 自动切断开关
- 适用于户用、工商业等各类光伏系统

PRODUCT CODE

E RS □ - □ - □  
1 2 3 4 5

| Code | Feature       | Description                               |
|------|---------------|---|
| 1    | Material      | ABS+PC                                    |
| 2    | Rated Current | 13A 20A 25A 40A 50A                       |
| 3    | Pole          | 2P 4P 4B                                  |
| 4    | Wiring        | W: Cable Connector / MC4 terminal / Blank |

**Aswich** | Safety Is On