



THE INTERNATIONAL  
REC STANDARD

This Redemption Statement has been produced for

**UNIVERSITI TEKNOLOGI MALAYSIA**

by

**TNBX SDN. BHD.**

confirming the Redemption of

**43 924.709000**

I-REC Certificates, representing 43 924.709000 MWh of  
electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

**KAMPUS UTM JLN SKUDAI UTM SKUDAI 81300 JOHOR BAHRU JOHOR  
Malaysia**

in respect of the reporting period

**2023-01-01 to 2023-12-31**

The stated Redemption Purpose is

**To Offset an Approximate of 33,294.929 tonnes of Carbon Dioxide Emissions from  
Purchased Electricity**

**Ev.**



QR Code Verification

Verify the status of this Redemption Statement by scanning the QR code on the left and entering in the Verification Key below

Verification Key

3 0 1 2 5 6 4 9

<https://api-internal.evident.app/public/certificates/en/mah8ULUyDGqy7qCyNDBfxqYpikIuape4v3TYokWm1QALU%2B6r6Um42QyjjK9cAltD>

Redeemed Certificates

Production Device Details

Device	Country of Origin	Energy Source	Technology	Supported	Commissioning Date	Carbon (CO <sub>2</sub> / MWh)
Kerian Solar Sdn. Bhd.	Malaysia	Solar	PV Ground mounted	No	2022-08-05	0.000000

Redeemed Certificates

From Certificate ID	To Certificate ID	Number of Certificates	Offset Attributes	Period of Production	Issuer
0000-0218-5851-1319.930000	0000-0218-5852-4497.342999	13 177.413000	Incl	2023-02-01 - 2023-02-28	The Green Certificate Company (Central Issuer)

Production Device Details

Device	Country of Origin	Energy Source	Technology	Supported	Commissioning Date	Carbon (CO <sub>2</sub> / MWh)
Stesen Janaelektrik Ulu Jelai	Malaysia	Hydro-electric	Dam	No	2016-09-27	0.000000

Redeemed Certificates

<b>From Certificate ID</b>	<b>To Certificate ID</b>	<b>Number of Certificates</b>	<b>Offset Attributes</b>	<b>Period of Production</b>	<b>Issuer</b>
0000-0218-4393-3495.000000	0000-0218-4396-4242.295999	30 747.296000	Incl	2023-02-01 - 2023-02-28	The Green Certificate Company (Central Issuer)

## Auditor Notes

This statement is proof of the secure and unique redemption of the I-RECs stated above for the named beneficiary to be reported against consumption in the country during the reporting year stated. I-RECs are assigned to a beneficiary at redemption and cannot be further assigned to a third party. No other use of these I-RECs is valid under the I-REC Standard.

Where offset attributes are 'inc' the device registrant, who exclusively holds the environmental attribute rights, has undertaken never to release carbon offsets in association with these MWh; 'excl' means carbon offsets relating to these MWh may be traded independently at some point in the future.

For labelling scheme information please refer to the scheme's website. Labelling scheme listing may not be exhaustive.

Thermal plant emit carbon as part of the combustion process. Whilst this is not zero carbon, it is generally recognised as carbon neutral where the source is recent biomass.

In 2023, Universiti Teknologi Malaysia (UTM) implemented a carbon management strategy focused on offsetting carbon dioxide emissions and improving energy efficiency. UTM redeemed 43,924.709 MWh of electricity from renewable sources, primarily solar and hydroelectric power, through I-REC certificates. This initiative helped offset approximately 33,294.929 tonnes of carbon dioxide emissions from purchased electricity. The renewable energy was sourced from facilities like Kerian Solar Sdn. Bhd. and Stesen Janaelektrik Ulu Jelai in Malaysia, which have zero carbon emissions per MWh. This approach is part of UTM's broader energy efficiency plan aimed at reducing overall energy consumption and minimizing its carbon footprint by relying on clean energy sources.