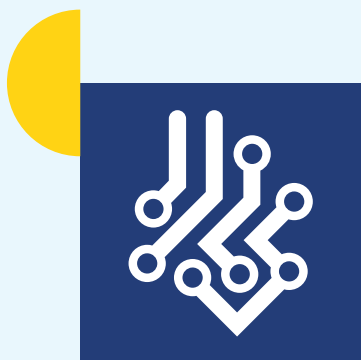




Building A Sustainable & Efficient Energy Future



WHO WE ARE

Powered by technology and innovation, and driving the energy sector transformation.

Indian Energy Exchange (IEX) is India's premier energy marketplace, providing a nationwide automated trading platform for physical delivery of electricity and renewable energy. IEX is powered by state-of-the-art and intuitive technology, facilitating the ease of power procurement and driving the energy sector transformation.





VISION

To be the architect of next-generation solutions for sustainable energy ensuring competitive, transparent and reliable access.

MISSION

To leverage technology and innovation to establish transparent and efficient energy, marketplaces for delivering affordable, reliable energy to consumers.

IEX PROMISE



POWER ON DEMAND 24*7

A wide array of delivery-based contracts varying from 1 hour to a week in advance to facilitate 24 x 7 access to electricity in even remotest parts of the country.



FLEXIBILITY

Trade in 15-minute blocks to allow flexible procurement round the clock.



COMPETITIVE PRICES

Robust liquidity and double-sided closed auction ensure most competitive price discovery and social welfare maximisation.



TRANSPARENCY

Standardised contracts and double-sided closed anonymous auction in most market segments.



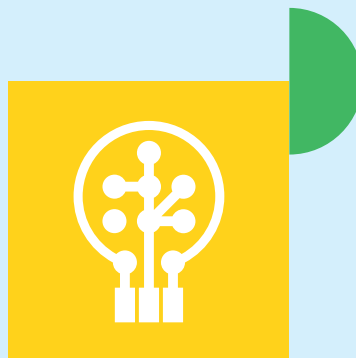
OPTIMISATION

Competitive prices yielding financial savings.



PAYMENT SECURITY

No counter-party risk with robust risk management principles for each market segment.



TECHNOLOGY FOR ENERGY MARKETS

The rapid energy shift driven by renewable energy as well as the increasing consumerization calls for a greater focus on innovation & technology. The technology-led energy marketplace is pivotal towards building a sustainable & efficient energy future.

IEX envisions to architect the next-generation energy solutions by ensuring competitive, transparent, and reliable access to energy. In order to realize this vision, IEX leverages technology and provides the best-in-class experience to the market participants.

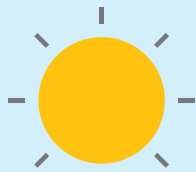
Customer-centric initiatives implemented in the recent past:

- Enhanced Customer Experience across all the key touchpoints – Registration, Bidding, Physical Delivery, and Financial Settlement.
- Web-based platform providing digital registration, anytime anywhere, easy and secure access to the trading platform, data insights and analytics.
- Application Programming Interface (API) for RTM based automated bidding. This enables the market participants to automatically fetch all the market data.
- Bid creation tool provided to the market participants to facilitate power procurement optimization, helping in fast creation of bulk bid and quick upload on IEX trading platform.

- System integration with the Clearing Banks has been enabling faster financial transactions with our customers.
- Smart Power Procurement tool to facilitate inefficient power portfolio and cost optimisation.
- Value-Added Services for the Renewable Generators to get generation forecasting services and solutions from the best-in-class service empanelled service providers.
- API for all market segments -DAM, G-TAM and REC.
- Robotic Process Automation (RPA) have been introduced to eliminate human dependency on processes.

Keeping pace with the innovative technologies towards building a robust, secure, scalable, configurable, future-ready Exchange which offers the best-in-class experience, we are working on building globally proven and futuristic Exchange architecture, in partnership with global partners.





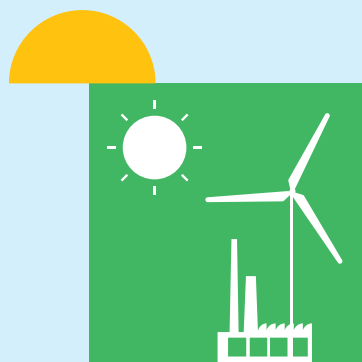
BUILDING A SUSTAINABLE & EFFICIENT ENERGY FUTURE

The future is green!

The energy ecosystem around us has been evolving and a rapid transition has been underway. The policymakers and regulatory authorities are pro-actively deliberating to introduce competitive market-based models, towards meeting sustainable energy aspirations.

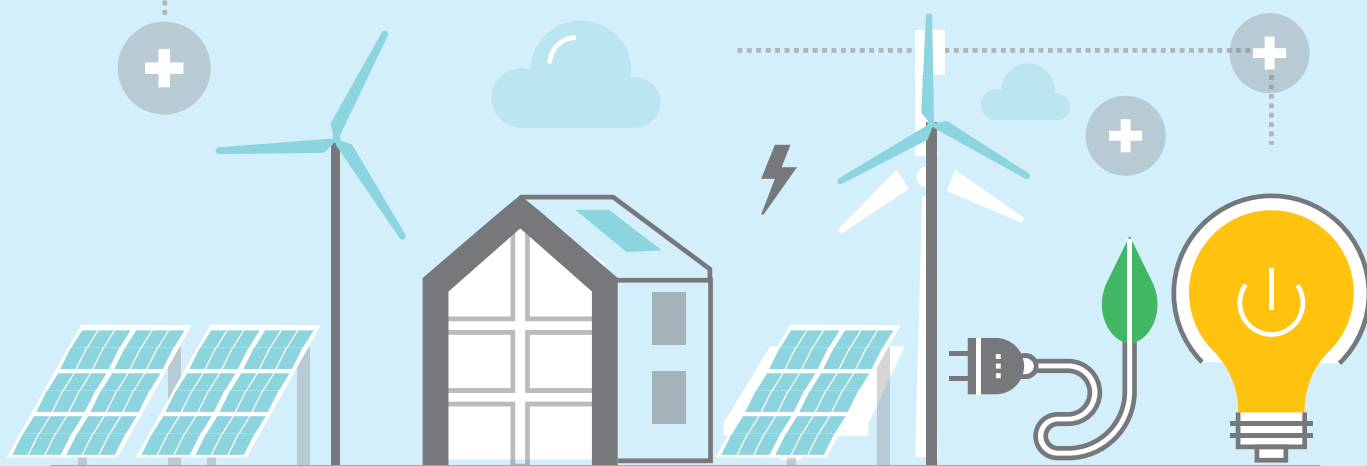
India has voluntarily committed to Sustainability Goals at COP 26 Summit held in October'21 at Glasgow, UK. Building a sustainable energy future is a key imperative for India to deliver energy security and access to its citizens.

To support the national target of 500 GW of renewable energy by 2030 in a flexible and competitive way, the Indian Energy Exchange has introduced Green Market, which provides day-ahead trading, basis double-sided collective auctions as well as contracts under the



term-ahead segment for renewable energy procurement on a competitive and flexible basis. The Renewable Energy Certificate Market also supports sustainability aspirations and facilitates compliance with renewable purchase obligations as well as voluntary requirements. Coupled with the Real-Time Market and other value-added services such as forecasting, optimisation and analytics, we have been facilitating India towards building a sustainable energy future.

The Green Market has been greatly supporting India's energy transition by providing a pan-India market to renewable energy generators as well as distribution utilities, and commercial and industrial consumers. Furthermore, it is our continuous endeavour to bring in more green products to facilitate market participants with greater choices.



ECOSYSTEM



7,100+
Registered
Participants



4,460+
Industries



1500+
RE Generators
550+
Conventional
Generators



55+
DISCOMs



100+
ESCert Entities

DID YOU KNOW

CUMULATIVE TRADE SINCE INCEPTION



Electricity
680+ BU



Green Market
34 BU



CUMULATIVE VOLUME H1 FY-23 46 BU



Electricity Market: 40 BU

- DAM: **22,382 MU**
- RTM: **12,826 MU**
- TAM: **5,158 MU**

Green Market: 2996 MU

- G-DAM: **2164 MU**
- G-TAM: **832 MU**

Certificate Market:

- REC Market: **3,111 MU**

INDIAN GAS EXCHANGE



India's first Gas Exchange secured PNGRB authorization in Dec '20

- Cumulative trade of 101 Lac MMBTU in H1 FY-23 inception
- 31 Members and 120+ active clients
- 6 Hubs & multiple delivery points
- IGX secured authorisation from PNGRB on 2 December 2020

TOGETHER THE NEW MARKET
SEGMENTS - RTM, G-TAM &
G-DAM HAVE TRADED 16 BU in H1 FY-23



CROSS BORDER ELECTRICITY TRADE COMMENCED ON 19 APRIL 2021



GREEN DAY-AHEAD MARKET COMMENCED ON 26 OCTOBER 2021

Longer Duration Contracts

Now providing power contracts
for up to 3 months



Commenced operations in 2008 | Publicly listed company on NSE and BSE since October 2017
Approved and regulated by Central Electricity Regulatory Commission

Certified Accreditations:

ISO 9001:2008 for Quality Management | ISO 27001:2013 for Information Security Management
ISO 14001:2004 for Environment Management

PRODUCT OFFERINGS

ELECTRICITY MARKET

DAY-AHEAD MARKET

A physical electricity trading market for deliveries for any/some/all 15-minute time blocks in 24 hours of the next day, starting from midnight. The prices and quantum of electricity to be traded are determined through a double-sided closed auction bidding process.

REAL-TIME MARKET

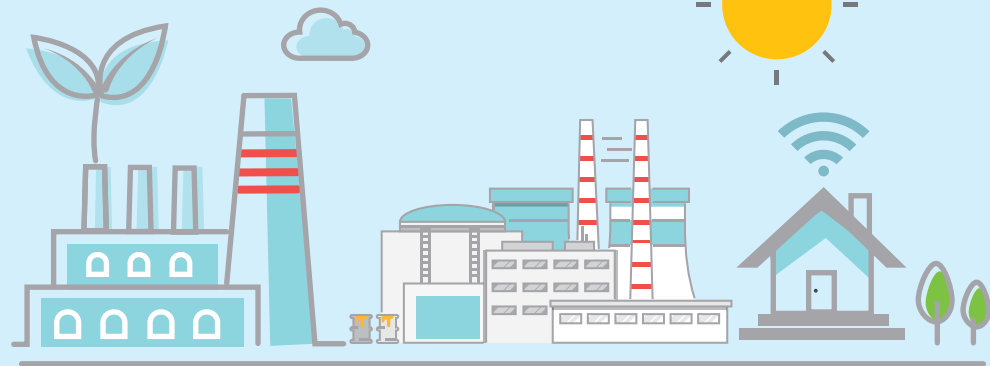
A market segment that is featuring a new auction session every half an hour with power to be delivered after 4 time blocks or an hour after gate closure of the auction. The price and quantum of electricity trading is determined through a double-sided closed auction bidding process.

TERM-AHEAD MARKET

Includes a range of products allowing participants to buy/sell electricity on a term basis for a duration of up to 11 days ahead. Products in the Term Ahead-Market include Intra-day, Day-Ahead Contingency, Daily and Weekly contracts to help participants manage their electricity portfolio for different durations.

CROSS BORDER ELECTRICITY TRADE

IEX Pioneered Cross Border Electricity Trade with commencement of trade with Nepal in its Day ahead electricity market on April 17, 2021. The Cross border in electricity is an endeavour to expand the Indian power market towards building an integrated South Asian Power Market. To begin with, the grid connected South Asian countries such as Nepal, Bhutan and



Bangladesh will be able to participate in Day-ahead Market and Term-ahead Market on the Exchange. Subsequently, as the grid connectivity extends to other south countries, the market will expand further.

GREEN MARKET

GREEN DAY-AHEAD MARKET

The market is allowing anonymous and double-sided closed collective auction in renewable energy on a day-ahead basis. The market was commenced on 26 Oct'21. The Exchange invites bids for conventional and renewable in an integrated way through separate bidding windows. The clearing takes place in a sequential manner – first in the renewable segment having the must-run status, considering the availability of the transmission corridor, followed by the conventional segment; discovering separate price formation for green and conventional power.

GREEN-TERM AHEAD MARKET

The market segment for trading in delivery-based renewable energy. The market was commenced on 21 August 2020 following the CERC approval. The market segment features contracts such as Intra-day, Day-ahead Contingency, Daily and Weekly, separate for solar and non-solar segments. The matching mechanism is continuous trading for Intra-day, Day-Ahead Contingency and Daily contracts, whereas double-sided open auction process will be implemented for Weekly.

CERTIFICATE MARKET

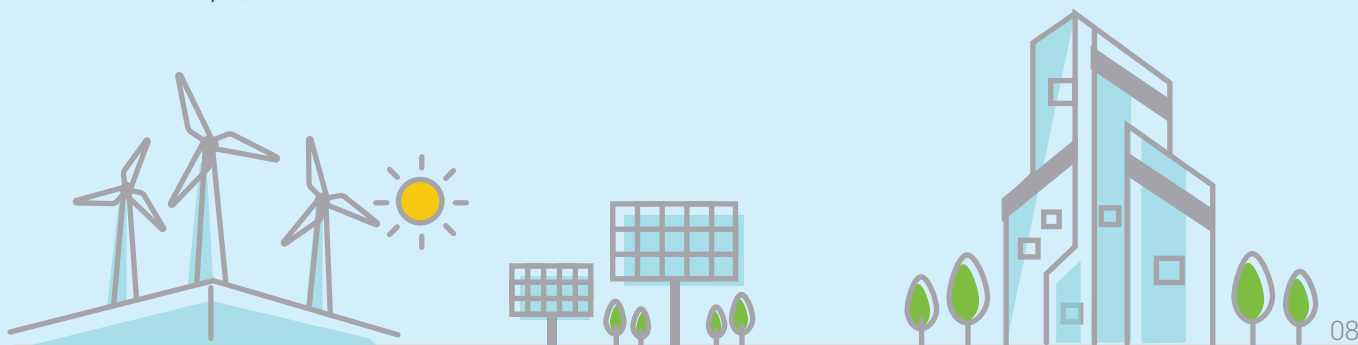
RENEWABLE ENERGY CERTIFICATES

The green attributes of electricity generated from renewable resources. There are two categories of REC - Solar and Non-solar. One certificate represents 1 MWh of energy generated. REC is positioned as the key driver of renewable energy market because of its flexibility and the fact that they are not subject to the geographic and physical limitations of the underlying commodity, electricity. The obligated entities purchase RE to fulfil their Renewable Purchase Obligation.

ENERGY SAVING CERTIFICATES

The market-based instrument designed for consumers in energy-intensive industries and sectors in order to reduce their specific energy consumption for every compliance period, in accordance with specified targets. The certificates are created under the Perform Achieve Trade scheme of the Ministry of Power.

Longer Duration Contracts
Providing power contracts for up to 3 months



IEX: KEY MILESTONES

2008

Day-Ahead Market
Commenced operations with 58 participants
Daily cleared volume in DAM: 20 million units

2010

Registered participants
in DAM crossed 500+

2009

Registered first
open access customer
Term-Ahead Market

2011

Renewable Energy Market
First non-solar REC traded

2012

Introduced 15-min contract in DAM
First solar REC trade
MOU with PJM Technologies

2015

Round the clock
Term-Ahead Market

2013

MOU with EPEX SPOT
(France)

2016

India's first energy exchange
to get ISO Certifications

2017

Energy Saving Certificates
Gets listed on the NSE & BSE

2019

Highest DAM volume in a
day reaches 306 MU

2018

Signs MOU with JEPX
(Japan)

2020

Two new bid types and
TAM contract enhancement
Real-Time Electricity Market
MOU with Power Ledger, Australia,
Indian Gas Exchange
Green Term-Ahead Market

2021

Cross Border
Electricity Trading
Green Day-Ahead Market
Advanced MILP algorithm
Web-based trading portal

2022

Longer Duration Contracts

INDIAN GAS EXCHANGE

The Indian Gas Exchange was launched on 15 June 2020 by Shri Dharmendra Pradhan, the then Honourable Minister of Petroleum and Natural Gas. IGX secured authorisation from Petroleum and Natural Gas Regulatory Board on 2 December 2020, to operate as India's first Gas Exchange. The Exchange's vision is aligned with the Government's stated ambition to increase the share of gas in India's energy mix from the present 6% to 15% by the year 2030.

IGX leverages technology and innovation to operate a nationwide, transparent, and competitive marketplace for the trading of gas and petroleum products, towards facilitating India's strategic aspiration of building a gas-based economy.

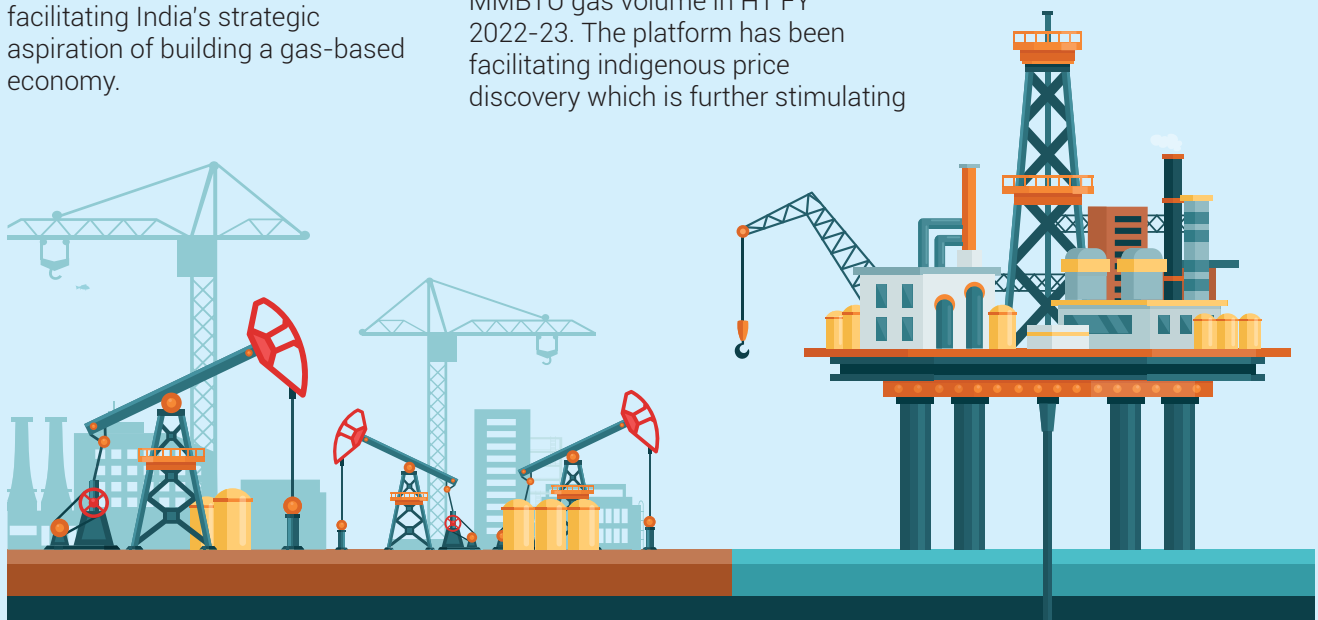
The Exchange offers a fully automated web interface, based on a seamless trading experience, powered by the best-in-class technology from GMEX, one of the world's leading companies providing digital Exchange trading and technology-based in the UK.

With a robust ecosystem of 31 Members and 120 + Registered Clients, currently, IGX operates from 6 hubs and multiple delivery points like - Mahaskal, Ankot, Bhadbhut & Suvali and offers a wide spectrum of products to trade in Day Ahead, Weekly, Weekday, Fortnightly and Monthly contracts.

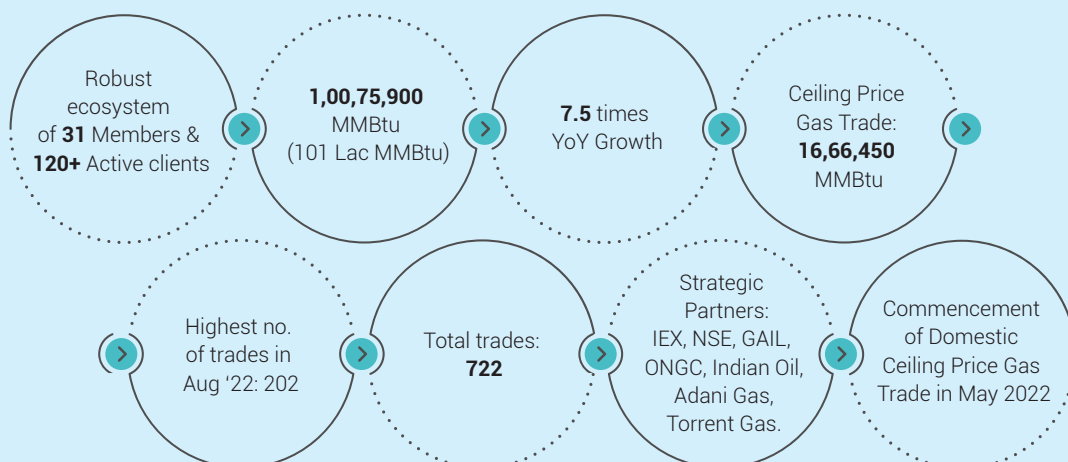
IGX cumulatively achieved 101+ lac MMBTU gas volume in H1 FY 2022-23. The platform has been facilitating indigenous price discovery which is further stimulating

demand, driving industrial competitiveness, spurring investments in the value chain and delivering efficient utilisation of the pipeline infrastructure as well as ensuring the revival of gas-based power plants.

In a breakthrough development, IGX has commenced trading in domestic gas at its platform apropos approval from the regulatory authorities. This will lead to new opportunity of domestic gas sales and price discovery through Exchange market besides helping to increase the sell side liquidity.



PERFORMANCE MILESTONES: H1 FY-2023



CORPORATE OFFICE

INDIAN ENERGY EXCHANGE LIMITED (IEX)

9th Floor, Max Towers, Sec - 16B,
Noida, Gautam Buddha Nagar,
Uttar Pradesh - 201301

👤 **Ravi Seth | Harmeet Chhabra**

☎ **+91- 9953087440 | +91-7290022052**

☎ **+91 - 120 - 4648100**

✉ **ravi.seth@iexindia.com**

harmeet.chhabra@iexindia.com

REGISTERED OFFICE

INDIAN ENERGY EXCHANGE LIMITED (IEX)

C/o Avanta Business Centre,
First Floor, Unit No. 1.14(a),
D2, Southern Park,
District Centre, Saket,
New Delhi-110017

REGIONAL OFFICES

MUMBAI

Unit No.-904, 905, 906 & 911, 912, 9th Floor,
Meadows, Sahar Plaza Complex, J B Nagar,
Andheri Kurla Road, Andheri (E),
Mumbai – 400059

👤 **Ankit Prathast**

☎ **+91-9958617983**

✉ **ankit.pratihast@iexindia.com**

HYDERABAD

Regus Business Centre,
1st Floor, Mid Town Plaza,
Road No.1, Banjara Hills,
Hyderabad – 500033.

👤 **Naga Adithya Eranki**

☎ **+91-7290893843**

✉ **adithya.eranki@iexindia.com**

AHMEDABAD

C-1207 & C-1208,
Titanium Square, Near BMW Showroom,
President Plaza, Thaltej Cross Road,
S.G. Highway, Ahmedabad – 380054

👤 **Chetan Jain**

☎ **+91-9742775654**

✉ **chetan.jain@iexindia.com**

BENGALURU

3rd Floor,
91 Springboard,
JP Nagar, Bengaluru,
Karnataka – 560076

👤 **Anish Maman**

☎ **+91-9712909362**

✉ **anish.maman@iexindia.com**

CHENNAI

Ganga Rasayanie (P) Ltd.,
703, Spencer Plaza,
769, Anna Salai,
Chennai – 600 002

👤 **Shakeek Ahmed**

☎ **+91-8056017070**

✉ **shakeek.ahmed@iexindia.com**

KOLKATA

Regus RDB Boulevard,
Level 8, RDB Boulevard, Plot K1,
Block EP & GP, Sector-V, Salt Lake City,
Kolkata, West Bengal – 700 091

👤 **Shuvam Sekhar Pati**

☎ **+91-8984031477**

✉ **shuvam.pati@iexindia.com**

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