

ESCert Trading

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In this Presentation

- ✓ Introduction to Power Exchange
- ✓ ESCert Market- Key Features
- ✓ Trading in ESCert Market

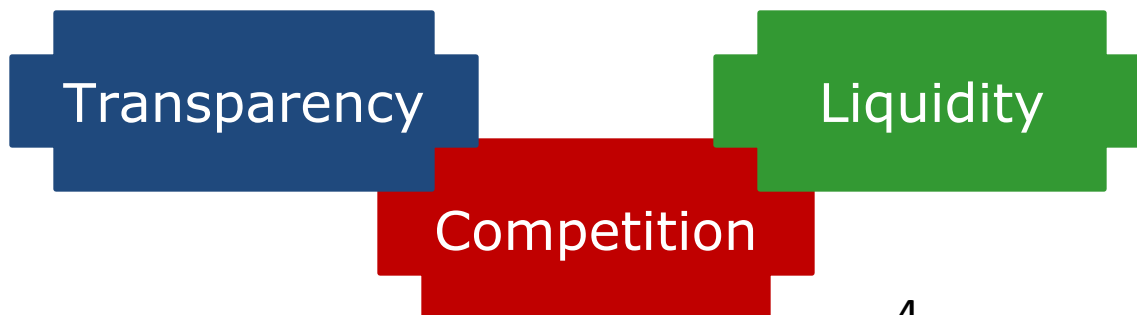
Exchange: A Competitive 'Market'

- ✓ Transparent online market platform for **delivery based trading**
- ✓ Exchanges provide a efficient, **competitive platform** for price discovery and trading – Stock / Commodity/Energy
- ✓ Now, worldwide Power Exchanges are operating in almost 40 countries.
- ✓ Energy/Power exchanges in India started operations from 2008.
- ✓ Regulatory oversight of Central Electricity Regulatory Commission (CERC)

Company Snapshot



- Market Share: **98%**
- Average daily trade: **5500 MW**
- Annual Traded Volume: **40 Billion Units**
- High Participation: **4300+**
 - 3800+** Industries
 - 47** Discoms (all)
 - 380+** Generators



Market Share-FY 17 (All Products)
Average Daily Trade- FY17
Participation-as on 31 Mar 2017

IEX Market Segments

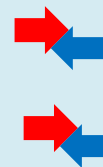
Day-Ahead Market
since June,08

- *Delivery for next day*
- *Price discovery: Closed , Double-sided Auction*



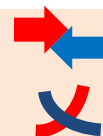
Intraday Market & Day-Ahead Contingency
Round the clock since Jul'15

- *Intraday: For Delivery within the same day*
- *Day Ahead Contingency: Another window for next day*
- *Gate closure : 3 hours*



Term-Ahead Contracts
since Sep,09

- *For delivery up to 11 days*
- *Daily Contracts, Weekly Contracts*



Renewable Energy Certificates
since Feb,11

- ***Green Attributes as Certificates***
- ***Sellers : RE generators not under feed in tariffs***
- ***Buyers: Obligated entities; 1MWh equivalent to 1 REC***



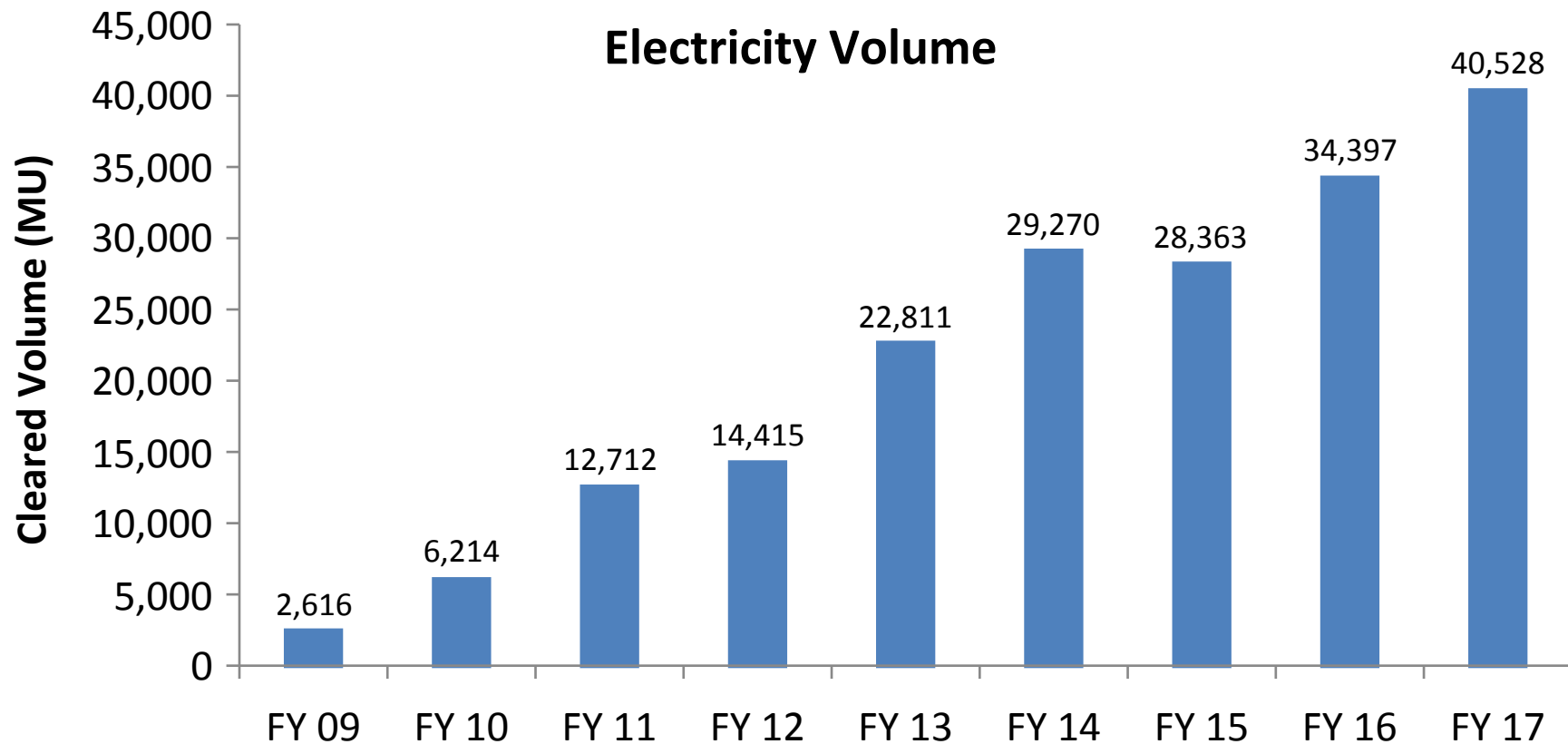
Energy Saving Certificates

All procedures and approvals are in place. Trading to start soon.

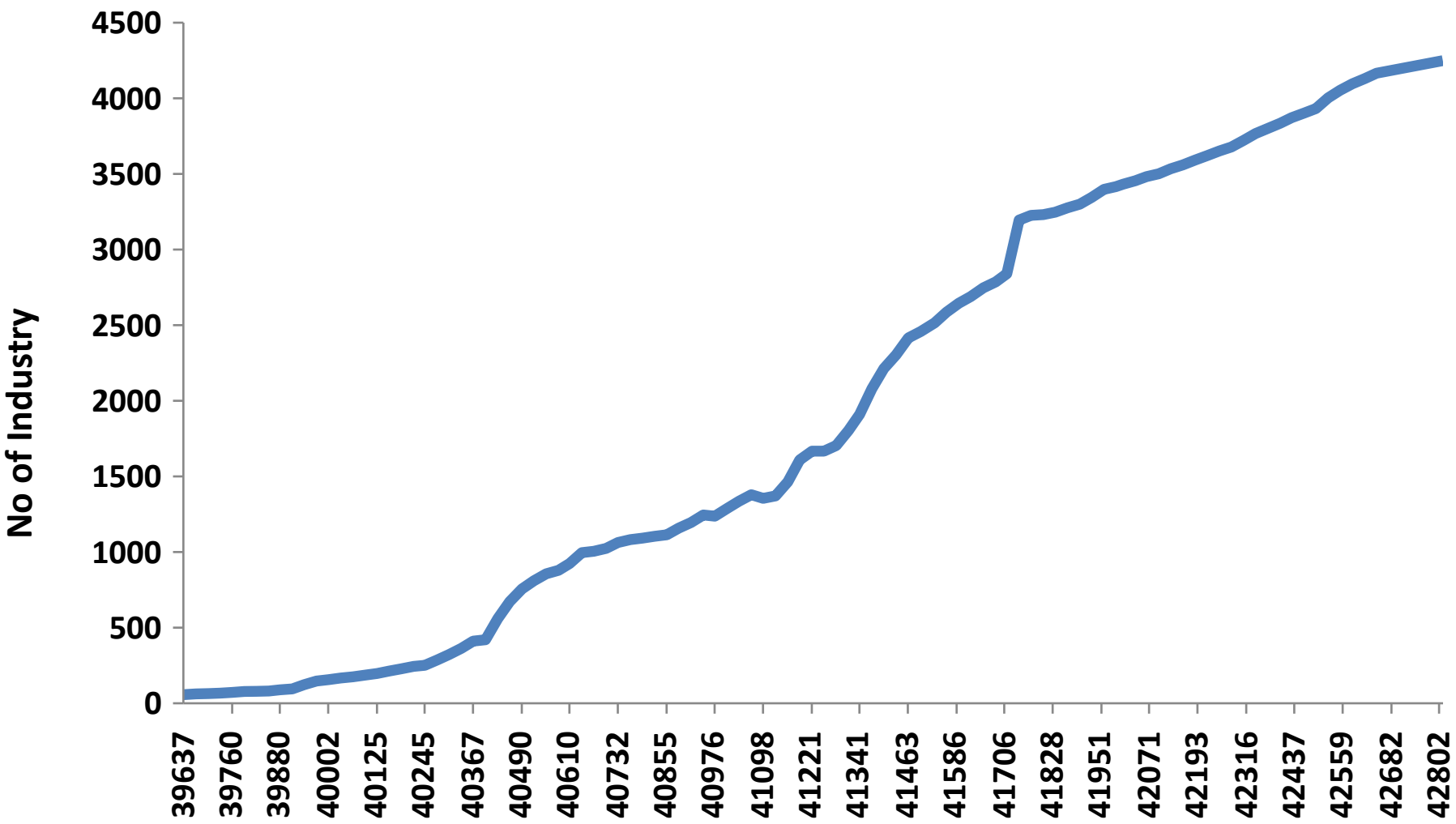


Continuous

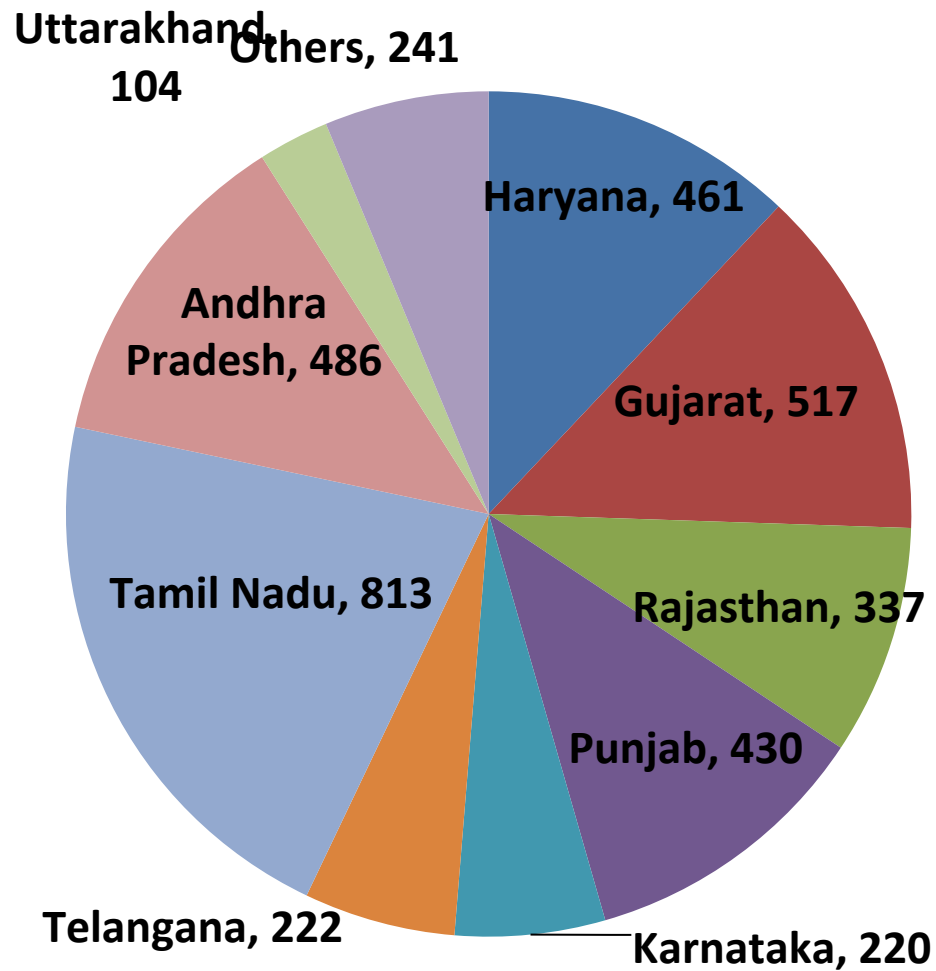
IEX Volume Growth : Strong trend line



Growing Participation from Industries

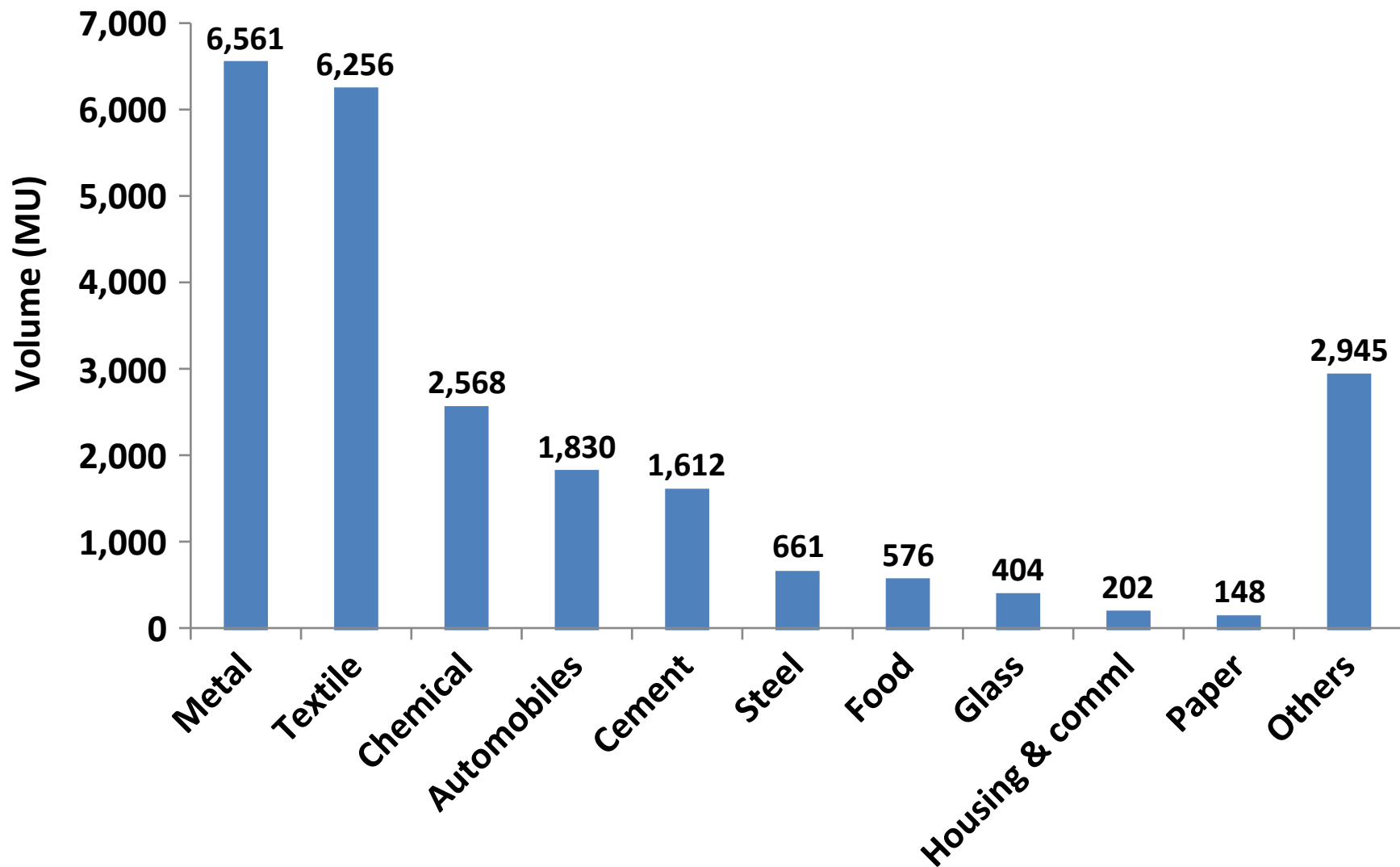


Pan India Industry Participation



As on
April'2017

Sector Wise Volume



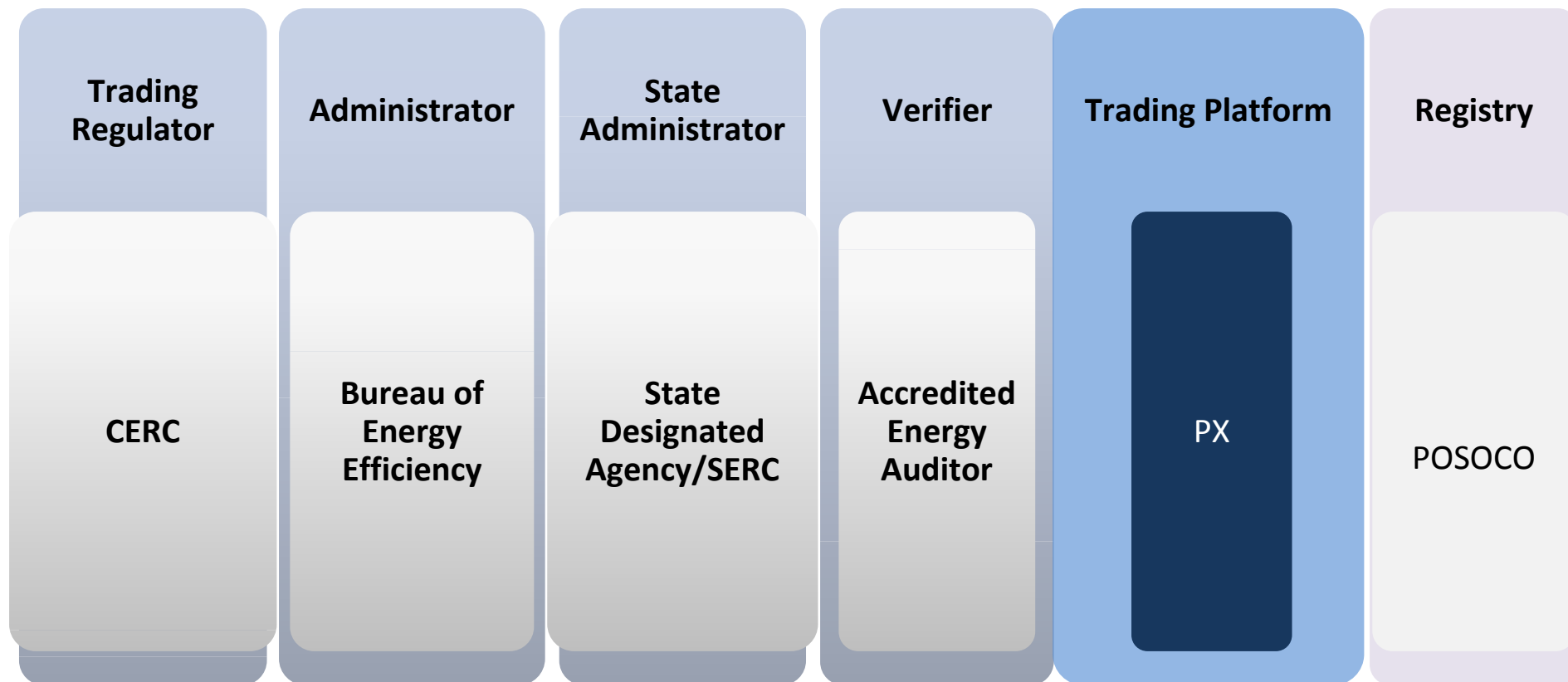
ESCert Trading

A market based mechanism to enhance cost effectiveness of improvements in energy efficiency in energy-intensive large industries and facilities, through certification of energy savings that could be traded

Chronology

- ✓ 2012 – 1st PAT Cycle
- ✓ 2015 – Close of 1st PAT Cycle
- ✓ 2016 – 2nd PAT Cycle
- ✓ May, 2016- CERC regulation for Terms and condition for dealing in ESCerts
- ✓ Feb, 2017- CERC approval for procedures for transaction of ESCerts
- ✓ March, 2017- CERC order on fees and charges of ESCERTS Registry
- ✓ **May, 2017- CERC approves IEX Rules & Bye-Laws**

Stakeholders under the PAT scheme



Eligible Entity

Designated Consumers Registered with Registry

Salient Features of ESCert trading

Compliance

Mandatory

PAT Cycle

3 Years

Target Entities

Designated Consumers

Sellers

DCs to whom ESCerts have been Issued

Buyers

DCs who have been entitled to purchase ESCerts

Target

6.6 million toe for 1st Cycle

Mechanism

Cap and Trade

Self Retention

Not Allowed for Group Companies

Penalty

As per Energy Conservation Act, 2001
(Linked to market value of oil equivalent)

Salient Features of ESCert trading

ESCCerts

- 1 ESCert = 1 MTOE (Metric Tonne of Oil equivalent)

Trading Platform

- Power Exchange only

Trading Frequency

- Weekly (Tuesday)

Price Determination

- Double-sided Closed Auction with Uniform Price

Selection Principle

- Price | Pro-Rata

Banking

- Allowed for one consecutive cycle

Resale

- Not allowed

Cap & Floor Price

- No Cap & Floor Price

Redemption

- First In - First Out principle

Order Type

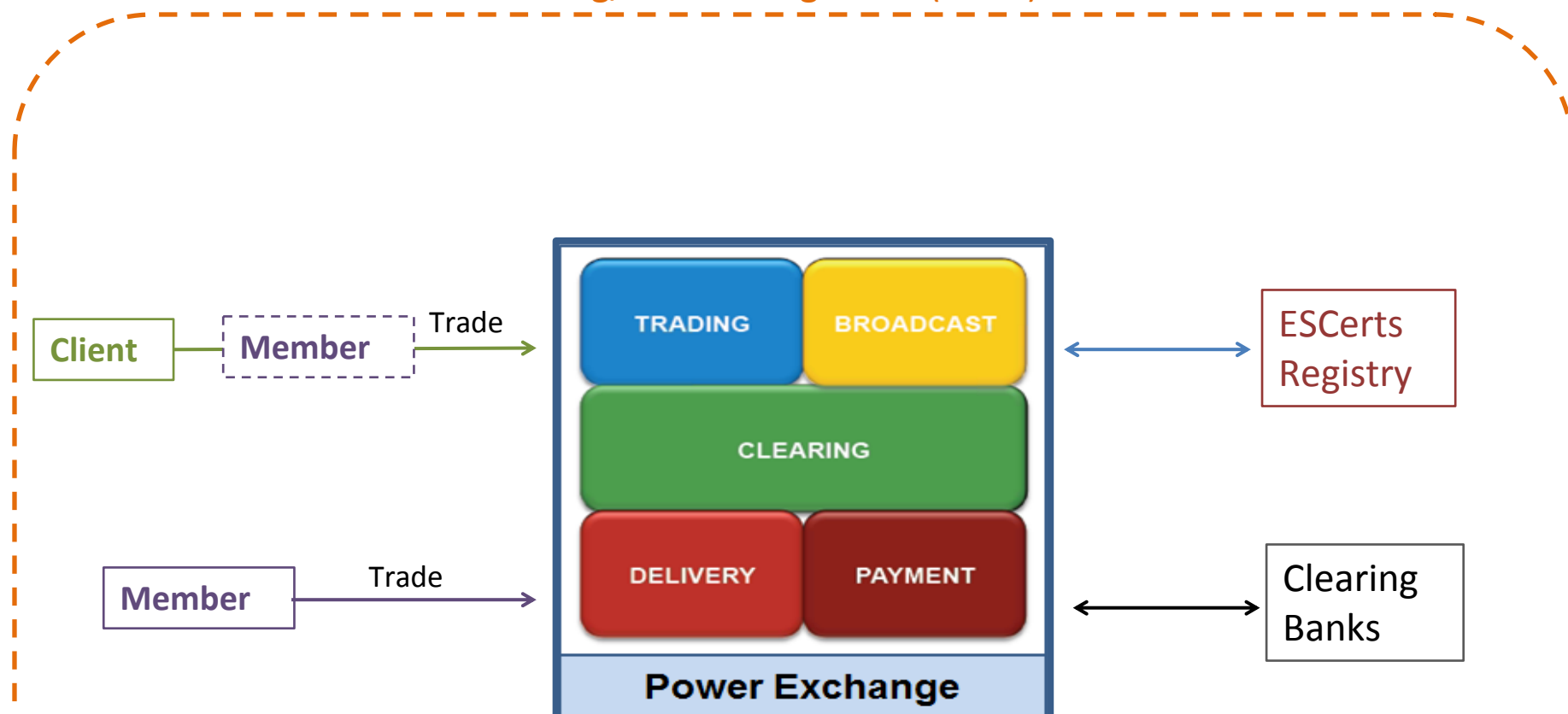
- Single Bid

Margin

- 100% from Buyers

Trading on Power Exchanges

Trading/Market Regulator (CERC)



CERC APPROVED

ESCert Framework

IEX Rules & Bye-Laws: Standardized Contract Specification

Trading Timelines

TIME on trade day

DETAILS

Pre-trade Phase:

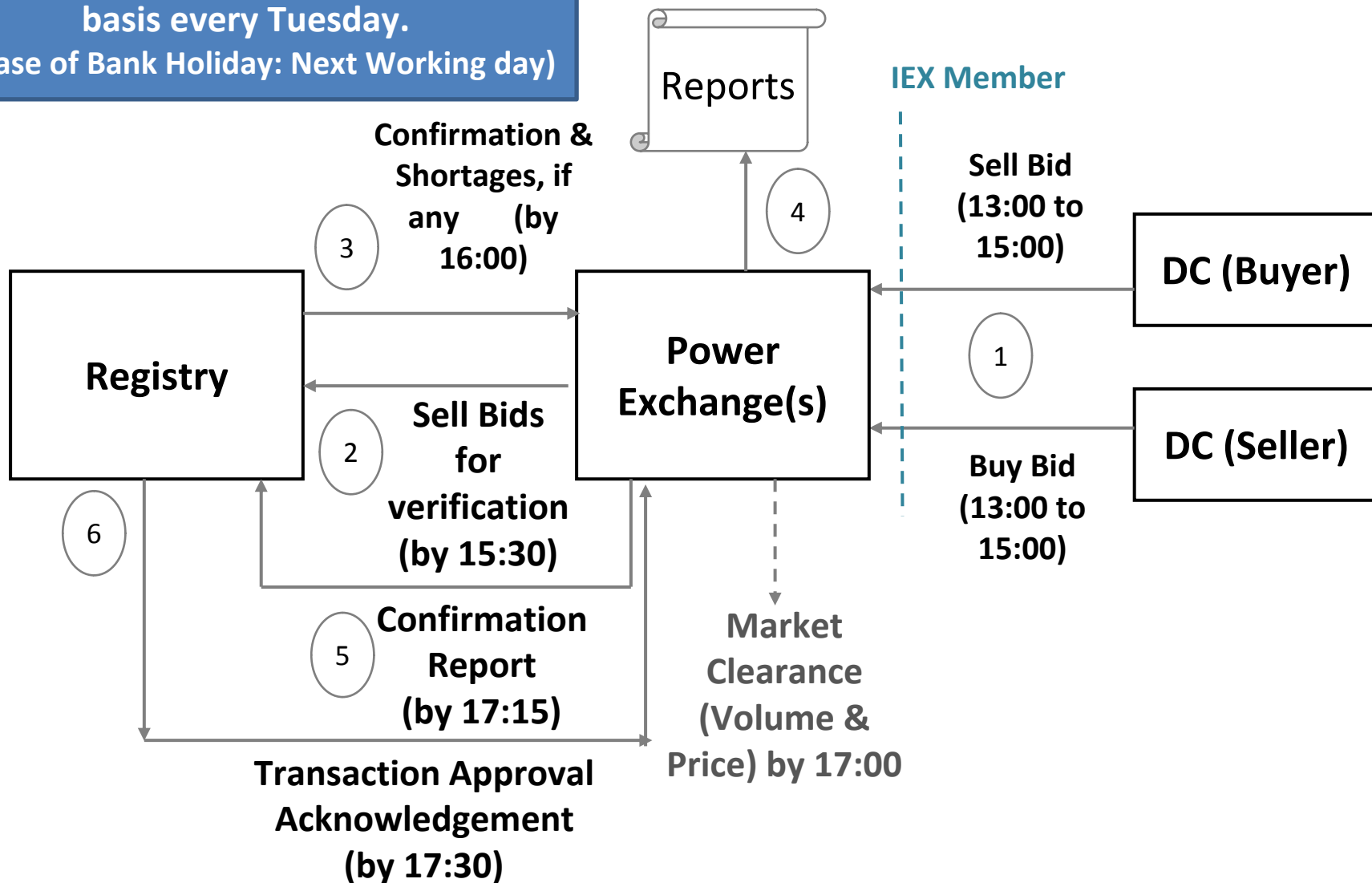
By 12.00

Exchange to check initial margin for Members

Process flow for ESCerts trading

Trading to be carried out on weekly basis every Tuesday.

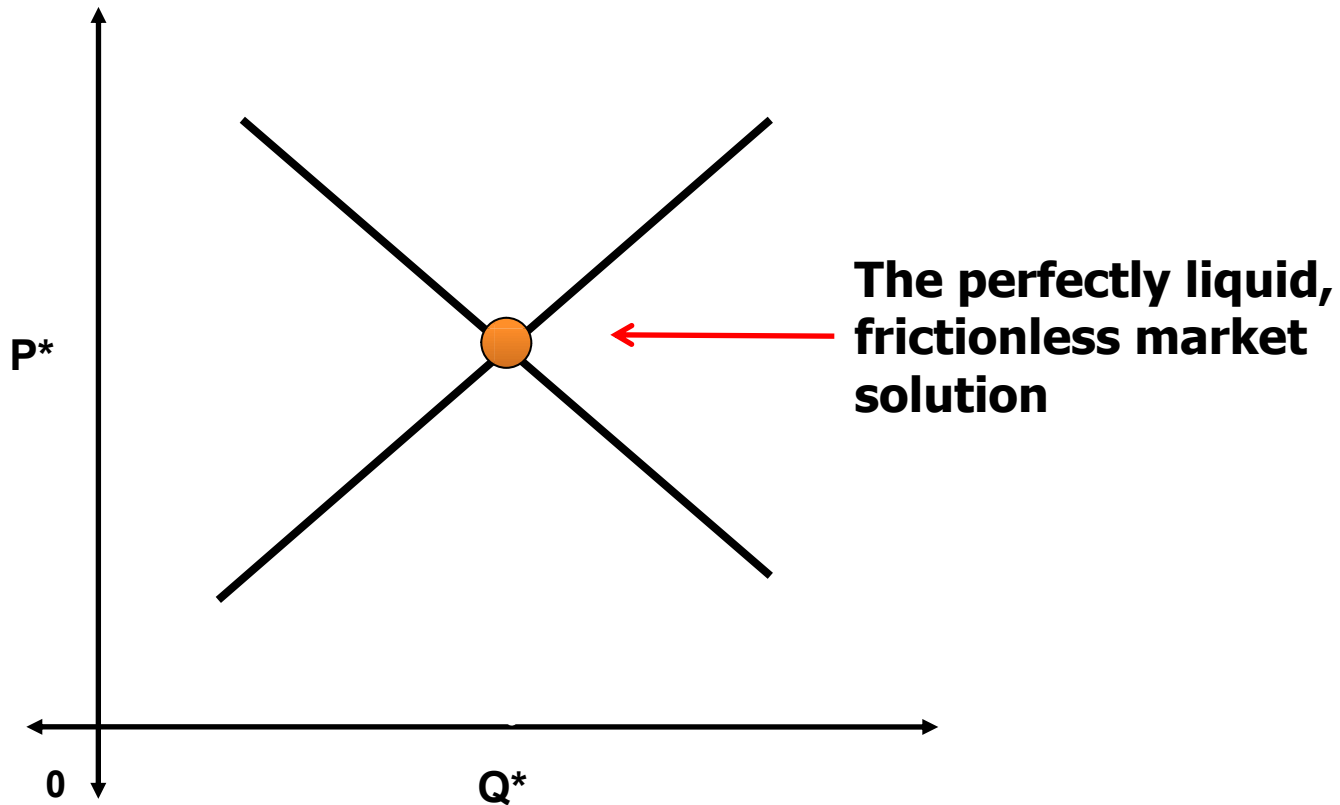
(In case of Bank Holiday: Next Working day)



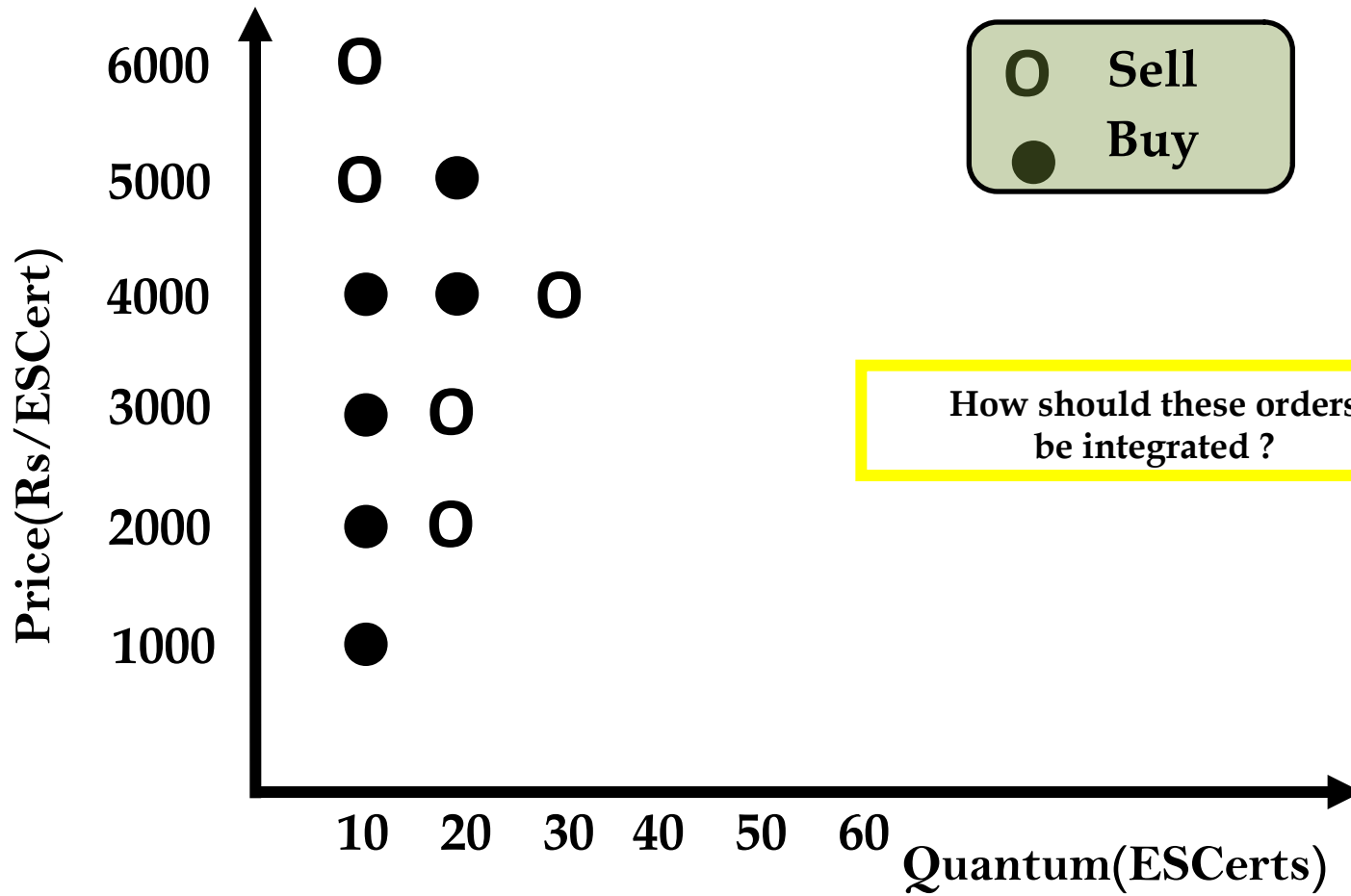
Roles & Responsibilities of PX

- ✓ Formulate Rules and Bye Laws for Transaction of ESCerts on PX
- ✓ Develop IT Platform compatible with the PAT-Net portal and D-CRM for online transaction.
- ✓ Permit transaction of ESCerts only to the Eligible Entities.
- ✓ To determine MCP and MCV based on double sided closed Auction with Uniform Pricing principle
- ✓ Send reports for Transaction confirmation, pay-in and pay-out for Executed Transaction.
- ✓ Issue Purchase Certificate to the Buyers.
- ✓ Display ESCerts demand supply curves on the website

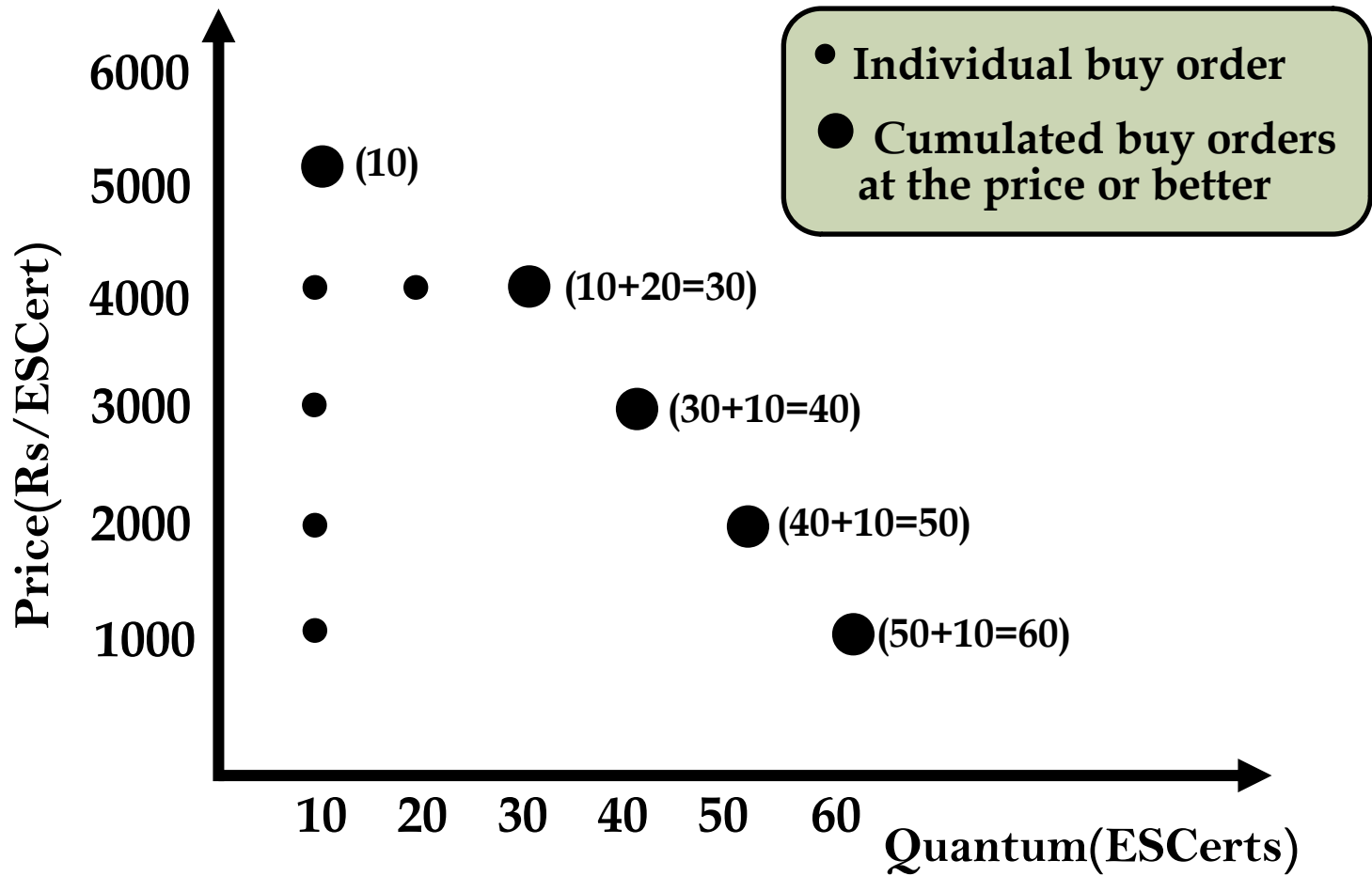
Double Sided Closed Auction



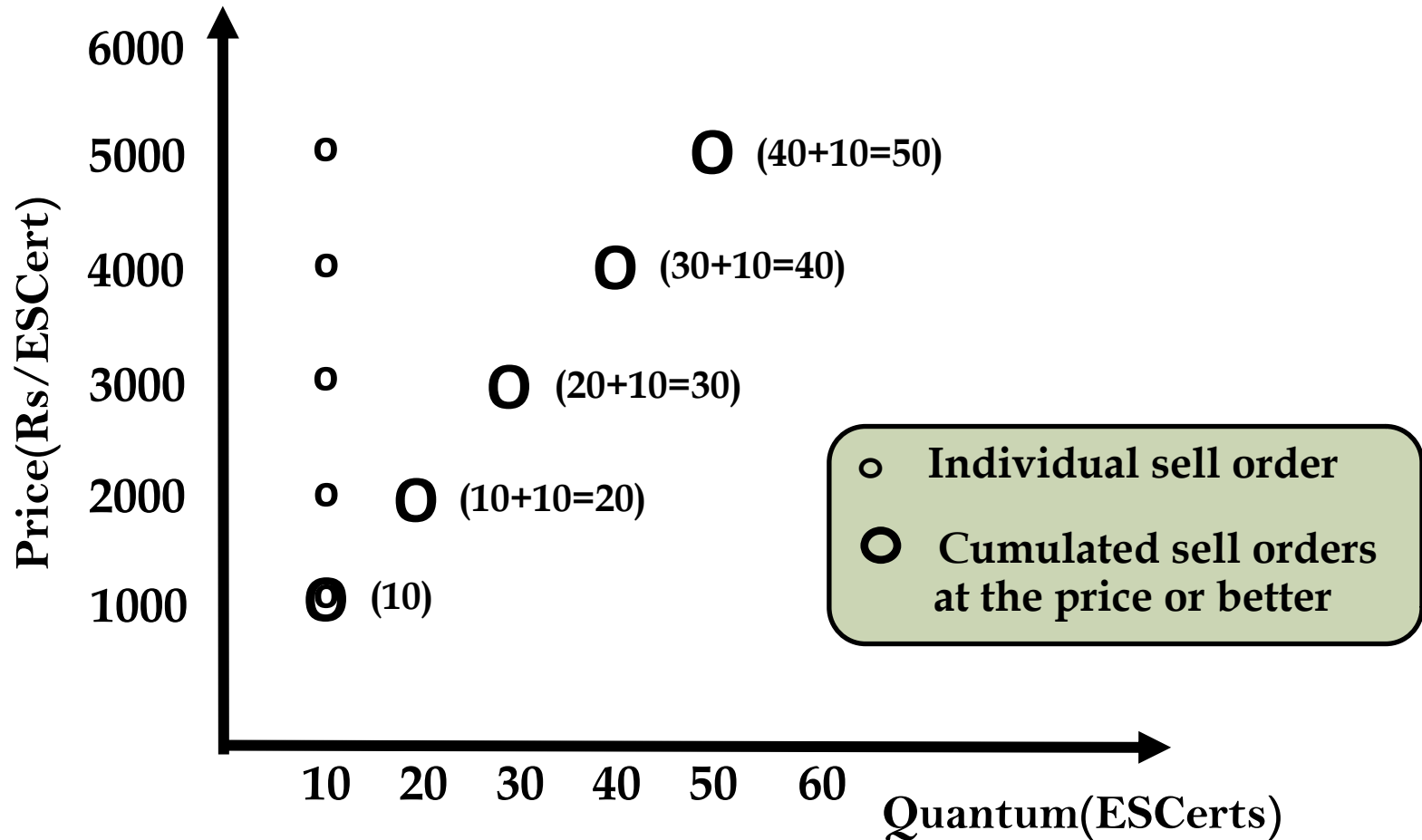
The Batching of Customer Orders



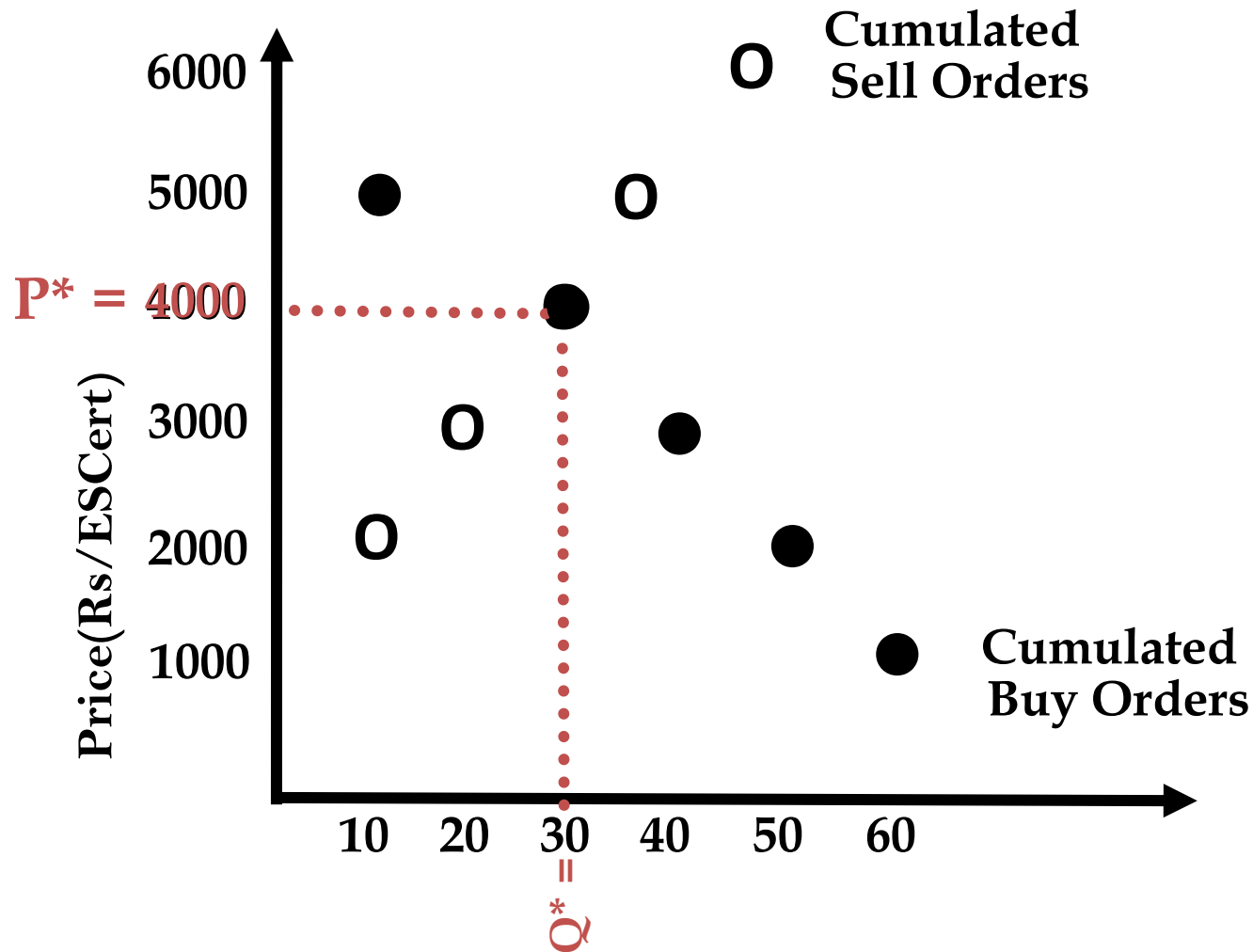
Aggregate the Buy Orders



Aggregate the Sell Orders



Match Aggregated Buy & Sell Orders



ORDER BOOK WINDOW(WITHIN TRADING HOURS)

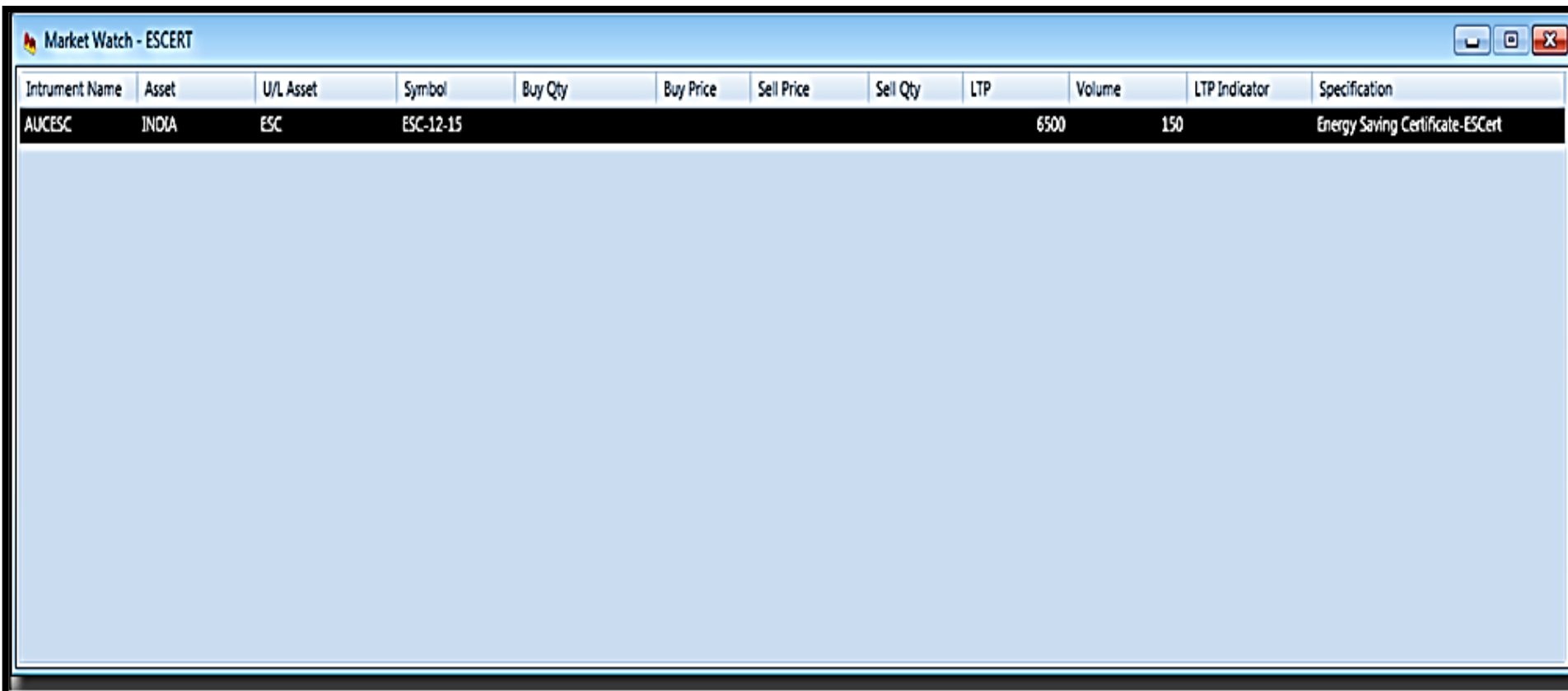
Order Book - [Pending]

Participant ID	Portfolio ID	Instrument Name	Symbol	Buy/Sell	Pending Quantity	Price	Status	Order No.	Disclosed...	Validity	Trigger Price	Reason	Remarks
N2DL08YP0000	N2DL08YP0001	AUCESC	ESC-12-15	Sell	150	5000	Pending	117052000000002		EOS			
N2DL0NDP0000	N2DL0NDP0001	AUCESC	ESC-12-15	Buy	200	6500	Pending	117052000000003		EOS			
N2DL08RP0000	N2DL08RP0001	AUCESC	ESC-12-15	Buy	100	6000	Pending	117052000000001		EOS			

Filter | Inst. Name : ALL, Buy/Sell : , Product : ALL, Participant ID : ALL, User ID : ALL, Portfolio ID : ALL

Buy Qty : 300 | Sell Qty : 150

MARKET WATCH WINDOW



The screenshot shows a software window titled "Market Watch - ESCERT". It contains a table with the following data:

Instrument Name	Asset	U/L Asset	Symbol	Buy Qty	Buy Price	Sell Price	Sell Qty	LTP	Volume	LTP Indicator	Specification
AUCESC	INDIA	ESC	ESC-12-15						6500	150	Energy Saving Certificate-ESCert

IEX will conduct Mock Trading Session with all the members before commencing ESCert Trading



Trade @ IEX

Options for dealing through Exchange

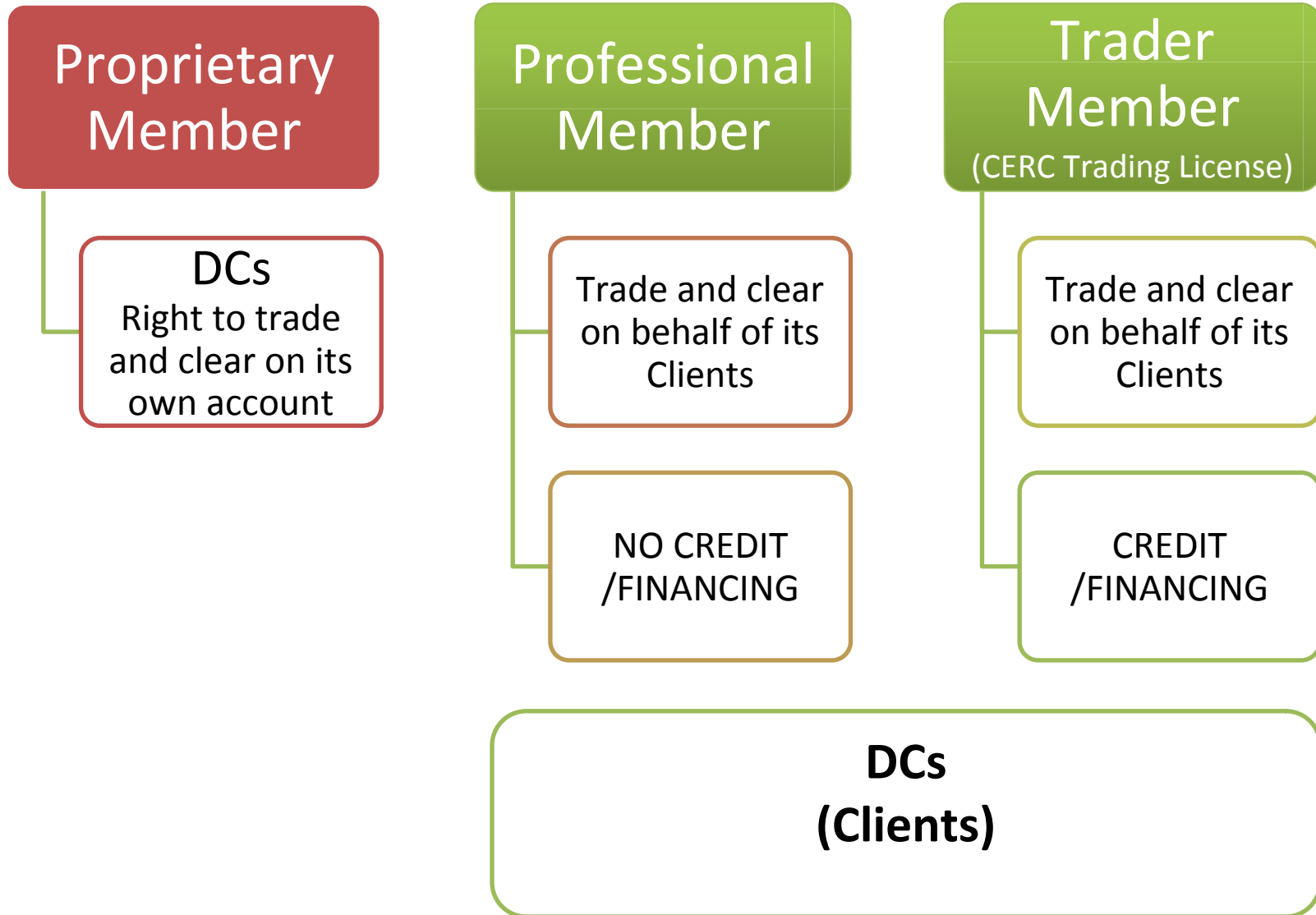
✓ Member - deals directly with Exchange

- DCs
- Electricity Traders
- Consultants/ Energy Auditors etc

✓ Client - deals through Member

- DCs

IEX Membership Types



Financial Requirements

- Existing Electricity & REC members can trade in ESCert market at no extra cost.

Exclusive ESCert Membership

Fees	Amount (in Rs Lakh)
Admission Fee	5
Subscription Fees (PAT Cycle)	1
Processing Fees	0.1
TOTAL	6.1
Interest Free Security Deposit	2.5
IEX Transaction fees(Rs/ESCert)	20
Net worth *	Rs 50

Exclusive ESCert Client

Client Fees	
Client fees per pat cycle	Rs. 20,000
IEX Transaction fees(Rs/ESCert)	20

Forms Required

ESCert Membership

Existing Member (Electricity/REC):

- ✓ *No Forms required*

New Exclusive Member

- ✓ *IEX Membership Application Form.*
- ✓ *Bio data*
- ✓ *Net worth Certificate (Proprietary member exempted)*
- ✓ *Shareholding Pattern.*
- ✓ *Board Resolution.*
- ✓ *Membership Undertaking.*
- ✓ *Details of Client & Settlement Bank account.*

ESCert Client

Existing Client (Electricity/REC):

- ✓ *Client Registration form(Member to Exchange).*
- ✓ *Risk Disclosure Document*

New Exclusive Client

- ✓ *Client Registration form(Client to Member).*
- ✓ *Client Registration form(Member to Exchange).*
- ✓ *Member client Agreement*
- ✓ *Risk disclosure document*
- ✓ *Undertaking by client of Professional member.*
- ✓ *Client Request for change of member.*

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Bulletin

THANK YOU for kind attention !!

- ✓ **“Leaders in Power Market Development”- 2014 | 2015**
Council of Power Utilities
- ✓ **“Exchange of the Year”- 2014**
Power Business View, a First View Group Venture
- ✓ **“Best Power Exchange in India” – 2012 | 2013 | 2014**
Enertia Foundation
- ✓ **“Best Performing Power Trading Company/Exchange” – 2012 | 2013**
Power line
- ✓ **“Innovators in Product and Technology”- 2013**
Inc. India
- ✓ **“Best E- Enabled Consumer Platform” - 2009**
Inc. India

