

Unified Energy Interface (UEI)

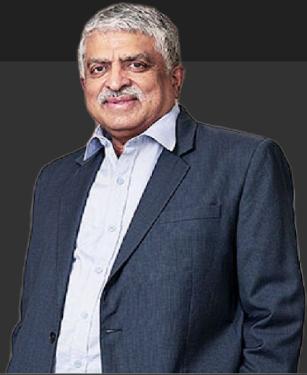
With **beckn**



Anirban Sinha
Co-creator, UEI
Principal, Open Market Innovations, FIDE

beckn

the *language* of
economic exchange



Nandan Nilekani

Co-founder & Promoter



Dr. Pramod Varma

Co-founder & Chief Architect



Sujith Nair

CEO & Co-founder

The architects of **India's digital transformation**

1.38bn

Aadhar IDs
registered

106bn

Aadhar
authentications

16.5bn

UPI monthly
txns

350mn

FasTag monthly
txns

9.02bn

Documents
issued in
DigiLocker

150mn

Orders on
ONDC

Learnings from India's Techade



Design for Diversity

Instead of 'scaling what works', design 'what works at scale'



Distribute Solving

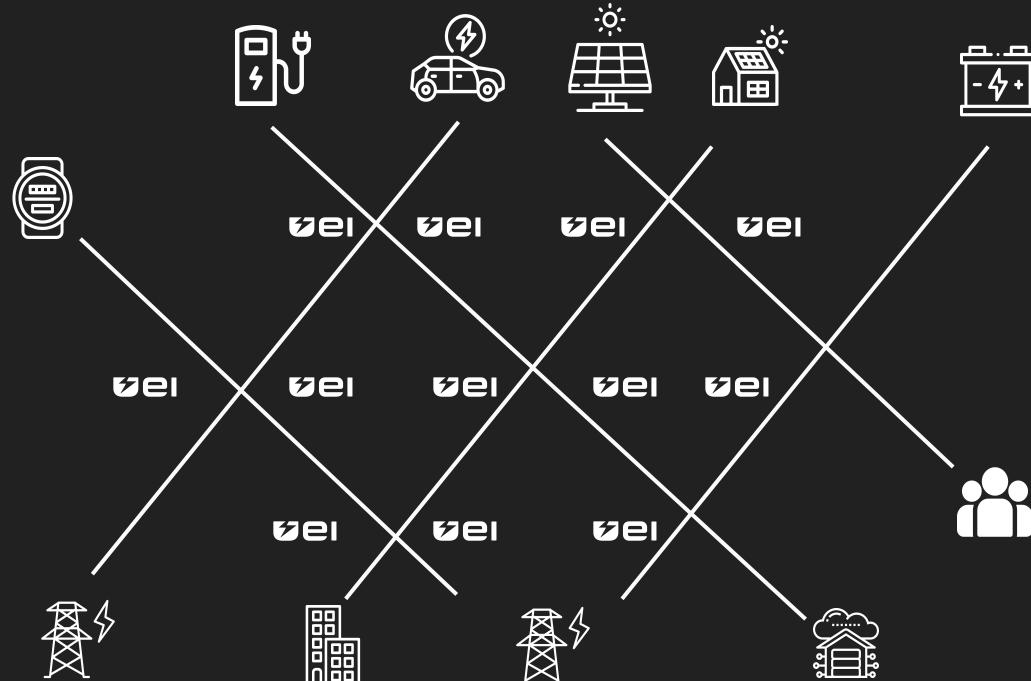
Don't do it yourself, distribute the ability to do- that exponentially impacts the capability



The +1 Thinking @ Population scale

Commitment to continuous small improvements with incremental changes

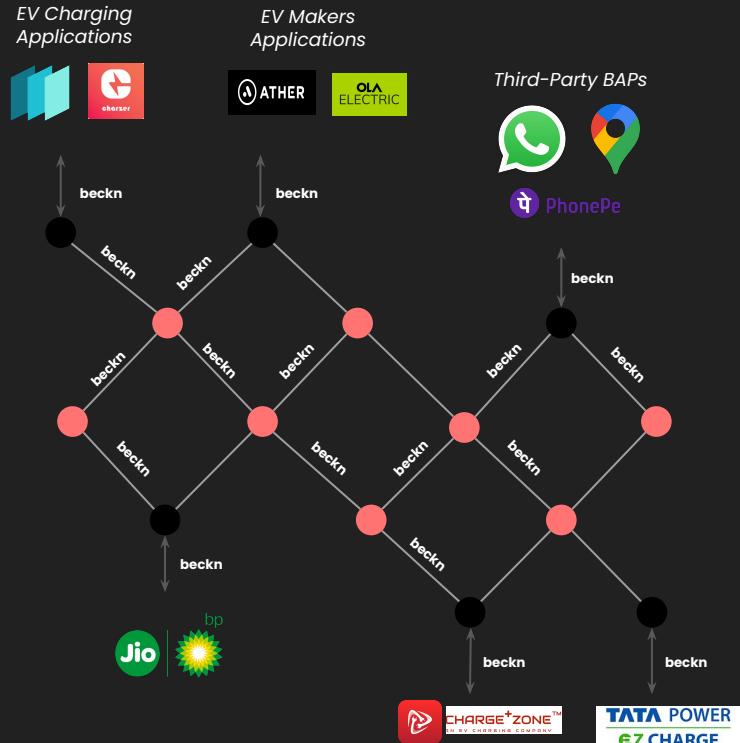
UEI as general purpose energy digital infrastructure unified all purpose specific energy systems



Supercharging e-Mobility with UEI

Enabling Providers

-  Enhanced discoverability
-  Utilisation optimization
-  Investable & sustainable business



Empowering Consumers

-  Dense network
-  Less range anxiety
-  Smaller batteries & Low-cost cars

Effective Solarisation with UEI

Enabling Providers

Enhanced discoverability


Expanded Marketbase


Streamlined operations


Manufacturers & Installers



Financiers



Subsidy Providers



Empowering Consumers

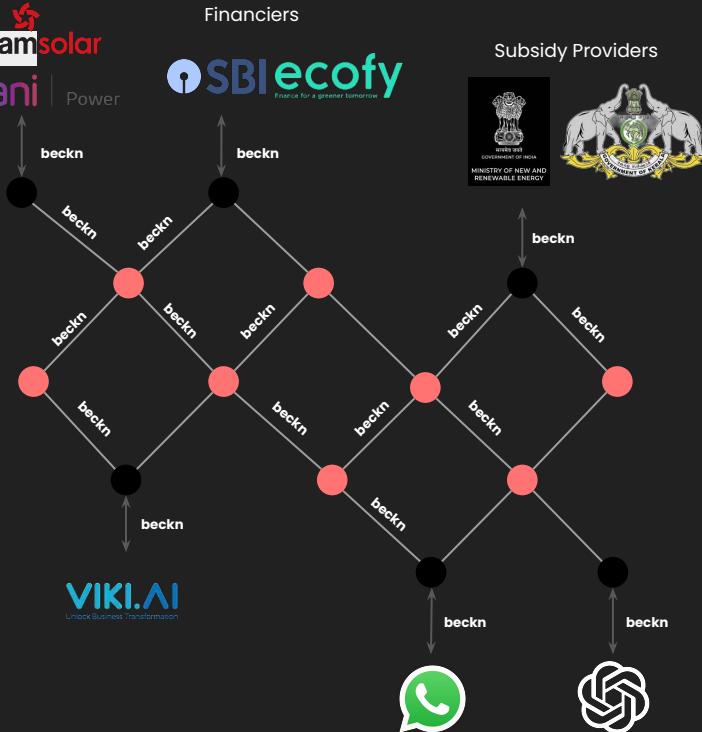


Single window clearance

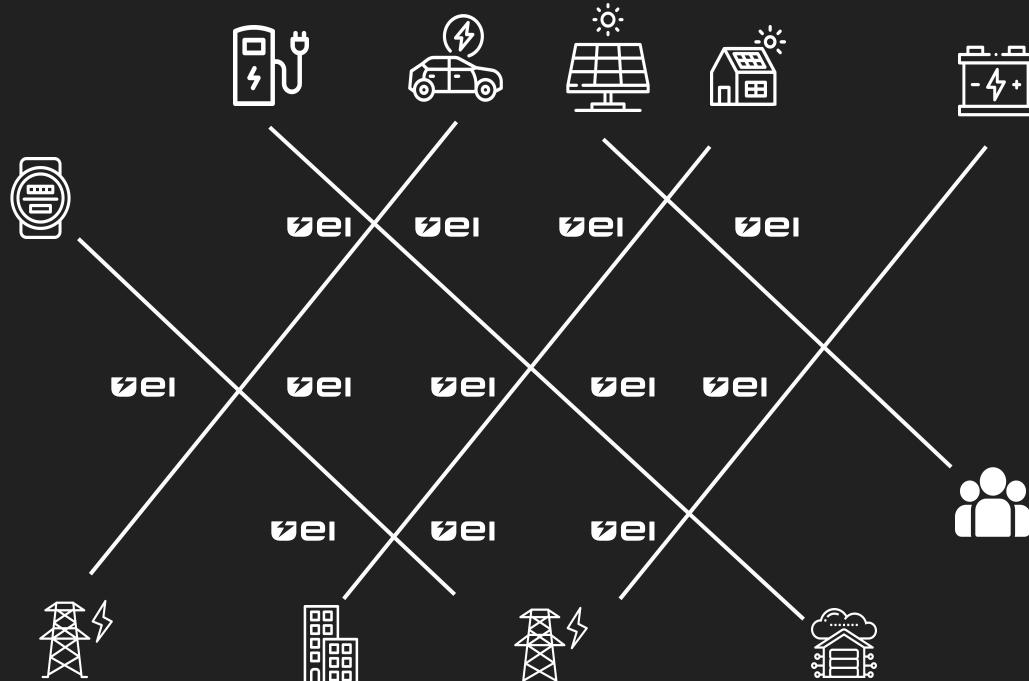

Reduced turnaround time




Digitized E2E process



UEI as general purpose energy digital infrastructure unified all purpose specific energy systems



Standards & Interoperability

as the bedrock of our modern civilisation

A, B, CZ

230V, 50Hz

Mtr, cm, mm

Population scale digital systems exist solely on open standards & interoperability

TCP/IP

HTTP

UPI

50+ Bn Devices

60Bn+ Webpages*

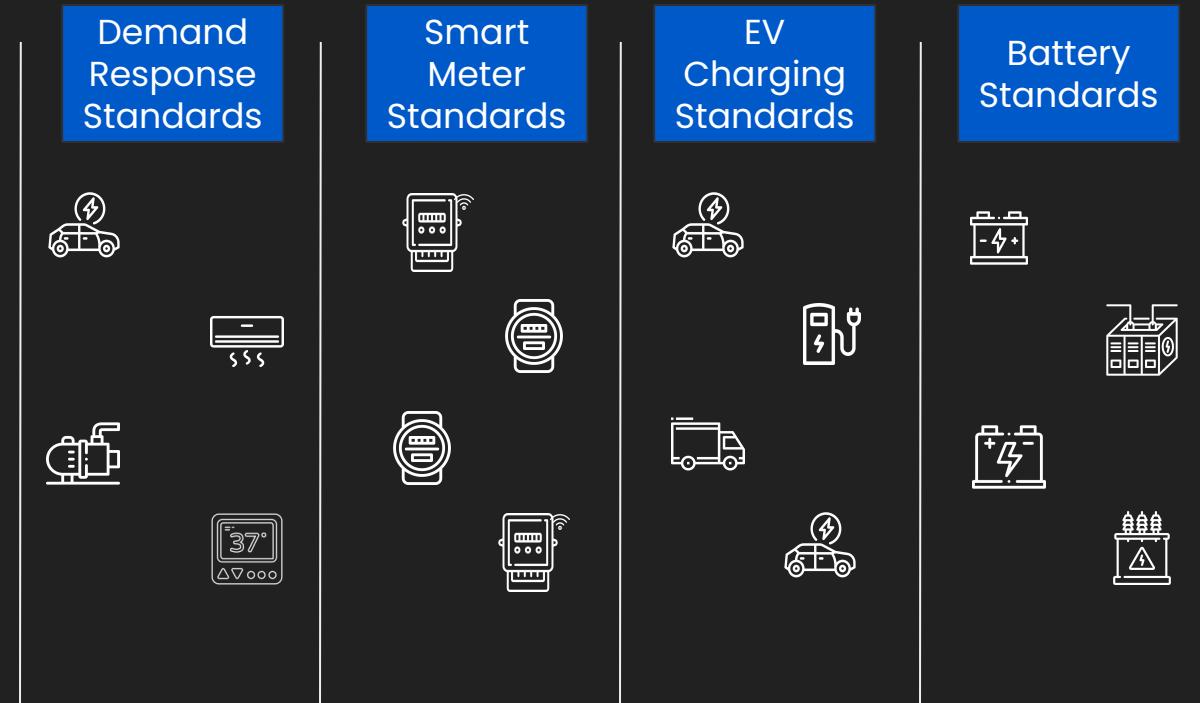
16Bn Txn /Month



beckn

A vision for
value exchange (transactions)system using
a universal digital infrastructure,
empowering people & businesses

Standards creating parallel trenches ..



UEI elevates and unifies all purpose specific digital energy standards



Demand Response Standards



Smart Meter Standards



EV Charging Standards

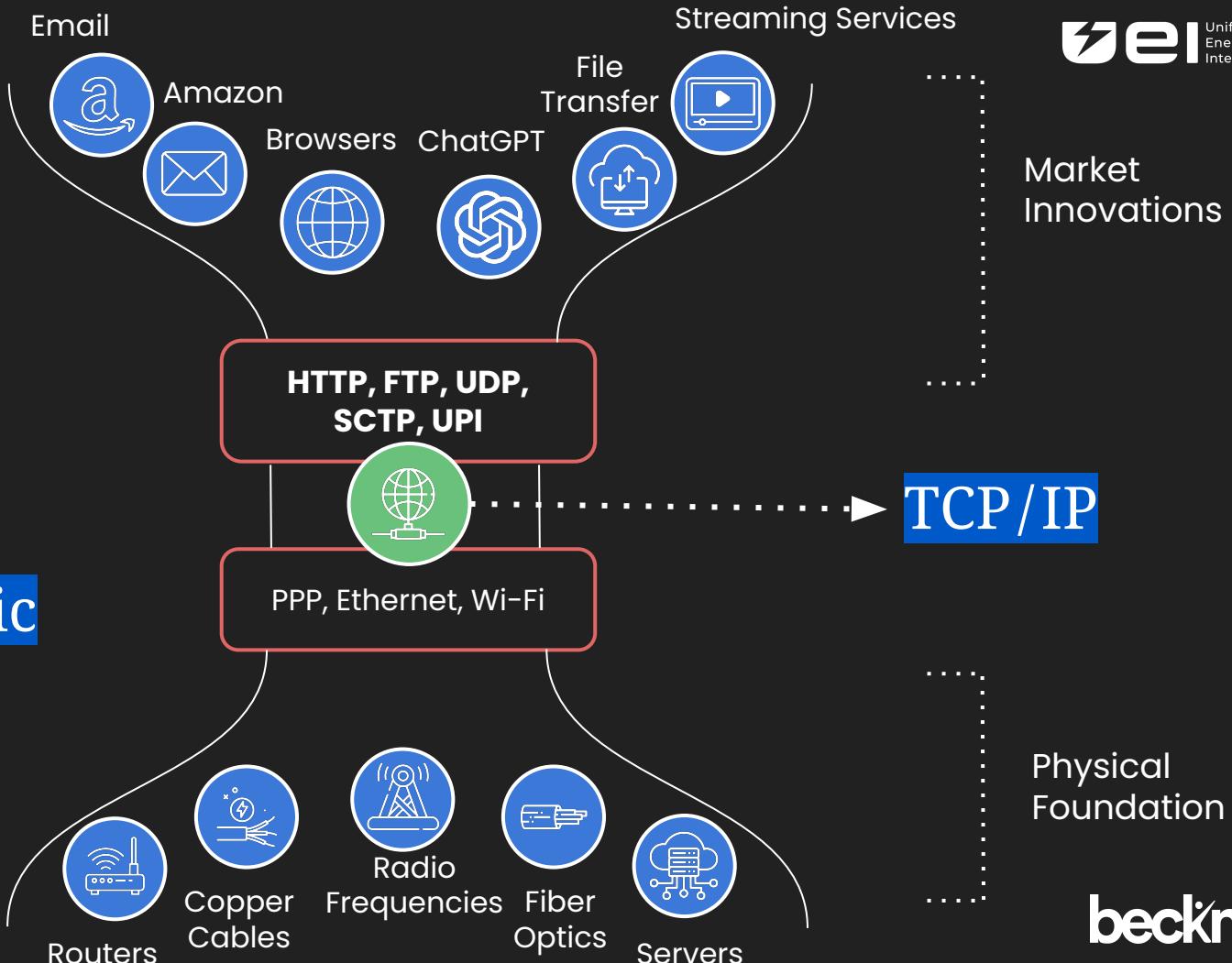


Battery Standards

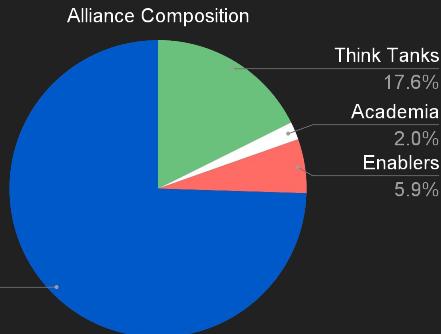
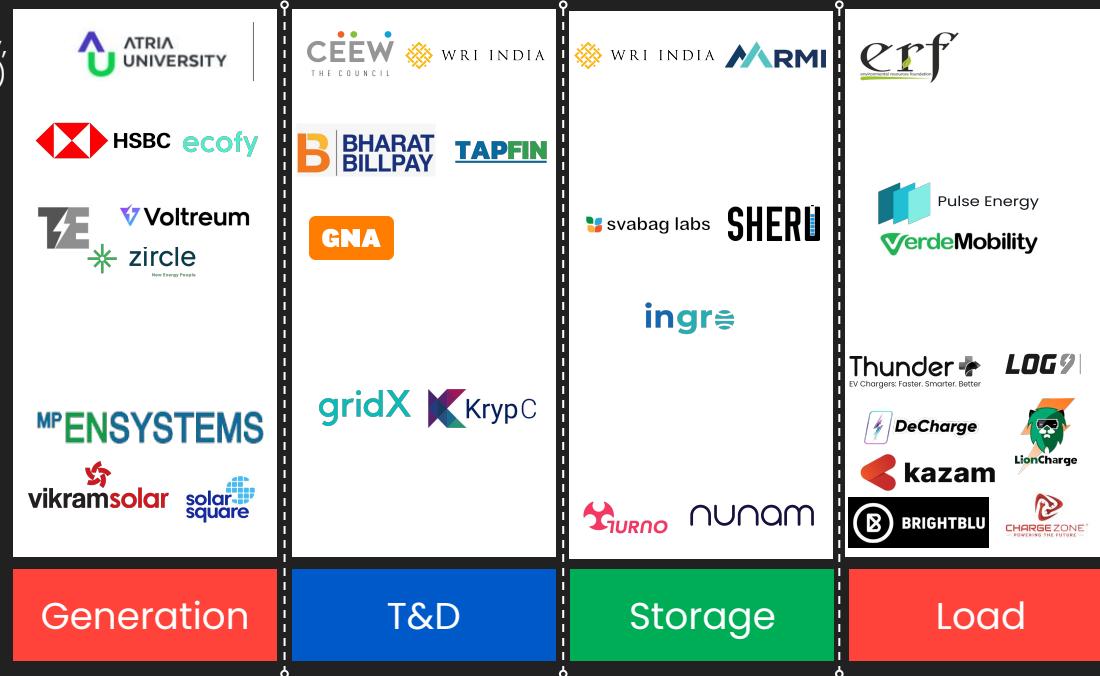


on **beckn**

Foundational standards, supercharge purpose-specific standards



The spectrum of participation



UEI Adoption in numbers



7+

Application & Platforms

50+

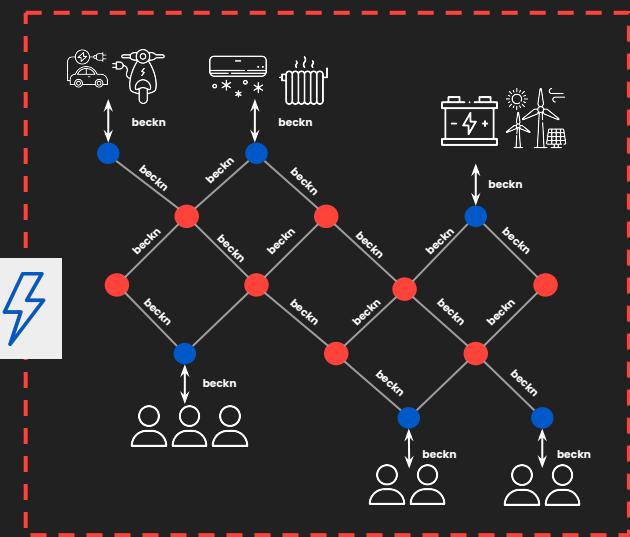
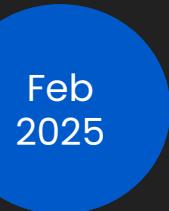
Total Members

~16K/day
Avg.
Transactions

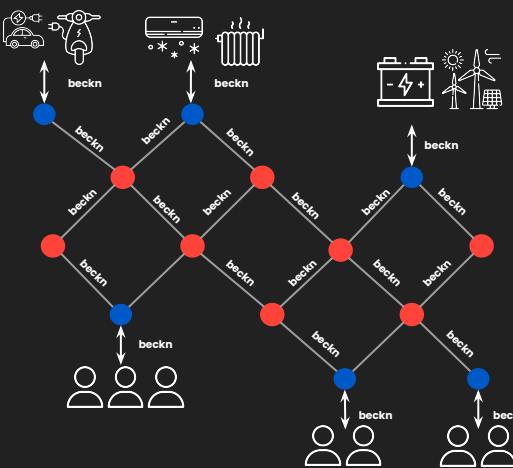
~3.2 Mn
Total UEI
transactions

~67 MWh/day
Avg. energy
dispensed

~16+ GWh
Total energy
dispensed



UEI is unlocking innovation across markets & geographies


 Unified
Energy
Interface


Feb '25

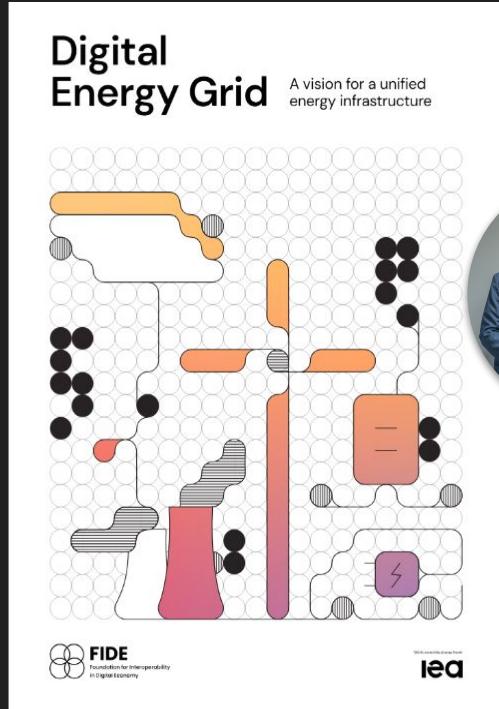
~3.2 Mn
Orders on UEI

~16+ GWh
Energy dispensed

| Geographies | Key Partners | Status |
|---|--------------|-------------------------|
| Electric Vehicle Charging PAN India Kerala Delhi NCR | | Live Scaling |
| P2P Energy Trading Uttar Pradesh Delhi NCR | | Tech Integration |
| Demand Response Delhi NCR | | Architecture Design |
| On-demand Storage Karnataka Maharashtra | | Architecture Design |

Launch of global vision with IEA

February 12, 2025 | Paris



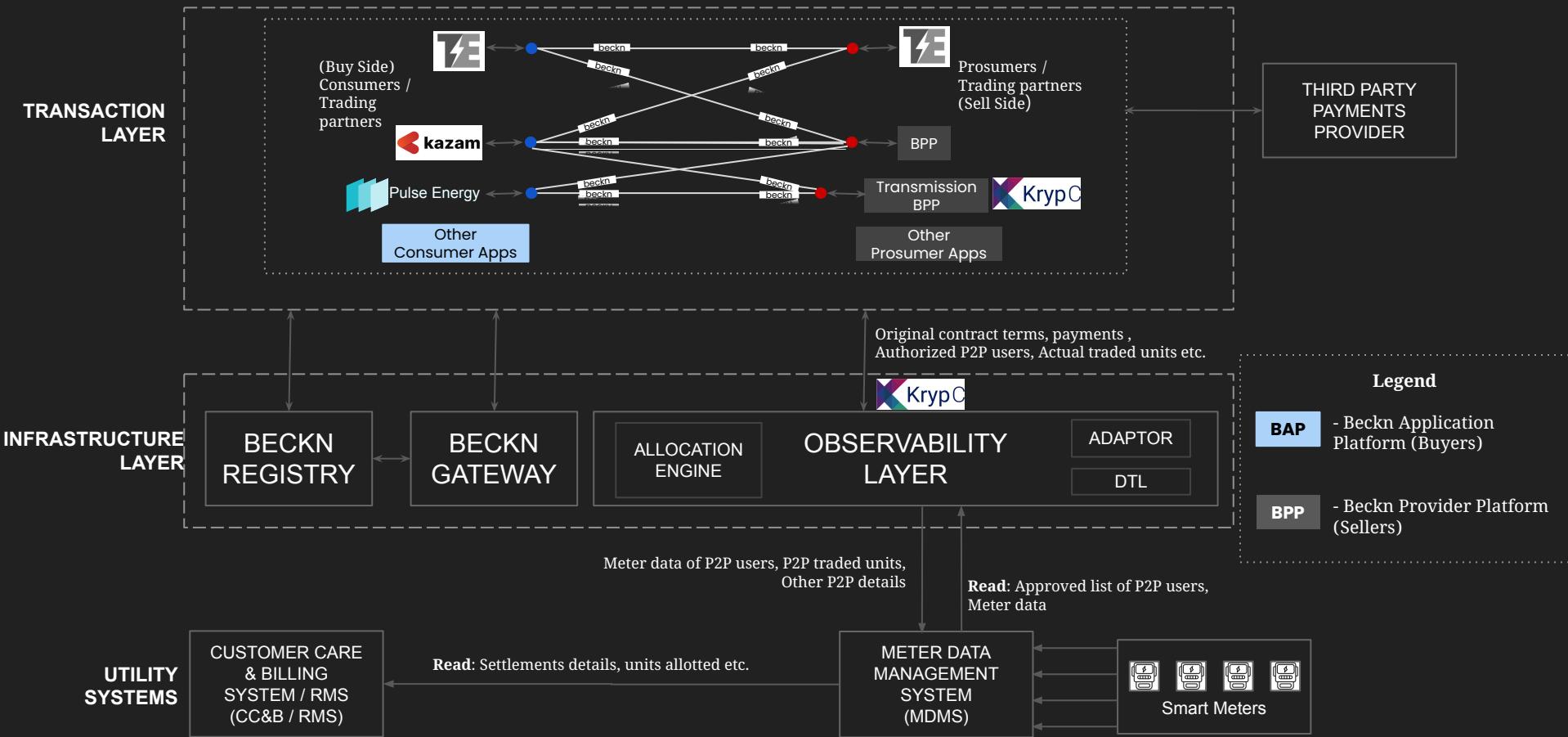
energy.becknprotocol.io



Read the paper at -



P2P Energy Trading Architecture



Thank you



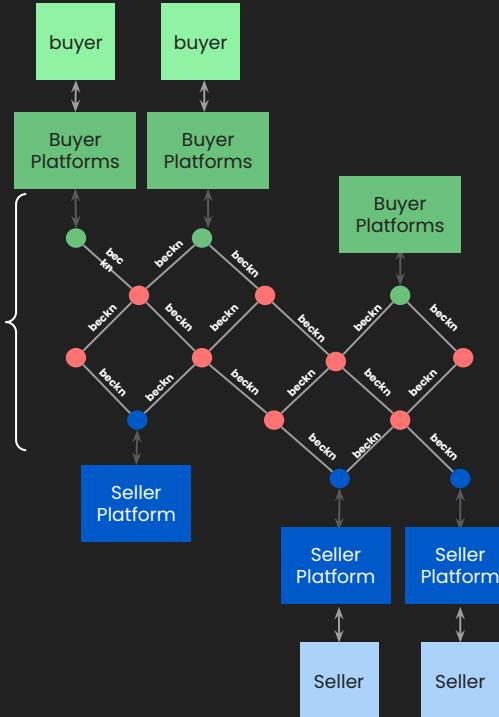
Anirban Sinha
Co-creator, UEI
Principal, Open Market Innovations, FIDE

 anirban@becknprotocol.io

An Open *Decentralised transaction Protocol* for digital economy

open network
ecosystem

beckn
Open Source Specifications



Open Networks as the universal digital infrastructure



#Monthly Txns: 15 Mn+
Sellers: 764k +
#Platforms: 251 live
Cities: 616+

Open Network for
Digital Commerce



590K+ Registered drivers
10 Mn+ Registered users
~ 78 Mn Rides completed
~ \$ 144 Mn+ Direct earning

Open Network
for Mobility



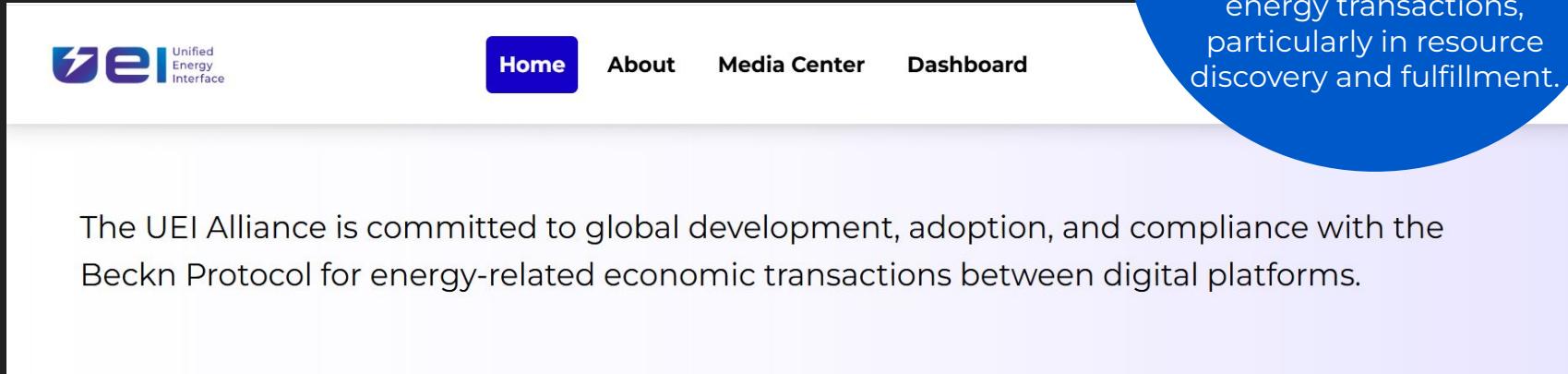
~3.2M* Total UEI transactions (since Feb '24)
~ 16 GWh Total Energy transacted

Open Energy
Network
(* since Feb '24)

UEI Alliance at the forefront of energy transactions



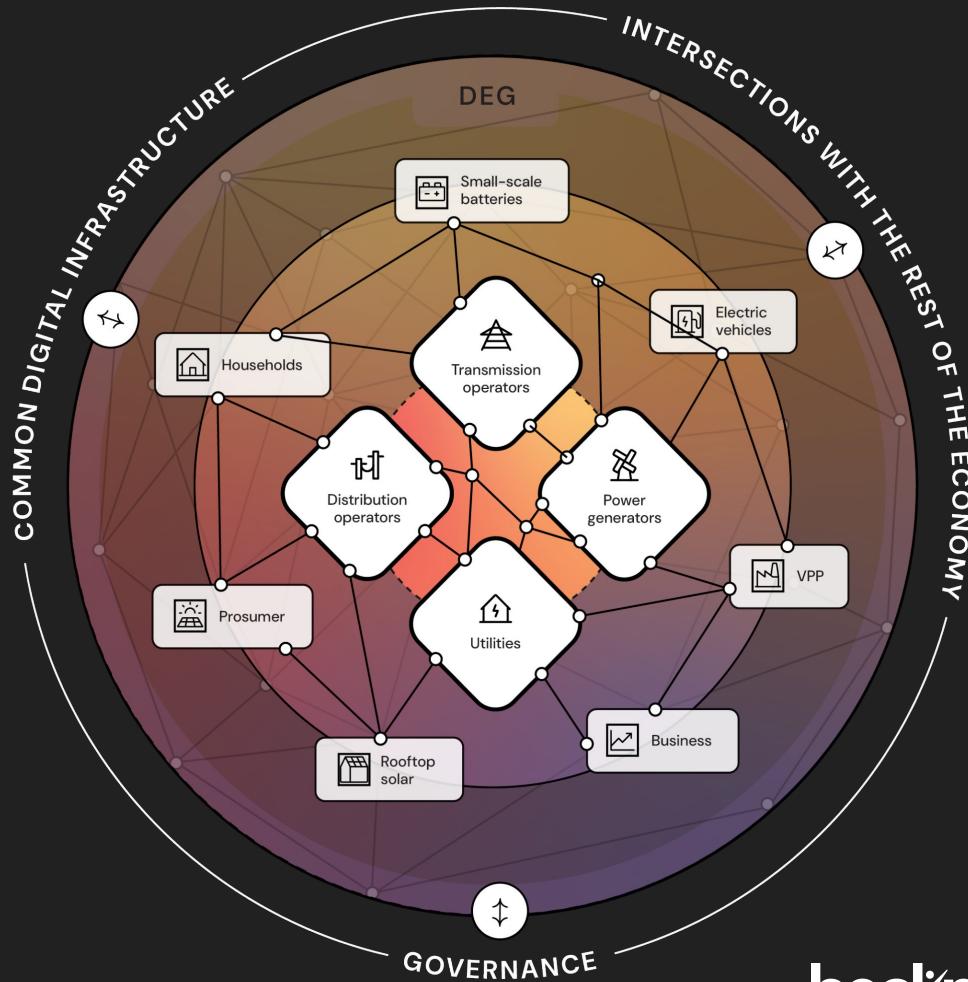
Operating as a market led private consortium, UEI Alliance focuses on evangelising an unified network for all types of energy transactions, particularly in resource discovery and fulfillment.

A screenshot of the UEI Alliance website. The header features the UEI logo and navigation links for Home, About, Media Center, and Dashboard. The main content area contains a large blue circular graphic with the text from above. Below the graphic, a paragraph states: "The UEI Alliance is committed to global development, adoption, and compliance with the Beckn Protocol for energy-related economic transactions between digital platforms." A URL link is provided at the bottom of the page.

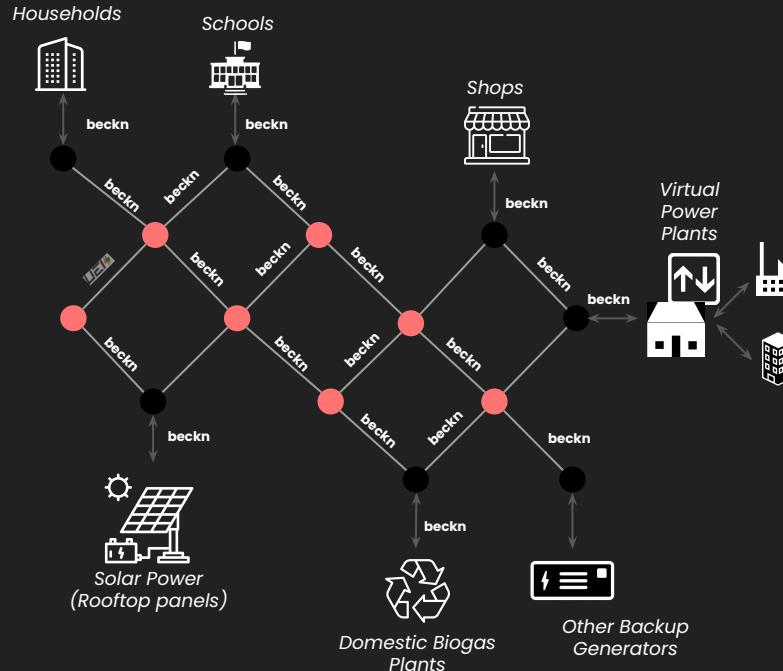
The UEI Alliance is committed to global development, adoption, and compliance with the Beckn Protocol for energy-related economic transactions between digital platforms.

<https://ueialliance.org>

Like roads, or like the internet, **Digital Energy Grid (DEG)** proposes a common infrastructure that interconnects diverse digital energy systems.



Peer-to-peer energy trading: Optimising local energy value through DEG



Self-sustainable supply of energy



Lesser transmission loss-
Better unit economics



Higher utilisation of
renewable resources