

### New Frontiers

**Investment Plan** 

2030





#### Disclaimer

The projections and forecasts contained in this presentation are only intended for NEPRA for the purposes of evaluating and determining KE's Investment Plan for Transmission & Distribution segment. The plan contained in this document is based on expectations, estimates and projections at the time of filing of the Investment Plan to NEPRA that could differ from actual results or events owing to business and operational risks and change in scope and circumstances.

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### 5 MA

Customers by 2030















# **= 2005** and rebranded







# **E** 2005 and rebranded Better known as



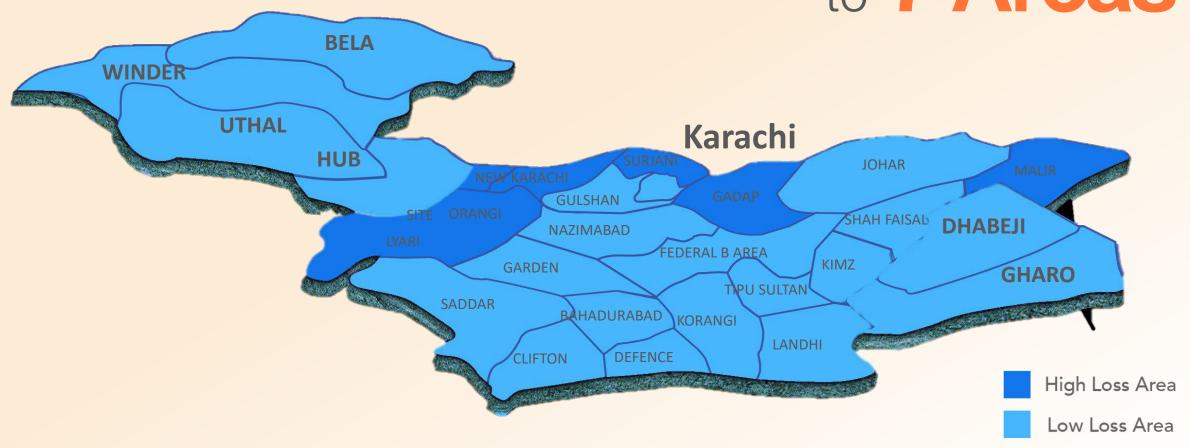
Def: the energy an object possesses due to its motion.





80 MV

to 7 Areas





### DOUDEC Customer Base

From 1.8M to **3.4M** 

Power Consumed

From 8.5 BN kWh to 16.7 BN kWh

Distribution Infrastructure

From 3,882 MVA to **8,685 MVA** 

### Halved T&D Losses

From 34.2% to **15.3%** 

Improving beyond NEPRA'S Benchmark of 15.95%

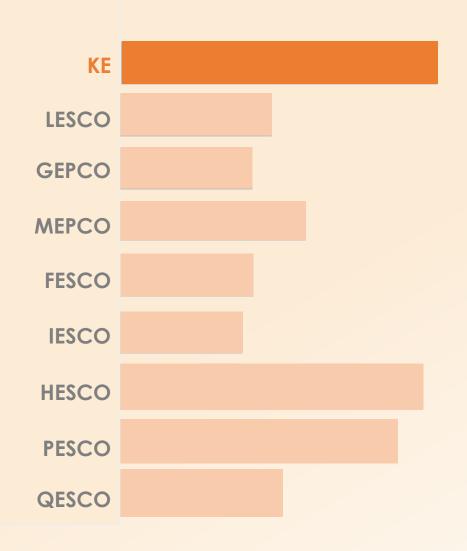


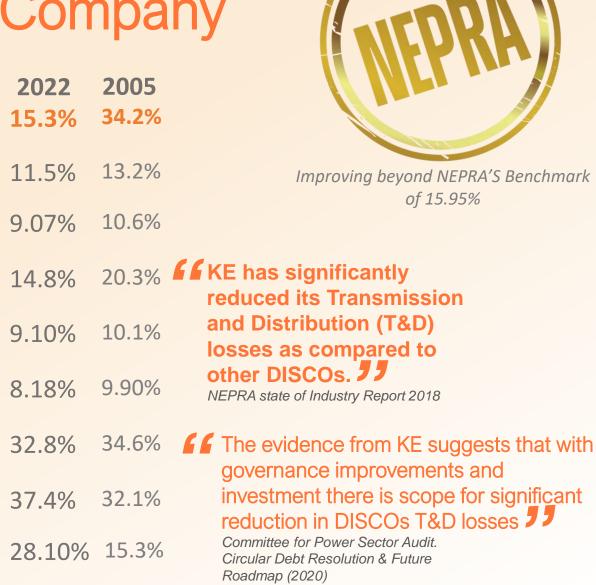
#### Boosting Industrial Growth

Through 2X Power Supply 3,000 GWh in 2005 vs 5,800 GWh in 2022



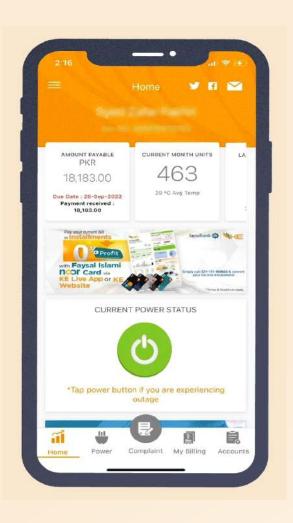
## KE recognised as the most improved Distribution Company





#### nnovation Achieved through Industry First





**40% PMTs** Converted to Aerial Bundled Cables

100% Industrial Customers
Transitioned to Smart Meters

100% Meter Reading through Digital Handheld Units

Only power utility to offer bilingual WhatsApp service

Dedicated digital KE Live app



Industry

1 St

- to deploy Smart Meters on all PMTs & Feeders
- to implement Mobile Device Management System
- to digitize the entire High-Tension network on GIS





Achieved

2005

2022

Supply



2,200 MW **1** 3,380 MW

Generation Efficiency

30%



39%

Grids

52



71

Distribution **Transformers** 

9,200



30,000

Feeders

1,000

2,000



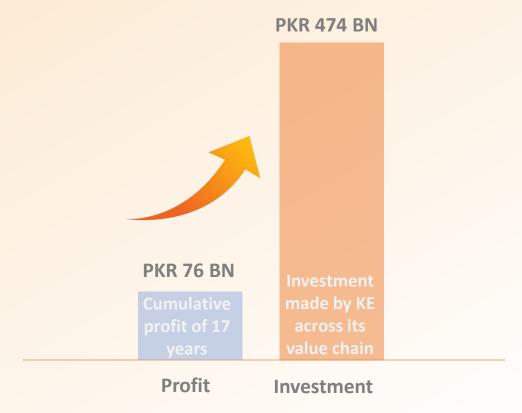
### Continuous Investment across the Value Chain

PKR 474 BN Investment vs. PKR 76 BN Profit

All profits reinvested in strengthening power supply NO DIVIDENDS PAID to investors in 17 years

Investments

Higher than Profit





Through an

# INVESTMENT of 474 BN PKR

made across the value chain





### With the most-recent 900 MW power plant ENERGISED



Amongst Pakistan's TOP 5
Most Efficient Power Plants

### Spurred Investments

to enhance transmission capacity





#### PKR 123 billion

invested

- 19 Grids added to KE fleet taking total to 71 including 2
  Mobile Grids
- 250+ kms of EHT network added

220 kV Grids = 10 132 kV Grids = 58 66 kV Grids = 3



### With the latest being **500KV** KE KANUPP Interchange (KKI) Grid



Easy access to 65 physical touchpoints

✓ Upgraded 27 touchpoints & added 38

**Enabling 24/7 accessibility & real** time update through 7 digital touchpoints

118 WHE O II WHE Website



**Industry First to offer** Cashback

400k+ Customers availed the offers till date

**Industry first partnership** with banking channels

Unique payment Solution Becoming 400 and less along Putting **Customers** at the **Heart** of our **Business** 



**Over 40 payment partners** 





















#### **Before**





#### **After**





#### After







**State of the art Mega Customer Care Centre** 

**Accessible Mobile Centres** 

New & Improved CCCs & CFCs

27 Custome Centre

25 Customer Facilitation
Centre

11 IBC on Wheels

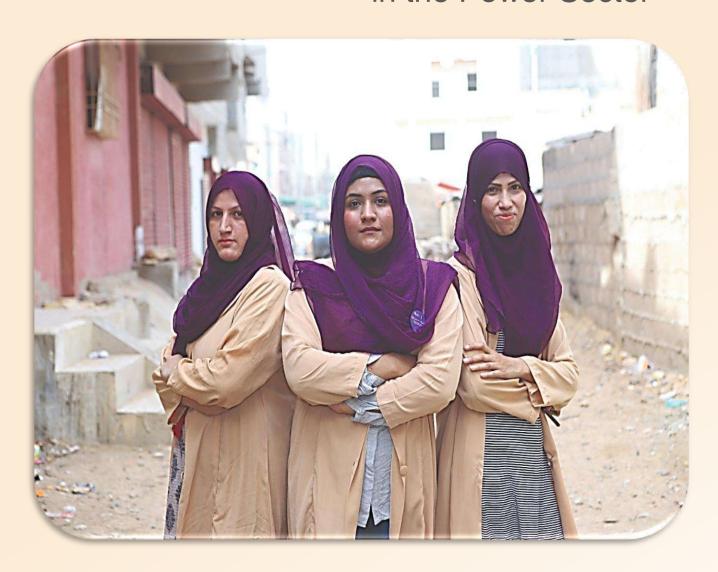




communications platforms

### Breaking Gender Barriers in the Power Sector





#### Roshni Baji

NEIGHBOURHOOD WOMEN AMBASSADOR INITIATIVE

150 Women Empowered





MKE

FIRST in the Power Sector

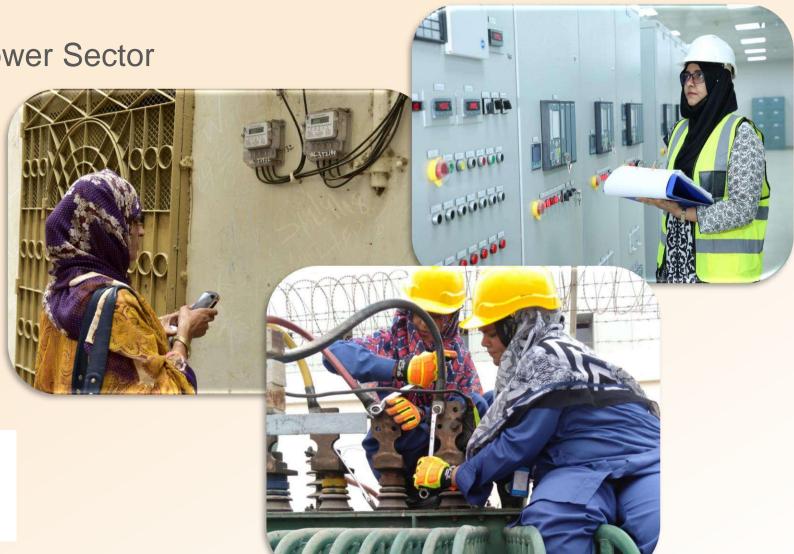
37 Meter Readers

9 Grid Operators

1st Lineswomen Coming Soon!

In a first, Pakistani power company appoints five women grid operators





### CONTRIBUTING TO PAKISTAN'S 2030 TARGETS











Ensure access to affordable, reliable, sustainable and modern energy for all

# Requires a Robust Investment Plan



Expected demand by 2030 is

5,000MW



#### WE AIM TO ACHIEVE







### Growth in Our Customers







Reduction in Power Outage



We embark towards New Frontiers with an

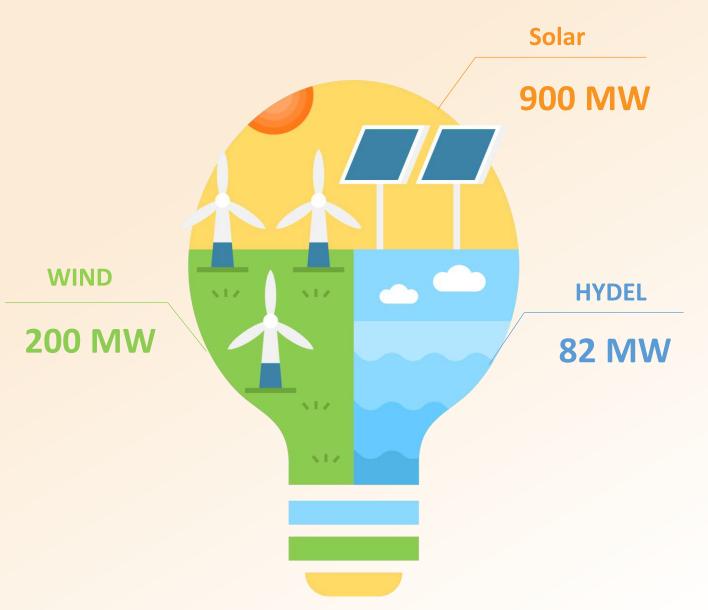
### INVESTMENT

Plan of

PKR 448 BIN



Adding Renewables



#### With Innovative Solutions



#### Pakistan's first 500 MW Floating Solar

- Expected commissioning by 2025
- Financed by World Bank

MARKETS

Pakistan's first 500MW floating solar power plant to be installed at Keenjhar

Will start generating electricity in a span of two years

BR Web Desk Published July 8, 2022

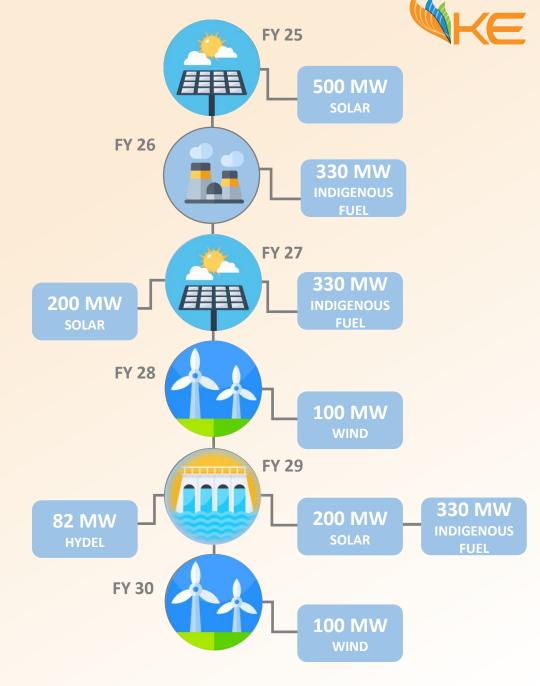




Subject to finalization of wheeling regulation

#### Adding a total of

to Generation Capacity





## c. 30%

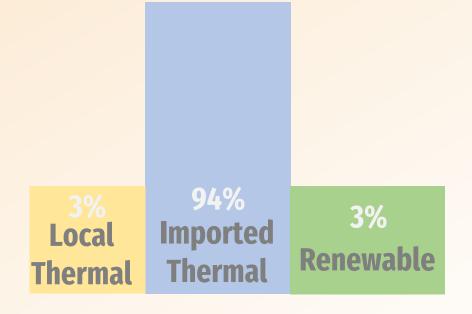
# Share of Renewables to Generation Capacity











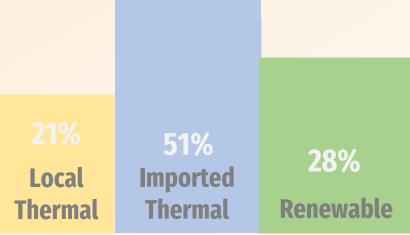


#### Share of Renewables to Generation Capacity

Reduced reliance on imported fuel







Power supply capacity enhanced to

6,715 MW (including National Grid)



in distribution

- Advanced Distribution
  Management System
- GIS (Geographical Information Systems
- Mobile workforce Management
- Advance Analytics & Artificial Intelligence





#### Enhancing Access



Addition by FY30'

Addition of 2,172 MW
Generation
Capacity

13 Grids & 450km
Transmission
Lines

**444**Feeders

7,606
Distribution
Trafos







Total by FY30'

**6,715 MW**Generation
Capacity

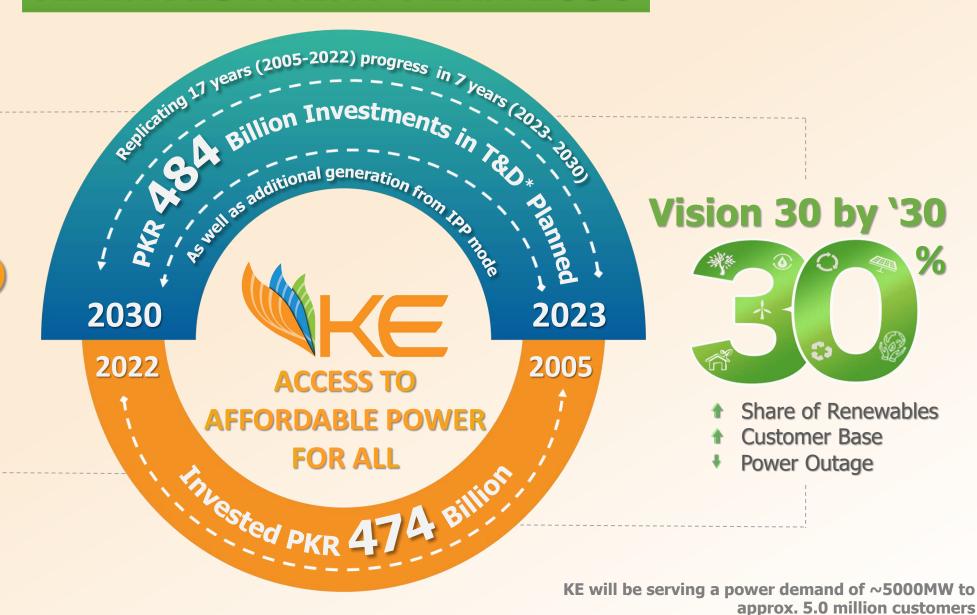
85 Grids & 1,904km
Transmission
Line

2,528 Feeders

38,412
Distribution
Trafos

Interruption frequency & duration reduced by 33% and 29%

#### **KE INVESTMENT PLAN 2030**



\*Transmission & Distribution

Since Privatization

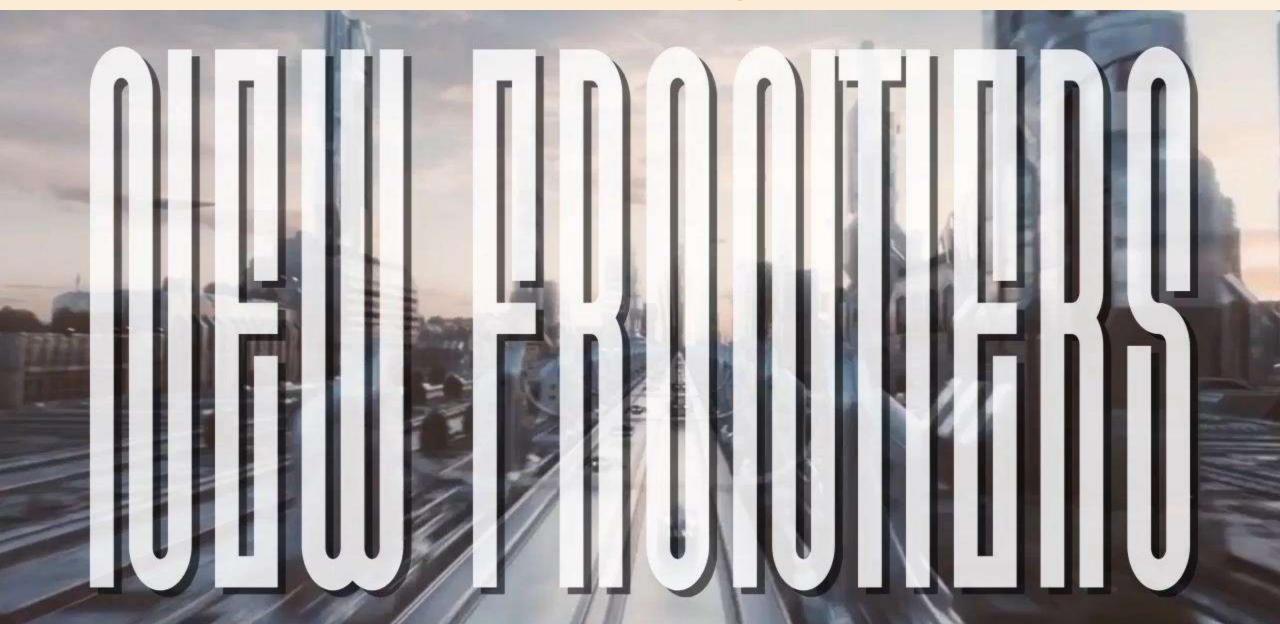
(2005-2022)

Customer Base, Power Consumed & Infrastructure

**T&D Losses** 



#### Join us in our Journey to Conquer



#### Investment plan 2030 subject to MYT approval by NEPRA



- Tenure: 7 Year
- Requested for Unbundled
   Tariff for all Generation
   Plants, Distribution,
   Transmission & Supply

**Multi Year Tariff** 

 Allows variations for macroeconomic & external factors i.e. KIBOR/LIBOR, Exchange rates, CPI, etc.

- Timely execution of planned investments
- Ability to ramp up infrastructure investments based on customerneeds
- Greater transparency for all stakeholders
- Consistent with other utility tariffs

 Scope review has been proposed after every 2 years to account for the changes required due to demand growth, technology and other factors