Line Control C

#### Integration and Planning

### A case of Pakistan

Hamza Naeem Energy, Water and Climate Change Program Institute of Policy Studies, Islamabad-Pakistan

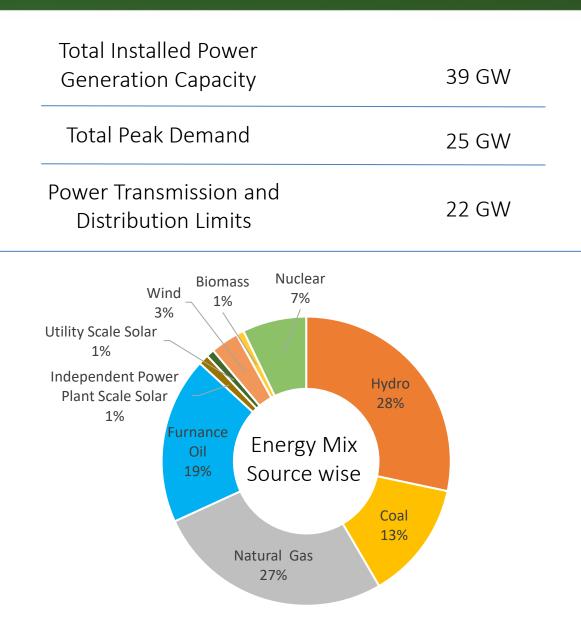


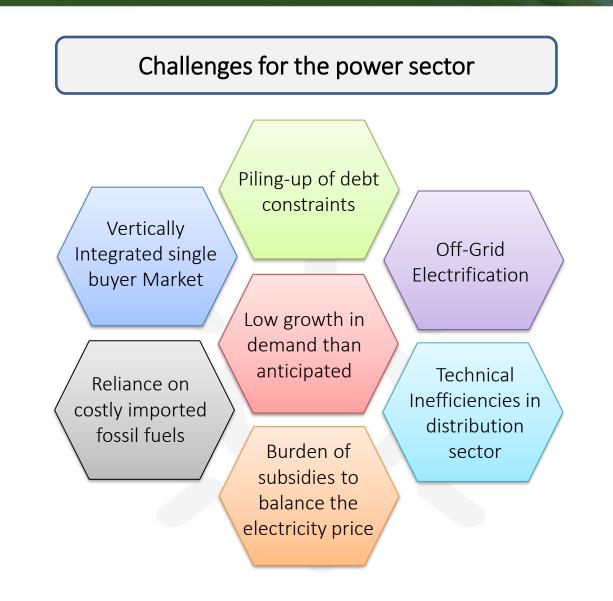






# **Power Sector of Pakistan- An Overview**





#### **Renewable Energy Transition in Pakistan- A Cogent Case**

The upraise of renewable energy integration to 30% is mandated to be achieved by year 2030

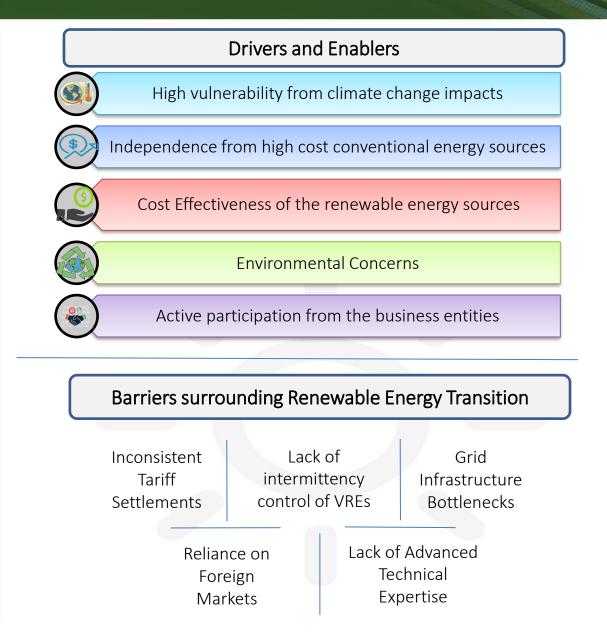
To achieve the targets, the regulatory bodies and facilitating organizations are working ambitiously

#### **Milestones Achieved**

Adoption of Alternative and Renewable Energy Policy, 2020

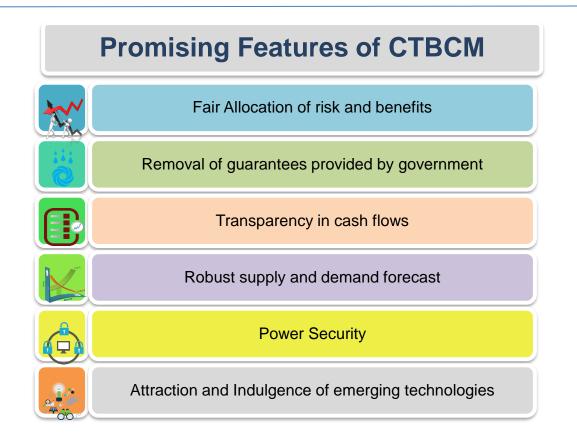
Roof-top solar adoption has reached to the level of 310 MW attached with the utility grid

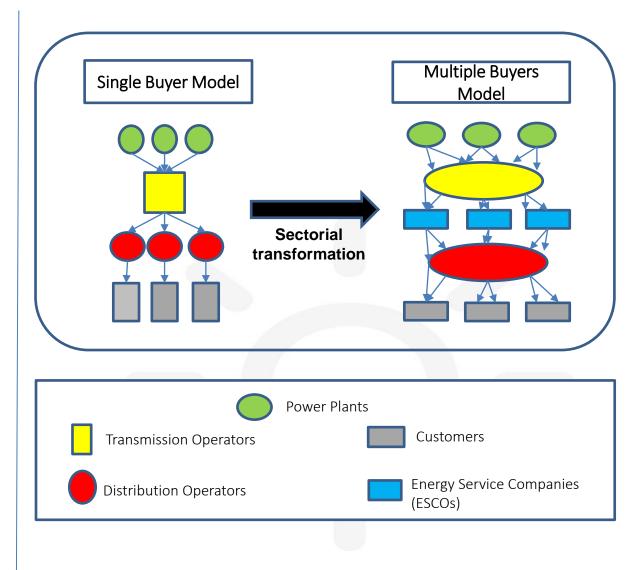
15 GW of renewable energy based power projects are committed to be integrated by year 2030



# Integration Strategy and Planning! Market Transformations towards multiple buyer model

The market transformation towards Competitive Trading Bilateral Contract Markets (CTBCM) is going to be evidently realized in year 2022

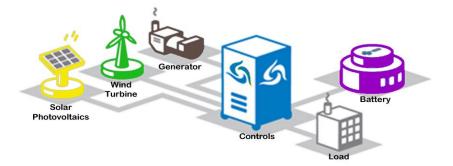




# Integration Strategy and Planning! Transformational Changes and Incitation of new techniques

A massive portion (about 62%) of the population resides in rural areas

In the whole, about 35% of the residents lack electricity provision, or resides in weak grid areas

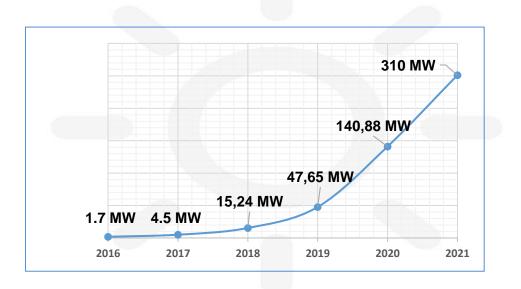


The Micro-grids and Mini-grids are to be incorporated for the electrification of far-flung areas where grid connectivity is lacked

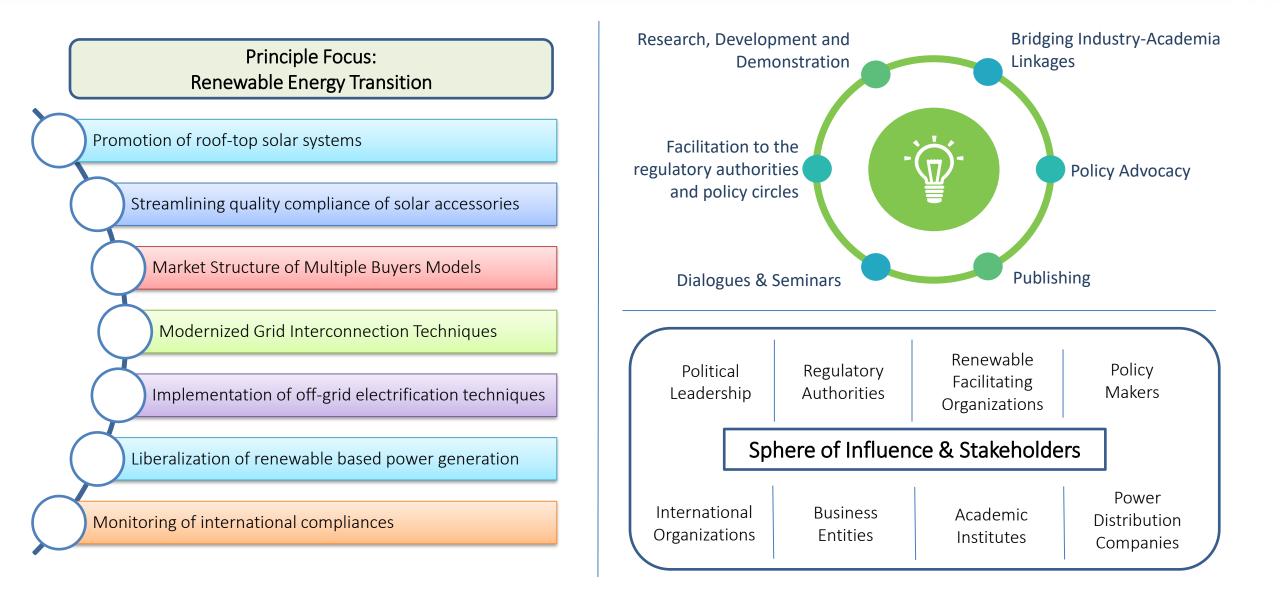
# Solar Photovoltaics based Distributed Generation- A prospective electricity policy

Roof-top solar systems are on mushroom growth, in adoption by residential, commercial and industrial consumers of the utility grid

A rise of more than 170% in a year !!!



# How Institute of Policy Studies (IPS) moves the needle forward





## Let's make our effort for cleaner, green and sustainable co-existence