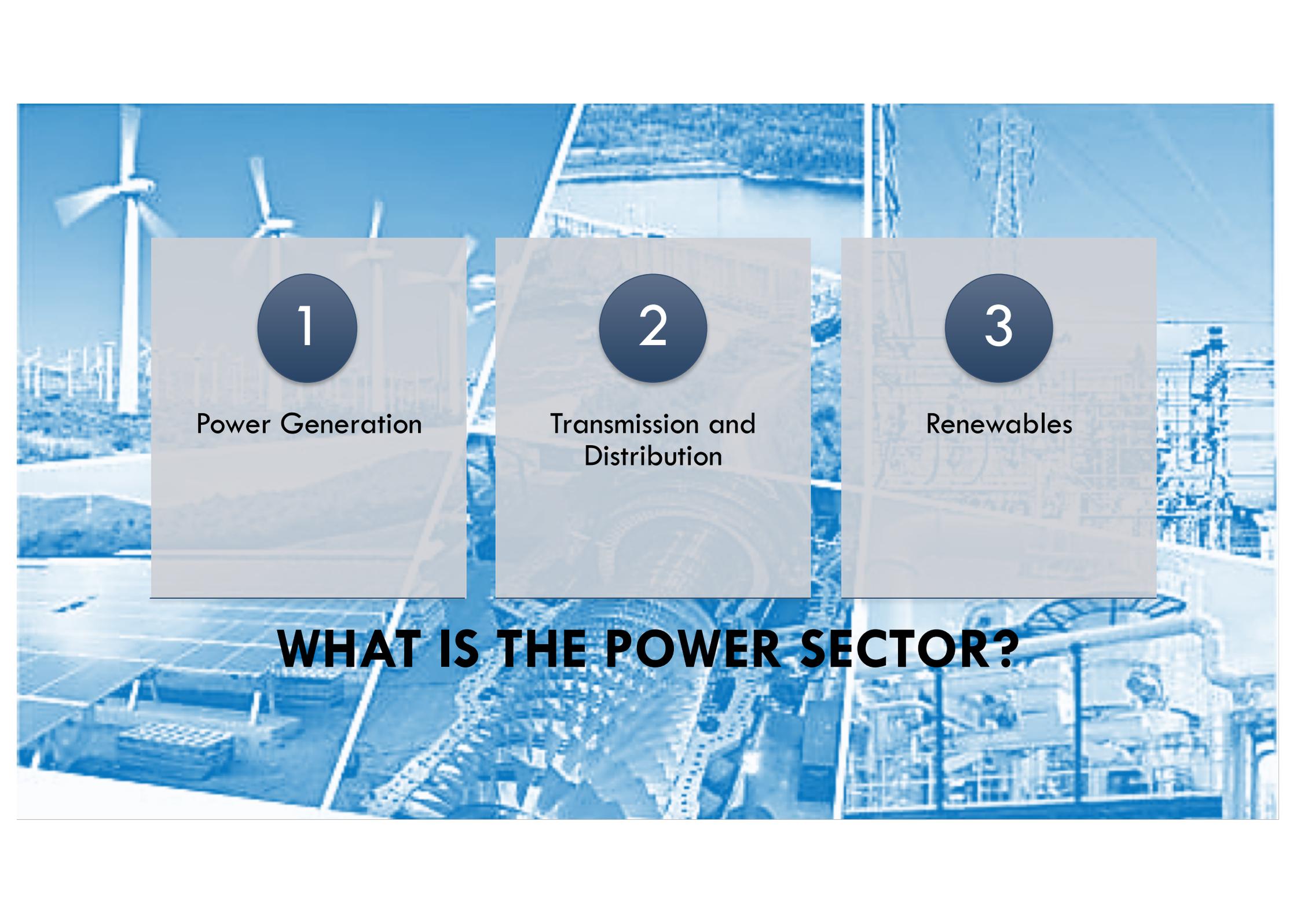




HEALTH AND WELFARE

A VIEW FROM THE POWER SECTOR

MARK KENYON 28 JAN 2018



1

Power Generation

2

Transmission and
Distribution

3

Renewables

WHAT IS THE POWER SECTOR?

Risk Management Cycle



RISK MANAGEMENT CYCLE

- AN INTEGRATED APPROACH THAT INCORPORATE HSE (HEALTH, SAFETY AND ENVIRONMENT)
- MORE FOCUS ON THE **H** NOT ONLY THE S & E
- OFTEN IGNORED BECAUSE THE AFFECTS ARE LONG TERM NOT IMMEDIATE AND APPARENT
- WELLBEING – WHATS THE BENEFIT?

RISKS TO HEALTH AND WELLBEING

INTERNAL

- NOISE
- ERGONOMICS
- HEAT AND WORKPLACE ENVIRONMENT
- HAZARDOUS SUBSTANCES
- RADIATION
- ASBESTOS
- WORKING HOURS
- STRESS

EXTERNAL

- CLIMATE
- ASBESTOS
- ELECTROMAGNETIC RADIATION
- RADIATION
- WATER QUALITY



Regulatory Requirements

(FEWA DEWA, ADWEA, ADWEC, SEWA, CICPA etc.)

Design of plant structures systems and components

Contingency Design

Design Evaluation - HAZOP, QRA, SIF, SIL

PPP Maintenance

External inspections, Condition monitoring etc.

Safety and Environment

Employee Wellbeing

MITIGATION

THE CHALLENGES WE FACE

1

Need to further raise the awareness of power-sector organizations on integrated risk-management practices.

2

Need to broaden resilience responses from a primarily technical engineering focus to those encompassing **Health and Welfare**.

3

Need to coordinate Occupational Health for the power sector with a nationwide plan since **employee wellbeing impacts critical infrastructure**.

4

Need to strengthen the implementation capacity of utilities, policy makers, regulators, and private sector to take adaptive, resilience-enhancing actions.

