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**12TH ASIAN DEVELOPMENT BANK BUSINESS OPPORTUNITIES FAIR 2024**  
9-10 OCTOBER 2024 | 9 A.M. to 5 P.M. | ADB HEADQUARTERS, MANILA

# BOF – Upcoming projects

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# Electrical Infrastructure Upgrade

- ❖ Upgrade of 30+ year old installation.
- ❖ Scope – Replacement of
  - 2 x Primary switchgear with transformer
  - 2 x Medium Voltage Switchgear
  - 1 x Generator synchronizing panel
  - 6 x Generators
  - 6 x Substations with transformers
  - Interconnecting cables and busbars
  - Modern control system for centralized monitoring and control

# PROGRAM BUSINESS CASE: INVENTORY ASSESSMENTS - EXISTING CONFIGURATION

2 x Primary Incoming Switchgear (36.5)  
3 x 36.5V Circuit Breakers each

1 x MV Switchgear – Chiller Operations  
11 x Disconnect switches

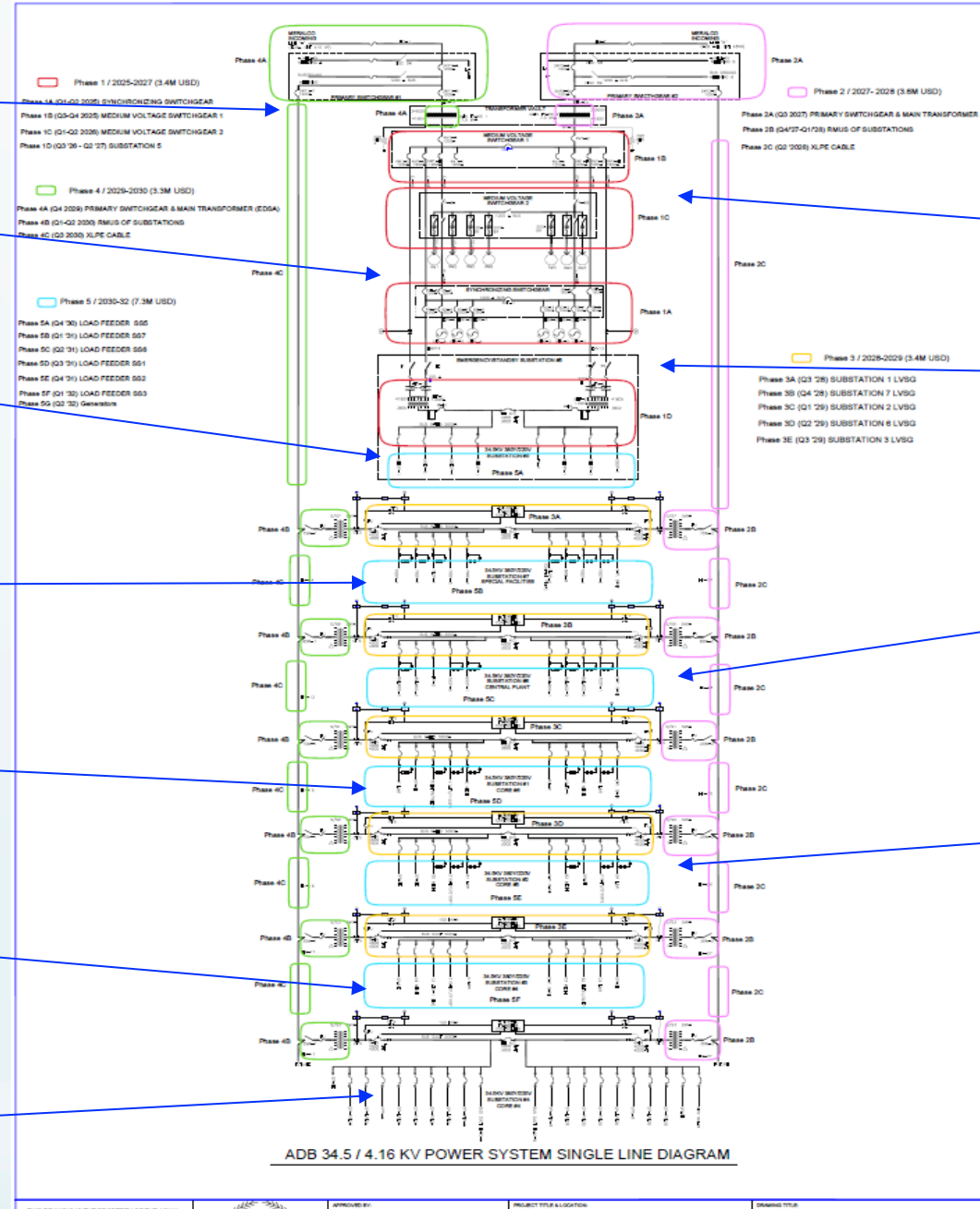
Substation #5 serving SFB  
2 x 4.15kV – 380V Transformers  
13 x Circuit Breakers

Substation #7 serving SFB Core  
2 x 4.15kV – 380V Transformers  
13 x Circuit Breakers

Substation #1 serving East/SE Cores  
2 x 4.15kV – 380V Transformers  
13 x Circuit Breakers

Substation #3 serving West/SW Cores  
2 x 4.15kV – 380V Transformers  
13 x Circuit Breakers

Substation #4 serving 3rd Atrium –  
Excluded – 2014 installation



1 x Medium Voltage Switchgear (4.15V)  
2 x 36.5V-4.15kV Transformers  
11 x Circuit Breakers

1 x Generator Synchronizing Switchgear  
13 x Circuit Breakers

Substation #6 serving SFB Core  
2 x 4.15kV – 380V Transformers  
13 x Circuit Breakers

Substation #2 serving North/South Cores  
2 x 4.15kV – 380V Transformers  
13 x Circuit Breakers



# ELECTRICAL UPGRADE PROJECT

## ❖ Key points to note:

- ADB HQ is to remain operational during upgrade
- Includes all enabling works
- Sustainability is a key driver

## ❖ Procurement

- Intent to appoint one General contractor for supply and installation.
- Other for trade-in of existing equipment, cables, etc.

## ❖ Timeline

- Expected to commence in 2025 and phased over 5-6 years subject to approvals



# OTHER ELECTRICAL INFRASTRUCTURE INITIATIVES

- ❖ Introduction of EV Charging
- ❖ Expansion and Upgrade of Solar Farm at ADB HQ and Clark
- ❖ Electrical Panel Board replacements
- ❖ Energy Monitoring and Optimization



# OTHER PROJECTS

- ❖ MVAC Equipment Replacement Program
  
- ❖ MVAC Sustainability initiatives
  - Upgrade of existing AHUs and FPU's to reduce energy consumption by at least 25%
  - Implementation of online Indoor Air Quality Monitoring in line with LEED v5
  -



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# Thank you!

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