

IMPROVING ELECTRICITY SERVICES IN YOUR AREA



SUPPORTED BY



FOLLOWING JULY 2023

- ✔ **COMPLETE REPAIRS** OF JULY INCIDENTS
 - CIRCA 80 11-KV CABLE FAULTS
 - 2 SUBSTATION REPAIRS (OUT OF MORE THAN 1,650 SUBSTATIONS)
- ✔ CONTINUE **SIX-YEAR PLAN INVESTMENT**
- ✔ ANALYSE **IMPACTS OF JULY EXTREME WEATHER** ON ELECTRICITY INFRASTRUCTURE
- ✔ PLAN **IMMEDIATE ACCELERATION OF WORKS**
- ✔ SUPPORT GOVERNMENT AND OTHER ENTITIES IN **EX-GRATIA PAYMENTS FOR RESIDENTS AND BUSINESSES**

IMPLEMENTATION OF NETWORK UPGRADE PLAN 2022 & 2023

- ✔ **80** NEW SUBSTATIONS
- ✔ **18KM** MEDIUM VOLTAGE REINFORCEMENTS
- ✔ **44** 11kV SWITCHGEAR REPLACEMENTS
- ✔ **22** 11kV/400V TRANSFORMER UPDATES

- ✔ **145** 400V/230V FEEDERS
- ✔ EXTENSION OF M'SCALA DC
- ✔ EXTENSION OF M'RIEHEL DC
- ✔ EXTENSION OF TARXIEN DC

ANALYSING IMPACTS OF JULY INCIDENTS

- **PRINCIPAL WEAKNESS** – A SUDDEN SPIKE IN UNDERGROUND CABLE FAULTS AFFECTED THE NETWORK'S RESILIENCE, DELAYING RESTORATION
- SUBSTATION AND DC INFRASTRUCTURE WERE **RESILIENT**
- **RECENT NETWORK INVESTMENTS HELPED TO SPEED UP SUPPLY RESTORATION** IN SEVERAL AREAS
- NEED TO ACCELERATE PLANS TO **REINFORCE NETWORK IN CERTAIN AREAS**
- SUDDEN INCREASE IN DEMAND REQUIRES **ADDITIONAL SPARE GENERATION CAPACITY**

**SINCE
AUGUST 2023**



SCHEDULE 3



DNO



**IM
COLLABORATION
TO BOOST
ROAD WORK
EXPERTISE
AND RESOURCES**



**TM
COLLABORATION**



**INCREASED
CONSULTATION
WITH
STAKEHOLDERS**

**POST
JULY 2023**



**COMPLETION OF 2023
NETWORK UPGRADE PLAN**
(WHILE ALLOCATING REQUIRED
RESOURCES FOR JULY'S CABLE REPAIRS)



**PLAN MAJOR
ACCELERATION OF
WORKS IN 2024**

**2022 - 2023
MEDIUM VOLTAGE
REINFORCEMENTS**

**COMMISSIONED
18KM OF NEW 11 KV
(MEDIUM VOLTAGE)
CABLE CONNECTIONS**

**ANOTHER 4.5KM
NEARING COMPLETION**

**2024
MULTIPLYING RESOURCES
TO TACKLE WEAKEST LINK**

**70 KILOMETRES OF NEW MEDIUM VOLTAGE CABLES IN 6 MONTHS
WITH THE SUPPORT OF IM AND TM**

ALMOST 4 TIMES THE 2022-2023 11KV INVESTMENT

**SEVERAL WORKS ALREADY UNDERWAY,
MORE STARTING IN COMING WEEKS**

PRIORITISING JULY 2023 HARDEST HIT AREAS

**NAXXAR REGION – MAXIMISE CABLE CONNECTIONS OF
NEW DC FOR SHORT-TERM GAINS**

2024 IMMEDIATE INTERVENTIONS

IN COLLABORATION WITH IM AND TM

CIRCA 70km OF MEDIUM VOLTAGE CABLES

ŻURRIEQ REINFORCEMENT

AFFECTING ŻURRIEQ, QRENDI, MQABBA, KIRKOP, SAFI

RABAT REINFORCEMENT

AFFECTING RABAT, DINGLI, MTARFA, TA' QALI

MOSTA REINFORCEMENT

AFFECTING MOSTA, NAXXAR, LIA

NAXXAR REINFORCEMENT

NAXXAR DC (NAXXAR, MOSTA, LIJA, GHARGHUR, BURMARRAD)

COTTONERA REINFORCEMENT

AFFECTING BIRGU, BORMLA, ISLA, KALKARA, FGURA

KIRKOP REINFORCEMENT

KIRKOP AREA

ŻABBAR REINFORCEMENT

ŻABBAR, XGHAJRA, FGURA, ŻEJTUN, MARSASCALA

VALLETTA REINFORCEMENT

VALLETTA

LUQA REINFORCEMENT

LUQA, GUDJA, TARXIEN, GHAXAQ

NADUR SAN BLASS SS TO NADUR BUSKETT SS

NADUR

XAGHRA ST JOSEPH SS TO XAGHRA ĠGANTIJA SS

XAGHRA, NADUR

XLENDI SS TO XLENDI ULYSSES

XLENDI

**2024
ACCELERATING NEW INVESTMENTS
WHILE MAINTAINING ORIGINAL 6-YEAR PLAN**

45 NEW SUBSTATIONS

40 UPGRADES OF EXISTING SUBSTATIONS

CONTINUED INVESTMENT IN 400/230V FEEDERS

PREPARATIONS FOR **NEW DCS AND OTHER MAJOR UPGRADES**

**2024
MAJOR CAPITAL INVESTMENT
INCREASE**

€55 MILLION INVESTMENT
IN MALTA'S ENERGY INFRASTRUCTURE
IN ONE YEAR

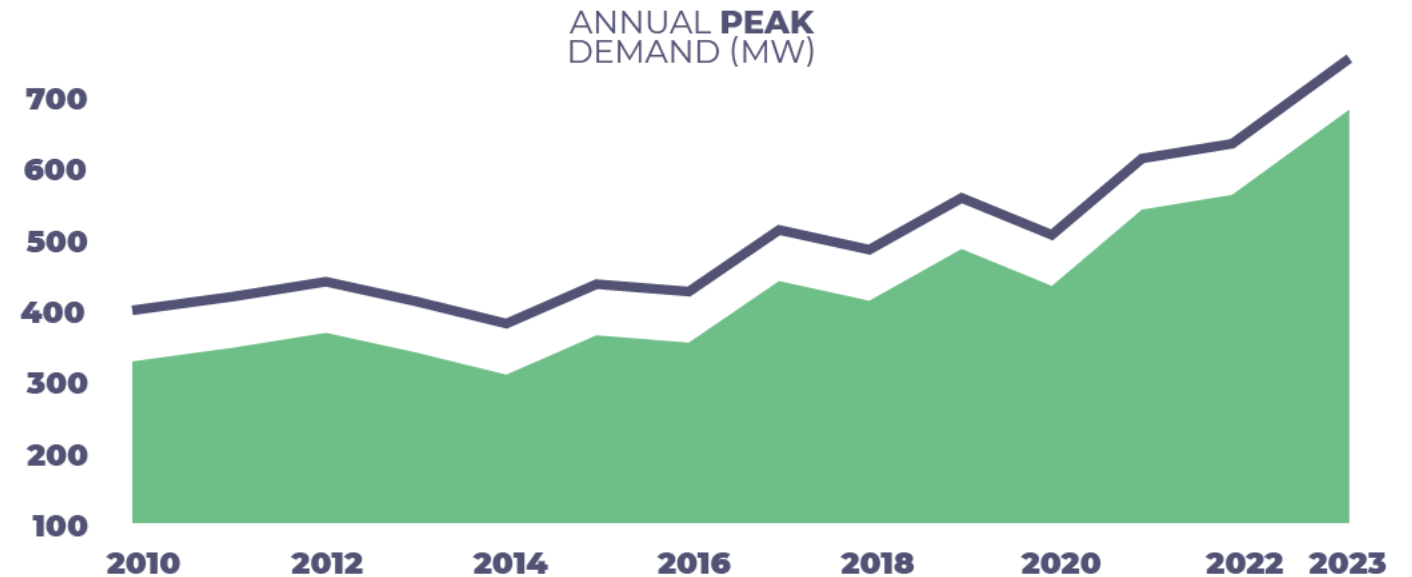
ADDITIONAL INVESTMENT BY ICM AND IESC – BESS AND INTERCONNECTOR 2

2024 NEW EMERGENCY GENERATION CAPACITY



RECORD ANNUAL PEAK DEMAND

THE PEAK DEMAND OF 663MW RECORDED DURING THE HEATWAVE OF JULY 2023, A DEMAND THAT WAS 14.1% HIGHER THAN THE PREVIOUS ANNUAL PEAK (COMPARED TO THE CUSTOMARY 3.5% YEAR-ON-YEAR AVERAGE INCREASE BETWEEN 2011 AND 2022), EVIDENCED THE NEED FOR ENEMALTA TO AUGMENT ITS GENERATION N-1 CAPACITY.



THE N-1 PRINCIPLE

THE N-1 PRINCIPLE PRESCRIBES THAT A SYSTEM SHOULD BE ABLE TO SERVE DEMAND, INCLUDING PEAK DEMAND, EVEN IF IT LOSES ITS SINGLE LARGEST ASSET.



**PREFERRED
OPTION**

LEASED PLANT

IN ORDER TO TEMPER THE RISK OF GENERATION CAPACITY INSUFFICIENCY AS EARLY AS POSSIBLE, AN EMERGENCY GENERATION CAPACITY OF 60MW SHALL BE LEASED AND INSTALLED IN DELIMARA BEFORE THE ONSET OF SUMMER 2024.

POST 2024

MEDIUM-TERM PROJECTS

- **NEW NAXXAR DC**
CALL FOR TENDERS ISSUED THIS WEEK,
MOST CABLE WORKS IN PROGRESS
- **MAJOR EXTENSION OF 132kV NETWORK (MAGHTAB - MOSTA)**
STRONGER LINKS BETWEEN INTERCONNECTOR
TERMINAL AND LOCAL NETWORK.
- **NEW SIĞĠIEWI DC**
- **REHAUL AND UPGRADING OF MSIDA DC**
- **EXTENSION AND UPGRADING OF ST. ANDREW'S DC**

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