



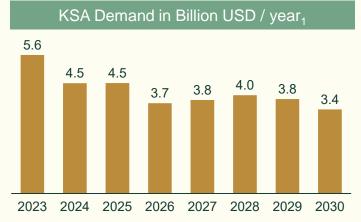
# **EHV Transformer**

Opportunity Description: To set up a EHV Transformer (above 100 MVA) manufacturing facility to serve the local



## **EHV Transformer – Opportunity Card (1/2)**

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<sup>\*</sup> There is currently no local production capacity for EHV transformer

## **Investment Highlights**

- Expected Investment: ~\$35 Mn
- Plant Capacity: ~20 units / year
- Expected Project IRR: ~17.8%
- Expected Equity IRR: ~23%
- Payback period: ~8 years
- Expected GDP Impact till 2030: ~\$117 Mn

Major Assumption	
EHV Transformer Price	~\$4 Mn/ unit
Debt	70%
Interest Rate	7%
Raw Materials	
- Iron	- Danar

- on Paper
- CopperMineral Oil
- Steel

## **Energy Sector Demand Drivers**

- Upcoming / expanding conventional energy giga projects are the major energy sector demand driver for EHV Transformers like Shoaiba II, Rabigh 2 Power Plant, Riyadh Power Plant No. 10 and RAWEC, etc
- KSA has massive plans to increase transmission capacity locally and service the double-fold regional demand growth beyond KSA

#### Other Sectors Demand Drivers

 Rampant construction under the Saudi Vision 2030 drives the demand for conventional energy and thus EHV Transformers like NEOM, Momrah Grant Plans and other housing projects

## Value Proposition

- The government in Saudi Arabia offers support and incentives to encourage local investment provided by entities in the Saudi Arabian government and the private sector
- KSA imports 100% of High-Power Transformers (above 100MVA), therefore opportunities exist to localize power transformers production
- Easy access to regional markets

## **EHV Transformer – Opportunity Card (2/2)**

## Import Dependency

- In 2020, Saudi Arabia imported \$94.2M in Liquid dielectric transformers > 10,000 KVA, becoming the 12th largest importer of Liquid dielectric transformers > 10,000 KVA in the world 1
- Saudi Arabia imports Liquid dielectric transformers > 10,000 KVA primarily from: South Korea (\$37.6M), Turkey (\$33M), China (\$7.27M), Italy (\$7.15M), and Germany (\$4.8M),

## **Localization Potential** Baseline **Target** Contribution\* 0% **75%** 2.8% Scalability

- The business can expand its geographic reach by targeting new markets in the middle east region.
- The business can expand its product line to offer a wider range of transformers

#### **Enablers and Incentives**

No enablers are taken into consideration in the financial estimation for this opportunity, but the opportunity is subject to off the shelf's incentives like:

- SIDF financing up to 75% of CAPEX
- HRDF covers monthly salaries of up to 3,000 SAR / employee for Saudi employees
- Tax credits for R&D for manufacturers
- Custom duty exemption for import of capital goods/machinery required for setup of facility

## Major Local and International Manufacturers

- Local Manufacturers: N/A
- International Manufacturers: Hyundai Electric, Hysoung, BEST, TEBEA and Siemens Energy

## Key Stakeholders





