

Reactors

Forecasted SEC Demand (2024 – 2030)*

 Spend (SAR)
2.5-4B

 Quantity (Units)
300-500

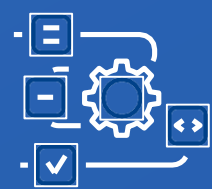
* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

 Local
0

 Global
5+

Localization Opportunity Areas



Design & Engineering



Sourcing

- Silicon steel



Manufacturing

- Core manufacturing
- Winding of Cu/ Al conductors
- Insulation wrapping
- Coil drying
- Tank fabrication etc.



Assembly & Testing

- Assemble the reactor with core, windings, and other accessories.
- Conduct required tests to ensure safety and performance standards are met.



After Sales Services

EHV Power Transformers

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

12-16B



Quantity (Units)

550-750

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

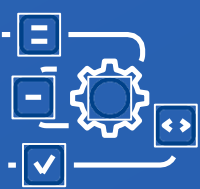
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Global

5+

Localization Opportunity Areas



Design & Engineering



Sourcing

- Silicon steel
- Relays



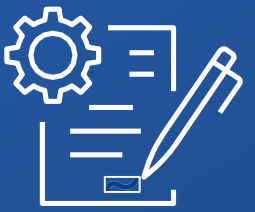
Manufacturing

- Core manufacturing
- Winding of Cu/ Al conductors
- Insulation wrapping
- Coil drying
- Tank fabrication etc.



Assembly & Testing

- Assemble transformer tank with core and windings
- Fill insulation oil
- Connect bushings, tap changers and other accessories.
- Conduct required tests.



After Sales Services

EHV Power Transformers

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

7-10B



Quantity (Units)

1.2-1.8K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

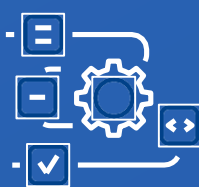
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Global

5+

Localization Opportunity Areas



Design & Engineering



Sourcing

- Silicon steel
- Relays



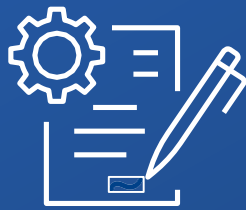
Manufacturing

- Core manufacturing,
- Winding of Cu/ Al conductors
- Insulation wrapping
- Coil drying
- Tank fabrication etc.



Assembly & Testing

- Assemble transformer tank with core and windings
- Fill insulation oil
- Connect bushings, tap changers and other accessories.
- Conduct required tests.



After Sales Services

Distribution Transformers

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

4.5-6B



Quantity (Units)

100-200K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

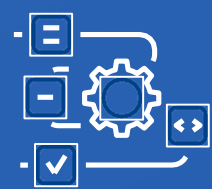


Local
5+



Global
5+

Localization Opportunity Areas



Design & Engineering



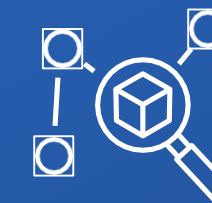
Sourcing

- Silicon steel
- Relays



Manufacturing

- Create windings from aluminum wire / foil
- Fabricate the tank
- Surface treatment for corrosion



Assembly & Testing

- Assemble the core
- Fill tank with transformer oil
- Attach bushings, tap changers & other components
- Conduct required type tests.



After Sales Services

Extra High Voltage and High Voltage Gas Insulated Switchgear

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

30-40B



Quantity (Units)

6.5-8.5K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

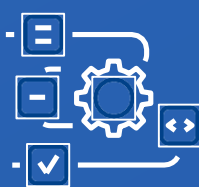
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Global

5+

Localization Opportunity Areas



Design & Engineering



Sourcing



Manufacturing

- Fabrication of the metallic enclosure
- Copper processing, Cast resin processing
- Surface treatment
- Manufacture SF6 circuit breakers



Assembly & Testing

- Assemble components and wiring
- Fill SF6 in the enclosure.
- Conduct required tests



After Sales Services

Protection Panels

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

13-16B



Quantity (Units)

100-120K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

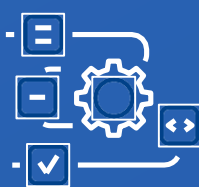
5+



Global

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Localization Opportunity Areas



Design & Engineering



Sourcing



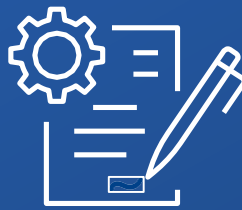
Manufacturing

- Fabricate enclosure
- Process busbars
- Surface treatment of metallic parts
- Other components of the control panel, specific to application



Assembly & Testing

- Assemble components, and wiring
- Perform quality tests to ensure safety and performance standards are met



After Sales Services

Medium Voltage Air Insulated / Gas Insulated Switchgear

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*

 Spend (SAR)
5-6B

 Quantity (Units)
25-30K

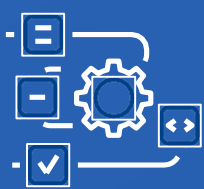
* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

 Local
5+

 Global
5+

Localization Opportunity Areas



Design & Engineering



Sourcing



Manufacturing

- Manufacture busbar
- Fabricate the enclosures,
- Mold / cast insulation components
- Perform surface treatment for corrosion etc.



Assembly & Testing

- Assemble switchgear by integrating busbar, circuit breakers, disconnectors, control units within the enclosure.
- Conduct required tests.



After Sales Services

Capacitor Bank

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

1-1.3B



Quantity (Units)

2-2.5K

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SEC Current Supplier Base



Local

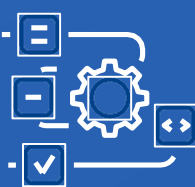
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Global

5+

Localization Opportunity Areas



Design & Engineering

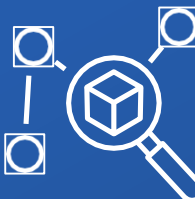


Sourcing



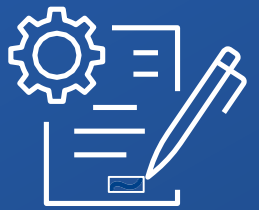
Manufacturing

- Assemble the capacitor unit (Plates and Film)
- Impregnate the dielectric film
- Fabricate the enclosure for the components



Assembly & Testing

- Integrate the capacitors, reactors, circuit breakers, switches, and other components within the enclosure and
- Perform required tests



After Sales Services

Unit Substation

Forecasted SEC Demand (2024 – 2030)*

 Spend (SAR)
5-7B

 Quantity (Units)
100-150K

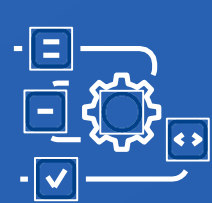
* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

 Local
5+

 Global
0

Localization Opportunity Areas



Design & Engineering



Sourcing



Manufacturing

- Fabricate the enclosure, transformer assembly, and assembly.
- switchgear
- Treat the surface
- Integrate a cooling system as required.



Assembly & Testing

- Assemble and perform quality assurance tests to ensure all performance and safety standards are met.



After Sales Services

Low Voltage Power Cables

Forecasted SEC Demand (2024 – 2030)*

 Spend (SAR)
6-9B

 Quantity (Units)
200-300K

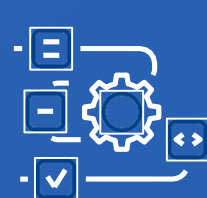
* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

 Local
5+

 Global
5+

Localization Opportunity Areas



Design & Engineering

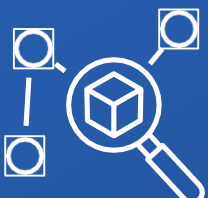


Sourcing



Manufacturing

- Extrude insulation over stranded conductors
- Apply tapes and fillers if required
- Complete with sheathing and surface treatment.



Assembly & Testing

- Assemble and perform quality assurance tests to ensure all performance and safety standards are met.



After Sales Services

Medium Voltage Power Cables

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

40-50B



Quantity (Units)

500-600K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

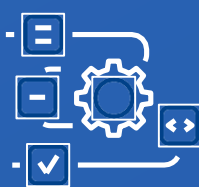
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Global

5+

Localization Opportunity Areas



Design & Engineering

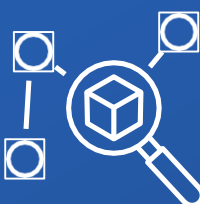


Sourcing



Manufacturing

- Extrude insulation over stranded conductors
- Apply semi conductive screens
- Add tapes and fillers if required
- Complete with sheathing and surface treatment.



Assembly & Testing

- Assemble and perform quality assurance tests to ensure all performance and safety standards are met.



After Sales Services

High Voltage Power Cables

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

15-20B

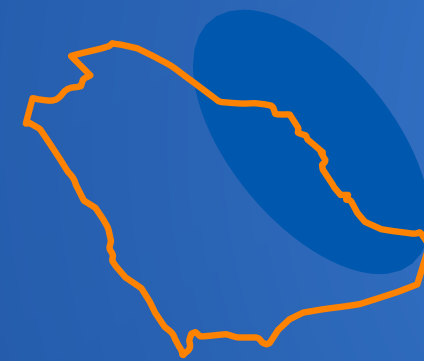


Quantity (Units)

20-30K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

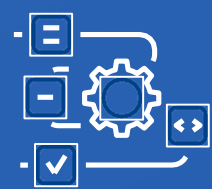


Local
5



Global
5+

Localization Opportunity Areas



Design & Engineering

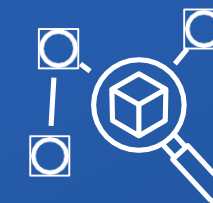


Sourcing



Manufacturing

- Extrude insulation over stranded conductors
- Apply semi conductive screens
- Add tapes and fillers if required
- Complete with sheathing and surface treatment.



Assembly & Testing

- Assemble and perform quality assurance tests to ensure all performance and safety standards are met.



After Sales Services

Extra High Voltage Power Cables

Forecasted SEC Demand (2024 – 2030)*

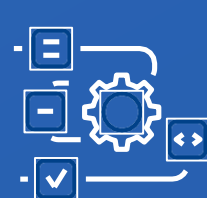


* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Localization Opportunity Areas



Design & Engineering



Sourcing



Manufacturing

- Strand Copper Conductors
- Extrude semi-conductive layers
- Apply metallic screen and armor
- Extrude outer sheath



Assembly & Testing

- Assemble and perform quality assurance tests to ensure all performance and safety standards are met.



After Sales Services

Ring Main Unit

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

6-10B



Quantity (Units)

150-250K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

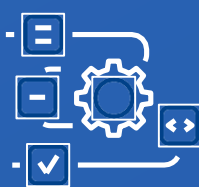
5+



Global

5+

Localization Opportunity Areas



Design & Engineering



Sourcing



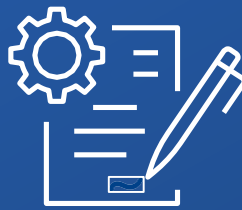
Manufacturing

- Fabricate the Enclosures
- Manufacture Cu/ Al busbar
- Mold/ cast insulation components etc.



Assembly & Testing

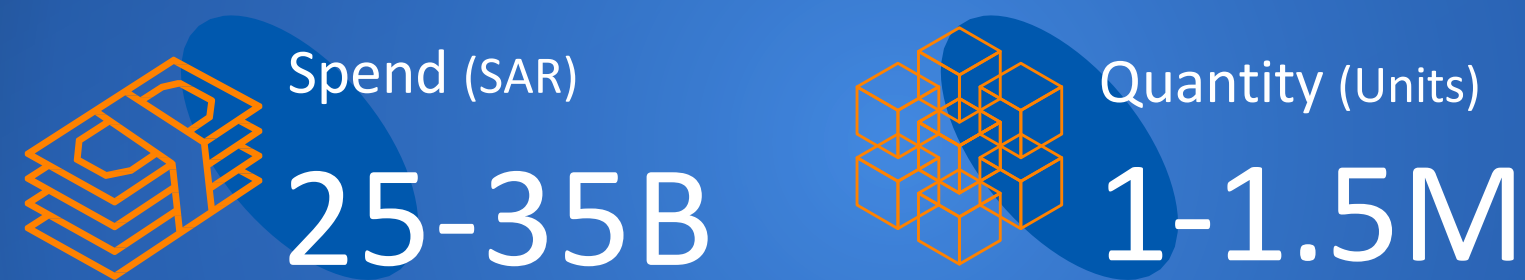
- Assemble the RMU by integrating the busbars, circuit breakers, disconnectors, earthing switches etc.
- Fill enclosure with SF6 gas.
- Conduct required tests.



After Sales Services

Conductors (Transmission)

Forecasted SEC Demand (2024 – 2030)*

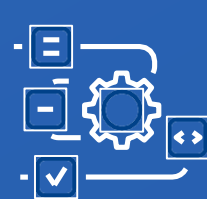


* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Localization Opportunity Areas



Design & Engineering



Sourcing



Manufacturing

- Aluminum and steel wire drawing
- Stranding of wires
- Heat treatment
- Cladding – as required e.g., copper on steel
- Application of protective coatings



Assembly & Testing

- Combine stranded wires into the final conductor arrangement
- Apply protective coating
- Conduct tests to ensure standards are met



After Sales Services

Conductors (Distribution)

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

5.5-7.5B



Quantity (Units)

500-700K

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base

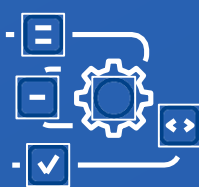


Local
5+



Global
3

Localization Opportunity Areas



Design & Engineering



Sourcing



Manufacturing

- Aluminium, Steel and Copper wire drawing
- Stranding for ACSR/AW conductors
- Application of protective coatings to enhance durability
- Heat treatment as required



Assembly & Testing

- Combine stranded wires into the final conductor arrangement
- Apply protective coating
- Conduct tests to ensure standards are met



After Sales Services

Optical Fiber Ground Wire (OPGW)

Forecasted SEC Demand (2024 – 2030)*

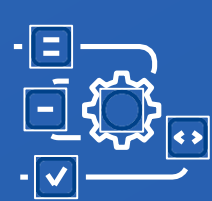


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SEC Current Supplier Base



Localization Opportunity Areas



Design & Engineering



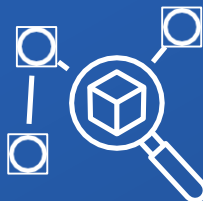
Sourcing

- Galvanized steel



Manufacturing

- Process Aluminium and stainless steel for the outer layers and structural parts
- Fabricate the optical wires.



Assembly & Testing

- Assemble the optical fibers and the metallic wires
- Add additional insulation and protection (e.g., PBT).
- Conduct optical, mechanical and electrical tests to ensure required standards are met.



After Sales Services

Insulators (Distribution)

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

0.7-1B



Quantity (Units)

6-8M

* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Local

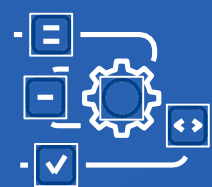
2



Global

5+

Localization Opportunity Areas



Design & Engineering



Sourcing

- Porcelain / Composite materials (Silicone rubber / EPDM etc.)



Manufacturing

- Form and shape insulator body (porcelain)
- Extrude / mold polymeric housings around fiberglass rods (polymer).
- Fix fasteners & other components before welding together different parts into tower sections.



Assembly & Testing

- Assemble metal end fittings to the insulator body.
- Conduct electric, mechanical, and environmental tests to ensure performance standards are met.



After Sales Services

Insulators (Transmission)

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

7-10B



Quantity (Units)

50-70M

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SEC Current Supplier Base



Local

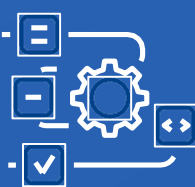
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Global

5+

Localization Opportunity Areas



Design & Engineering



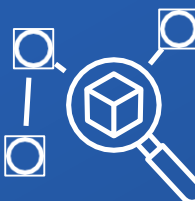
Sourcing

- Porcelain / Composite materials (Silicone rubber / EPDM etc.) / Glass



Manufacturing

- Form the insulator body.
- For porcelain type, dry glaze, and fire in kilns.
- For glass type, anneal, and temper.
- For composite type, pultrude fiberglass rods, mold silicone rubber, and bond components.



Assembly & Testing

- Assemble metal end fittings and fasteners to the insulator body.
- Conduct tests to ensure performance standards are met.



After Sales Services

Towers

Included in
Mandatory List

Forecasted SEC Demand (2024 – 2030)*



Spend (SAR)

30-40B



Quantity (Units)

6000-8000

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SEC Current Supplier Base

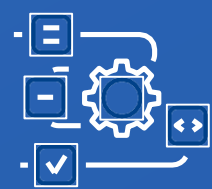


Local
5+



Global
5+

Localization Opportunity Areas



Design & Engineering



Sourcing

- Steel angles
- Steel plates



Manufacturing

- Fabricate steel components for the tower structure
- Perform welding, joint preparation, surface treatment, etc.



Assembly & Testing

- Assemble the tower sections and joints
- Perform tests to ensure performance standards are met.



After Sales Services

Joints and Termination (Distribution)

Forecasted SEC Demand (2024 – 2030)*

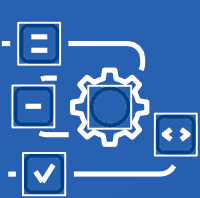


* Demand numbers provided here are estimated and subject to change

SEC Current Supplier Base



Localization Opportunity Areas



Design & Engineering



Sourcing

- Silicon rubber
- EPDM rubber



Manufacturing

- Mold and process the EPDM / Silicon rubber to create the body
- Fabricate the metallic lugs, connectors, mesh and insulating plugs.



Assembly & Testing

- Assemble the components to create joint / termination / elbow
- Conduct quality assurance tests to ensure performance standards are met.



After Sales Services

Joints and Termination (Transmission)

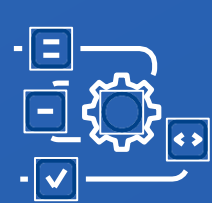
Forecasted SEC Demand (2024 – 2030)*



SEC Current Supplier Base



Localization Opportunity Areas



Design & Engineering



Sourcing

- Silicon rubber
- EPDM rubber



Manufacturing

- Mold and process the EPDM / Silicon rubber to create the body
- Fabricate the metallic lugs, connectors, mesh and insulating plugs.



Assembly & Testing

- Assemble the components to create joint / termination / elbow
- Conduct quality assurance tests to ensure performance standards are met.



After Sales Services