

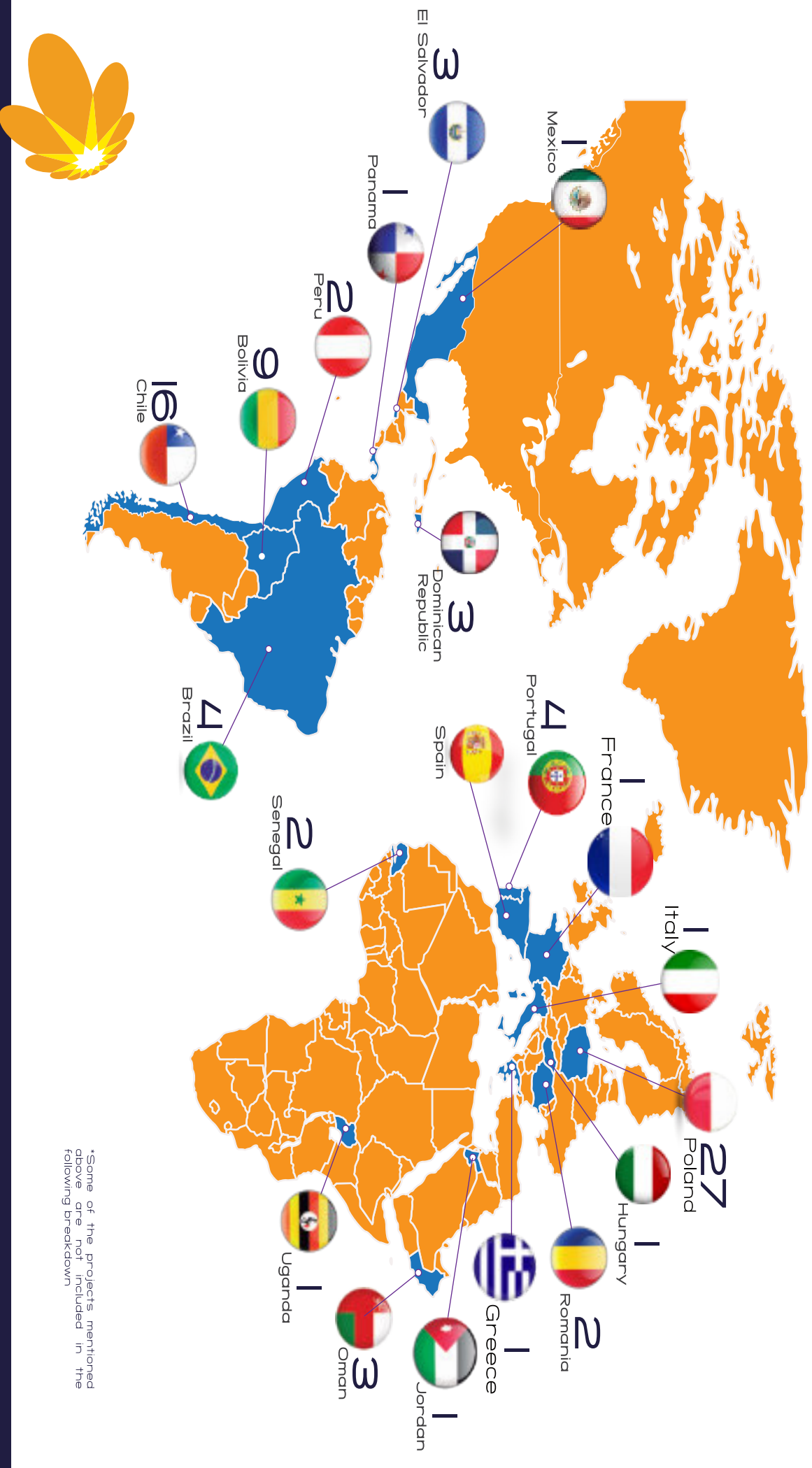


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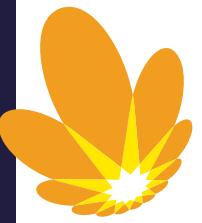
ELECTRICAL SYSTEMS AUTOMATION
SINCE 2008

International
Projects

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*Some of the projects mentioned above are not included in the following breakdown



2025



Client: EDP Renewables,
Project: *ST Pierre des Jonquieres*, Wind Farm, France (2025)
Solution: Supply of a substation automation system for the ST Pierre des Jonquieres 90/33kV substation



Client: EDP Renewables,
Project: *Erimia*, Photovoltaic Solar Plant, Greece (2025)
Solution: Expansion of Substation Automation System for Martino Substation by extension of 2x MV and 1x HV positions (35 MW, expected to generate about 71 GWh)



Client: EDP Renewables,
Project: *Monte di Eboli*, Photovoltaic Solar Plant, Italy (2025)
Solution: Supply of a substation automation system for the Monte di Eboli sectioning centre. Integration of UCPS in ModBUS

2024



Client: CJR Renewables,
Project: *Foral*, Photovoltaic Solar Plant, Poland (2024)
Solution: Digital Supply Substation Automation System with centralised solution.



Client: EDP Renewables,
Project: *Recz-1*, Photovoltaic Solar Plant, Poland (2024)
Solution: MicroSCADA X version IO, REF620, RIO600, RTU540



Client: EDP Renewables,
Project: *Recz-2*, Photovoltaic Solar Plant, Poland (2024)
Solution: MicroSCADA X version IO, REF620, RIO600, RTU540



Client: EDP Renewables
Project: *Audit*, Poland (2024)
Solution: Framework Contract for Audits and Integration in Dispatch Control systems



Client: EDP Renewables,
Project: *Fehergyarmat*, 50MW Photovoltaic Solar Plant, I, Hungary (2024)
Solution: MicroSCADA X hot standby version IO, REF630, REX640, RTU540, REF615, RIO600



Client: EDP Renewables,
Project: *Timisoara*, Photovoltaic Solar Plant, Rumania (2024)
Solution: MicroSCADA X hot standby version IO, REF630 REX640, RTU540, REF615, RIO600



2023



Client: EDP Renewables
Project: *Audit*, Poland (2023)
Solution: Framework Contract for Audits and Integration in Dispatch Control systems



Client: EDP Renewables,
Project: *Bobowo*, Wind Farm, Poland (2023)
Solution: MicroSCADA X version IO, REF620, RIO600, RTU540

2022



Client: EDP Renewables, .
Project: *Klincz*, Wind Farm, Poland (2023)
Solution: MicroSCADA X version IO, REF620, RIO600, RTU540



Client: Celeo Redes
Project: *Apoquindo Control Centre*, Chile (2022)
Solution: Integration MicroSCADA MSX in bays at Charrua.



Client: Celeo Redes
Project: *Rucúe y Quilleco*, Chile (2022)
Solution: Separation and Integration of Rucúe and Quilleco installations in the MicroSCADA MSX.



Client: EDP Renewables
Project: *Chotków*, Wind Farm, Poland (2022)
Solution: MicroSCADA X hot standby version IO, REF630, REX640, RTU540, REF615, RIO600



Client: EDP Renewables
Project: *DSO Rampton*, Poland (2022)
Solution: Connection of Budzyn and Pawlowo systems to the EDPR DSO known as Rampton



Client: EDP Renewables
Project: *Audit*, Poland (2022)
Solution: Framework Contract for Audits and Integration in Dispatch Control systems



Client: EDP Renewables
Project: *Przykona*, Photovoltaic Solar Plant, Poland (2022)
Solution: MicroSCADA X hot standby version IO, REF630, REX640, RTU540, REF615, RIO600





Client: EDP Renewables
Project: *Konary*, Photovoltaic Solar Plant, Poland (2022)
Solution: Update of Pawlowo Control System



Client: Celeo Redes
Project: *Colbún Complex*, Chile (2022)
Solution: Separation work and integration of the facilities of the Colbún Complex: San Clemente, Chiburgo and Charrúa in the Celeo Redes Control System (Chile).

2021



Client: EDP Renewables
Project: *Wojcice*, Wind Farm, Poland (2021)
Solution: MicroSCADA X hot standby version IO, REF630, REC670, RTU540, REF615, RIO600



Client: EDP Renewables
Project: *Ujazd*, Wind Farm, Poland (2021)
Solution: MicroSCADA X hot standby version IO, REF630, REC670, RTU540, REF615, RIO600



Client: EDP Renewables
Project: *Budzyn*, 70 MW Wind Farm, Poland (2021)
Solution: MicroSCADA X hot standby version IO, REF630, REC670, RTU540, REF615, RIO600



Client: EDP Renewables
Project: *Wielkopolskie*, Wind Farm, Poland (2021)
Solution: MicroSCADA X hot standby version IO REF630, REC670, RTU540, REF615, RIO60

2019



Client: Grupo TSK
Project: *Penonomé*, 150 MW Photovoltaic Solar Plant, Panama (2019)
Solution: MicroSCADA SYS600, REx670, REx650, REx620



Client: EDP Renewables
Project: *Lichnowy*, Wind Farm, Poland (2019)
Solution: MicroSCADA hot standby version 9.4, REF630, REC670, RTU540, REF615, RIO600



Client: EDP Renewables
Project: *Korsze III*, 42 MW Wind Farm, Poland (2019)
Solution: MicroSCADA hot standby version 9.4, REF630, REC670, RTU540, REF615, RIO600





Client: Elecnor
Project: - *Don Hector*, 100 MW Back-up Power Plant. Chile (2018-19)
 - *Los Vilos*, 150 MW Back-up Power Plant. Chile(2018-19)
 - *Tap Off*, Back-up Power Plant. Chile (2018-19)
Solution: MicroSCADA SYS600, REx670, REx650, REF620, RTU560



Client: Ende Andina
Project: *Entre Ríos*, 230 kV Combined Cycle Power Plant.
Solution: Integration of the Entre Ríos I substation in the EntreRíos MicroSCADA.



Client: Navigator
Project: *Figueira da Foz*, Navigator Paper Mill. Portugal (2019)
Solution: Integration of Schneider relays in ABB MicroSCADA.



Client: Grupo TSK
Project: *Otzalan-Capella*, 150 MW Photovoltaic Solar Plant. Panama (2019)
Solution: MicroSCADA SYS600, REx670, REx650, REx620

2018



Client: Prime Energía
Project: - *Llanos Blancos*, Back-up Power Plant, Chile. (2018)
 - *Combarbala*, 75 MW Back-up Power Plant, Chile. (2018)
 - *San Javier*, 50 MW Back-up Power Plant, Chile. (2018)
 - *Los Pajonales*, 100 MW Back-up Power Plant, Chile. (2018)
 - *Los Cóndores*, 150 MW Run-of-river Hydroelectric Power Plant, Chile (2018)
Solution: MicroSCADA Pro SYS600, REx670, REx650, REF620, RTU560





Client: Grupo TSK
Project: *Oruro*, 50 MW Photovoltaic Solar Plant, Bolivia (2018)
Solution: MicroSCADA Pro SYS600





Client: Grupo TSK
Project: *Dhopar 50*, MW Wind Farm. Dhopar, Oman (2018)
Solution: MicroSCADA Pro SYS600, audit & consultancy of substation communication equipment. Supply of line differential protections (RED670, & ETL 600)



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Client: Mexican National Grid
Project: *San Luis de Potosí*, Wind Farms & Photovoltaic Solar Plants. Mexico (2018)
Solution: Audit & consultancy of substation communication equipment (FOX 615, NSD 670, ETL 600)
- 

Client: Parques Eólicos del Caribe SA
Project: *Guanillo*, Wind Farm. Dominican Republic (2018)
Solution: Supply of Line Differential Protections, RED670
- 

Client: Grupo TSK
Project: *Agua Clara*, 50 MW Wind Farm. Dominican Republic (2018)
Solution: RED670 relays and FOX communication devices.
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Client: Grupo TSK
Project: *Al-Safawi*, 51 MW Photovoltaic Solar Plant, Jordan (2018)
Solution: MicroSCADA SYS600C, Rex670, Rex615, Rex620, IEC 61850

2017

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Client: EDP Renewables
Project: *Aventura*, 230 kV Wind Farm. Brazil (2017)
Solution: Upgrade of the REX630 and MicroSCADA SYS600C control and protection system using IEC 61850 protocol.
- 

Client: Celeo Redes
Project: *Santiago de Chile*, Centro de Control. Chile (2017)
Solution: Supply, engineering and commissioning of an automatic hierarchical system based on ABB MicroSCADA and Historian technology for the centralized fault management of the Celeo Redes transport network.
- 

Client: Grupo TSK
Project: *Baixa de Feijao and Joao Cámara*, 150 MW Wind Farms, Brazil (2017)
Solution: Engineering of the algorithm for the regulation of active and reactive power in the automation system of substations sharing the same outgoing line. MicroSCADA SYS600, REX 630, REX615, REX 670, RTU 540, IEC 61850.
- 

Client: EDP Renewables
Project: *Baixa do Feijao*, 30 MW Wind Farm. Brazil (2017)
Solution: Expansion of control and protection systems and MicroSCADA SYS600, REX630, REX615, Rex670.





Client: Ende Andina

Project: *Entre Ríos*, 230 kV Combined Cycle Power Plant. Bolivia (2017)
Warnes, 230 kV Combined Cycle Power Plant. Bolivia (2017)
Termosur, 230 kV Combined Cycle Power Plant. Bolivia (2017)

Solution: PRP 61850, comprising of 34 ABB RET670 and 34 ABB RET650 devices, the ABB Historian system, and ABB Combiflex maintenance devices as well as redundant MicroSCADA SYS600C systems.

2016



Client: EDP Renewables

Project: *Pawlowo*, 110/33 kV Wind Farm. Poland (2016)
Solution: Ampliación de tres baterías de condensadores del Sistema de control y protecciones MicroSCADA SYS600, Rex630



Client: EDP Renewables

Project: *Tomaszów*, 110/33 kV Wind Farm. Poland (2016)
Solution: MicroSCADA SYS600, IEC 61850, Rex670, Rex615, Rex630



Client: EDP Renewables

Project: *Tyszowce*, 110/33 kV Wind Farm. Poland (2016)
Solution: MicroSCADA SYS600, IEC 61850, Rex615, Rex670, Rex630



Client: Cemento Andino

Project: *Carpapata*, 72 kV Industrial Plant. Peru (2016)
Solución: MicroSCADA SYS600, REX615, REX650, IEC 61850



Client: Access

Project: *Soroti*, 10 MW Photovoltaic Solar Plant, Uganda (2016)
Solution: Expansion of REX615 relays using IEC 61850 communication protocol with RTU560.



Client: Senelec

Project: *Hann*, 90/30kV Distribution Substation, Senegal (2016)
Solution: Expansion of the control and protection system REX630, and MicroSCADA SYS600C using the IEC 61850 protocol.



Client: NEOEN

Project: *Spica*, 25MW Photovoltaic Solar Plant, El Salvador (2016)
Antares, Photovoltaic Solar Plant, El Salvador (2016)
Solution: MicroSCADA SYS600, Rex670, Rex650, Rex615, Rex620, IEC 61850





Client: NEOEN
Project: *Spica*, 25MW Photovoltaic Solar Plant, El Salvador (2016)
Solution: Antares: Photovoltaic Solar Plant, El Salvador (2016)
 MicroSCADA SYS600, Rex670, Rex650, Rex615, Rex620, IEC 61850

2015



Client: ENEL Green Power
Project: *Talinay Poniente*, 220/33kV Wind Farm, Chile (2015)
Solution: IEC 61850, REx670, REx630



Client: EDP Renewables
Project: *Radziejow*, 110/33 kV Wind Farm. Poland (2015)
Solution: MicroSCADA SYS600, IEC 61850, Rex670, Rex615, MICOM

2014



Client: Cemento Andina
Project: *Condorcoccha*, 138 kV Industrial Plant. Peru (2014)
Solution: MicroSCADA SYS600, IEC 61850, REx670, REx650



Client: Ende Andina
Project: -*Warnes*, 230 kV Power Generation Plant. Bolivia (2014)
 -*Termosur*, 230 kV Power Generation Plant. Bolivia (2013)
Solution: MicroSCADA SYS600, IEC 61850, REx670, REx650, Historian, Combiflex.

2013 - 2011



Client: EDP Renewables
Project: *Pawlowo*, 110/33 kV Wind Farm. Poland (2013)
Solution: MicroSCADA SYS600, IEC 61850, Rex670, Rex615, Rex630, RTU520.



Client: EDP Renewables
Project: *Margonin*, 110/33 kV Wind Farm. Poland (2012)
Solution: Extension of the IEC 618850, Rex670, LON REF54x and MicroSCADA SYS600 control and protection system.



Client: EDP Renewables
Project: *Cernavoda*, 110/33 kV Wind Farm. Romania (2011)
Solution: Expansion of the control and protection system LON Rex670, REF54x and MicroSCADA SYS600.

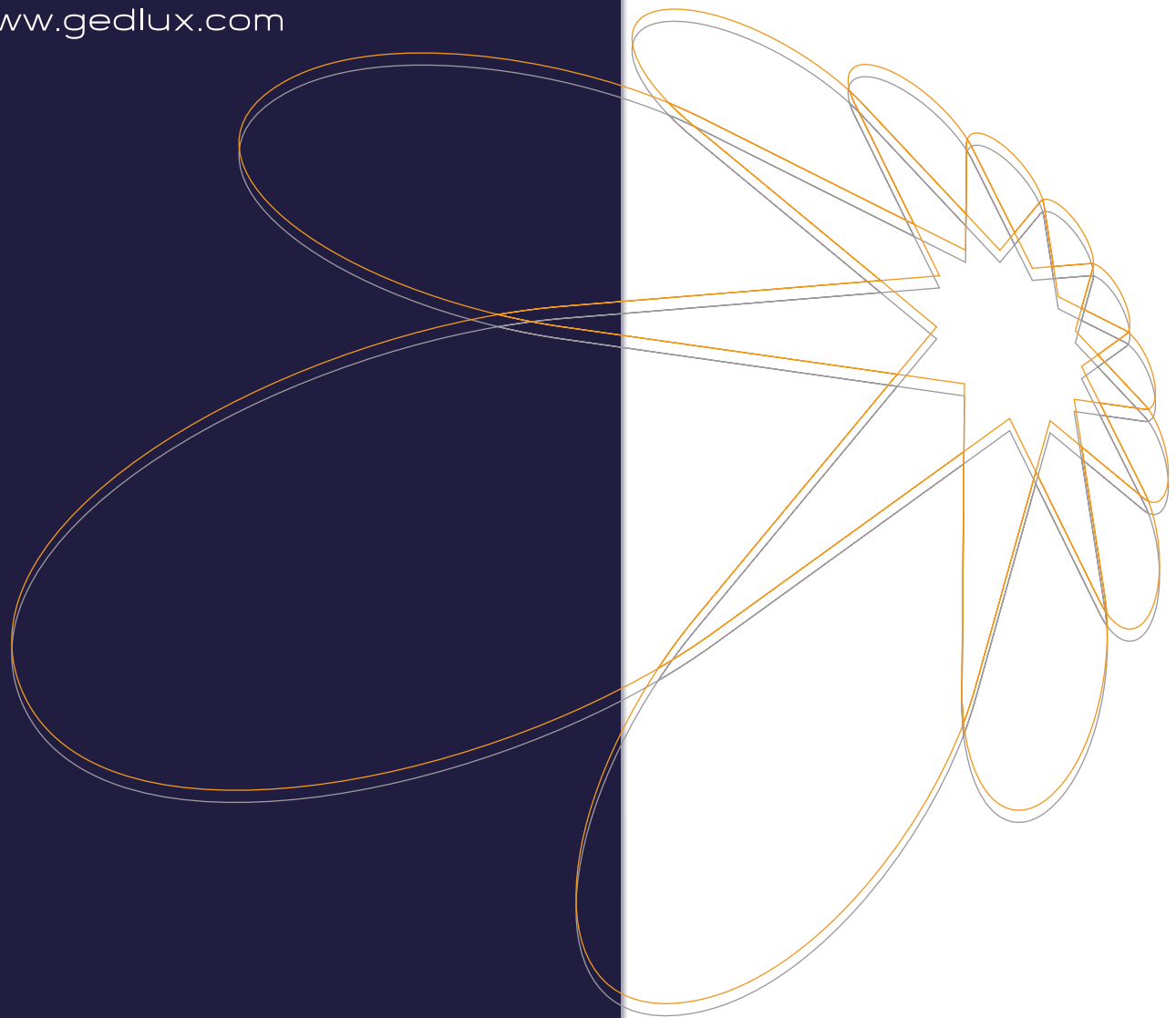


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