

ELEM & ELGO d.o.o.

design, consulting, trade
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RELEVANT MAJOR PROJECT EXPERIENCE

Note: Performance Certificates for single referenced projects, issued by Clients, may be presented on request.

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
1	Relocation and construction of pipelines for the construction of the Pambukovica dam (Ub municipality). Distribution network component of the project consists of the following sub-components: 1. Removal of part of the 10kV overhead line due to construction of the reservoir (total length of lines approx. 4km) and removal of the part of 1kV OHL that will be threatened by the construction of the reservoir 3. New 10kV overhead lines for the construction of the facility "New electrical installation of the Pambukovica dam" (total length approx. 2.5km)	Ub, Serbia	Services: <ul style="list-style-type: none"> Consulting services – collection of data and preparation of project concept; Preliminary design documentation in line with Serbian legislation; Details for construction works (technical specifications); 	N/A	06.2022 - present	Energoprojekt Hidroinženjering a.d Serbia	
2	Design of tower and foundation for the wind turbine tower (pole), within design of new Windfarm Alibunar I, which consists of 3 wind generators, with the total maximum output power of 9.0 MW	Serbia	Services: <ul style="list-style-type: none"> Design for construction permit (PGD); Design for construction (PZI); Calculation of piled foundations, in line Eurocode set of standards; 	DNP Inženjering d.o.o.	06.2022 – present	BALCAN ELEKTRIC d.o.o.	
3	Consulting services and services of supervision of works according to Serbian legislation on the following project: 1. 110 kV OHL No. 150 SS Bor 1 - SS Majdanpek 1, relocation of the section from existing tower no.60 to existing tower no. 81 and 2. 110 kV OHL No.177 SS Bor 2 - SS Majdanpek 2, relocation of the section from existing tower no.54 to existing tower no.64 / 6u	Bor, Serbia	Services: <ul style="list-style-type: none"> Supervision of works in line with Serbian legislation; Consulting services, including assistance in preparation of technical specifications of equipment, checking of technical drawings of offered equipment and clarifications with Contractor during the procurement process; Participation at FATs of equipment and SATs; Participation at regular progress meetings with the Client and Contractor; 	N/A	06.2022 – present	Serbia Zijin Copper d.o.o. Bor	

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4	Consulting services related to analysis of possibilities for necessary network extensions and reconstructions of existing 110kV and 400kV power lines in the region of planned expansion of mining facilities of the Client, Serbia Zijin Copper d.o.o. Bor	Bor, Serbia	Services: <ul style="list-style-type: none"> • Preliminary analysis, including preliminary desk-based assessment of overhead line corridors and site assessment; • Feasibility analysis, including site assessment, minor geodetic survey works , analysis of line terminations (SS Bor 2 and SS Bor 6); • Assessment of Project options and comparison of alternatives; • Summary of assumptions and risks; • Preparation of a Feasibility Analysis Report; • Presentation of results to the Client and EMS AD (Serbian TSO); 	N/A	06.2022 – 08.2022	Serbia Zijin Copper d.o.o. Bor	
5	Technical review of designs for connection of new factory Linglong to the power system of Serbia: 1. 110 kV OHL no. 1007 TS Zrenjanin 2 - TETO Zrenjanin, lead-in into SWY 110 kV Zrenjanin; 2. Two underground cable lines 110 kV SS Linglong - SWY Zrenjanin; 3. Connection Switchyard (PRP) 110 kV Zrenjanin;	Serbia	Services: <ul style="list-style-type: none"> • Technical review of design documentation; • Issue of review reports and certification for issue of construction permits; 	N/A	05.2022 - present	PROPLANING d.o.o. Beograd	
6	WB6-MNE-ENE-06 C2: "Electricity Network Expansion for the Development of New Renewable Energy Sources - Update of PD and ESIA – SS" The subproject includes the following components: 1. 110kV OHL Herceg Novi – Vilusi (approx. 37km) 2. Reconstruction of 110kV SS H.Novi and SS Vilusi 3. New SS 400/110kV Brezna (second phase)	Montenegro	Services: <ul style="list-style-type: none"> • Checking and adjustment of the route of line for the new 110kV OHL H.Novi – Vilusi; • Coordination of activities of geodetic LiDAR survey contractor for survey of the changed sections; • Coordination of activities of the contractor for geotechnical investigation works (OHL and SS) and follow-up of activities; • Revision of the Preliminary Design of new 110kV OHL; • Revision of the Preliminary Design of substations; 	N/A	12.2021 - present	Subcontractor to DB Engineering & Consulting GmbH and Hill International (IPF7 Consortium) End beneficiary: CGES ad (TSO in Montenegro)	<i>Project financed by European Commission (WBIF – IPF), Lead IFI - EBRD</i>

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7	WB25-SRB-ENE-01 - Serbia, North CSE Corridor: 400/110 kV substation Belgrade West, 400kV OHL substation Belgrade West – switching station Čibuk 1, and 400 kV OHL Serbia – Romania: Feasibility Study and ESIA Subproject includes 2 components: 1. Beogrid2025 Project cluster, consisting of: a. Substation (SS) 400/110 kV Belgrade West with the alignment of the 400 kV and 110 kV OHLs b. 400 kV OHL SS Belgrade West – WPP Čibuk 1 (app. 80 km) 2. Upgrade of existing OHL 400 kV Serbia (HPP Djerdap 1) – Romania (Portile de Fier) to double-circuit OHL (app 2 km)	Serbia	Services: <ul style="list-style-type: none"> Project management (project team leader); Update of Conceptual design of OHL and SS – Serbian legislation; Selection of the optimal variant for component 2; Support to EMS (beneficiary) in the process of development of spatial planning documentation; Feasibility Study; 	N/A	11.2021 – present	Subcontractor to PLANET SA (IPF7 Consortium) End beneficiary: Elektromreža Srbije JSC (TSO in Serbia)	<i>Project financed by European Commission (WBIF – IPF), Lead IFI - KfW</i>
8	Windfarm “FEKETIĆ” Project preparation phase – analysis of the windfarm layout and cable connections to the substation and connection to the grid;	Serbia	Services: <ul style="list-style-type: none"> Collection of input data; Development of a conceptual solution of the substation layout and connection of the future WPP Feketić to the power system (EES) 	N/A	'02.2022	BA Trade d.o.o. Beograd, Serbia	
9	Arrangement of 110kV OHL at the new 110kV switchyards: - new SWY Veliki Krivlje 2 (Contract 1) and - new SWY Bor 5 (Contract 2) , near Bor, for supply of mining complex Preparation of design documentation, support to the Client in preparation of general documentation (Terms of References), consulting services, construction supervision	Serbia	Services: <ul style="list-style-type: none"> Route of line selection study; Conceptual Design; Preliminary Design; Tender Documents / Tech.Specs Design for Construction Permit; Design for Construction; Supervision of construction works Consultancy services / project management 	Subcontractor to Global Substation Solutions d.o.o. Beograd	09.2021 – present	Serbia Zijin Mining d.o.o. Bor Serbia	

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10	Solar Power Plant "KIMA" - Grid Connection Preparation of the Pre-feasibility study, including techno-economic analysis of the necessary works and investments on the existing 110 kV OHL No. 189 for the increase of overhead line capacity for purpose of connection of new power plant to the power system of Serbia.	Serbia	Services: <ul style="list-style-type: none"> Collection of input data; Assessment of present state and condition of existing overhead line; Overview of available HTLS conductors for replacement of ACSR conductor, without replacement of towers; Modeling of selected OHL sections and analysis of clearances and infrastructure; Development of project alternatives; Comparison of alternatives and proposal for optimal development option; 	N/A	10.2021 – 12.2021	KIMA Solar d.o.o. Beograd, Serbia	
11	Solar Power Plant "Solarina" - Grid Connection Contract No.1: Consulting services for the purpose of defining the proposal of the solution for connecting the new Solar Power Plant Solarina to the power system. "Preliminary analysis of connection of the solar power plant to SS 400/110 kV Bor 2". Contract No.2: Preparation of Conceptual Design of 110kV Hybrid Power Line (overhead/cable)	Serbia	Services: <u>Contract No. 1:</u> <ul style="list-style-type: none"> Collection of input data Development of alternatives for the analysis Technical assessment of each alternative Conclusions, including proposal for further steps in project development <u>Contract No.2:</u> <ul style="list-style-type: none"> Preparation of Conceptual Design Support in the development of spatial planning documentation 	N/A	C1: 09.2021 – 11.2021 C2: 12.2021 - present	Solarina d.o.o. Beograd, Serbia	
12	Supervision of works on the relocation of the 220 kV transmission line no. 227/1 SS Bajina Bašta - SS Valjevo 3, due to the intersection with the new public road through the industrial zone in Valjevo..	Serbia	Services: <ul style="list-style-type: none"> Construction supervision in line with Serbian legislation Supervision of civil and electrical works 	N/A	05.2021 – 07.2021	City of Valjevo, Serbia	
13	Solar Power Plant Berkovići, Trebinje, Bosnia and Herzegovina	Trebinje, BiH	Services: <ul style="list-style-type: none"> Review and expertise on project documentation for obtaining of permits and selection of contractor and contract negotiations, including Conceptual Design with specification of major equipment, Feasibility Study and Contractor's Offer and draft Contract Agreement; 	N/A	06.2021	ECO ENERGY d.o.o. Trebinje	

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14	Windfarm Čestobrodica – consultancy and design services related to the grid connection project (400kV OHL, length approx. 2x20km) Design and consultancy services from the analysis of options for connection to the 400kV network to design for construction permit.	Serbia	Services: <ul style="list-style-type: none"> • Preliminary and Alignment Survey Study • Conceptual Design • Preliminary Design • Design for Construction Permit • Consulting services to the Client during the processes of development of spatial planning documentation and obtaining of consents and permits; 	DNP Inženjering d.o.o.	05.2021 - present	Vetroenergo d.o.o., Serbia	
15	Hybrid 110kV Overhead and Underground Cable Line CCPP Vinča – SS Belgrade 20 Preparation of Design for Construction, As-built Design and Microproject (based on constructed line)	Serbia	Services: <ul style="list-style-type: none"> • Design for construction • Adjustment of standard tower types to enable transition from underground to overhead line (additional consoles, strengthening of structure, etc.) • Design of special foundations where necessary; • As-built Design • Microproject. 	Elektromontaža Kraljevo d.o.o. (main contractor, construction works)	12.2020 - present	Client: Beočista Energija d.o.o.	
16	Windfarm Vetrozelena – consultancy and design services related to the grid connection project (400kV OHL, length approx. 10km) Design and consultancy services from the analysis of options for connection to the 400kV network to design for construction permit.	Serbia	Services: <ul style="list-style-type: none"> • Preliminary and Alignment Survey Study • Conceptual Design • Preliminary Design • Design for Construction Permit • Consulting services to the Client during the processes of development of spatial planning documentation and obtaining of consents and permits; 	N/A	10.2020 - present	Vetrozelena d.o.o.	
17	Detailed Design of reconstruction of 400kV OHL Ribarevine – Peć in Montenegro (replacement of tower No. 15) Supply of design of steel lattice tower, design of special foundation and elements of detailed design	Montenegro	Services: <ul style="list-style-type: none"> • Adjustment of design of standard steel lattice tower (suspension tower) for supply to the Client in Montenegro; • Preparation of elements of the detailed design of OHL reconstruction ; • Design of special foundations for the new tower; • Support to the Contractor in process of manufacture of steel lattice tower; • As-built Design (civil part); 	GAT d.o.o. Montenegro	09.2020 – 02.2021	Beneficiary: Crnogorski Elektroprenosni Sistem (CGES), TSO of Montenegro	

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18	Morava Corridor Motorway Project Design and Relocation Works of High, Medium and Low Voltage Electrical Lines in Sections 1, 2 and 3 (0.4kV, 10kV, 35kV and 110kV lines) and Section 9	Serbia	Services: <ul style="list-style-type: none"> • Conceptual design; • Preliminary design; • Design for construction permit; • Advisory services to the construction company; • As-built design; 	Elektromontaža d.o.o. Kraljevo (construction part)	08.2020 - present	Employer: PE Roads of Serbia Main Contractor: ENKA Bechtel	
19	Windfarm Bašaid – consultancy and design services related to the grid connection project (110kV OHL and 110kV Switchyard) Design and consultancy services from the analysis of options for connection to the 110kV network to design for construction permit.	Serbia	Services: <ul style="list-style-type: none"> • Draft Design Terms of References for both components (OHL and SWY) • Conceptual design; • Support during the preparation of spatial planning documentation; • Preliminary design; • Design for construction permit; 	Global Substation Solutions d.o.o. Beograd	03.2020 - present	Bašaid Wind d.o.o.	
20	WB21-SRB-ENE-01 - Serbia, North CSE corridor, new 400/110 kV Belgrade West Substation and OHL 400 kV Serbia-Romania: Pre-Feasibility Study including Conceptual Design and Preliminary ESIA Subproject includes 3 components: 1. Substation (SS) 400/110 kV Belgrade West with the alignment of the 400 kV and 110 kV OHLs 2. 400 kV OHL SS Belgrade West – WPP Čibuk 1 (app. 80 km) 3. Upgrade of existing OHL 400 kV Serbia (HPP Djerdap 1) – Romania (Portile de Fier) to double-circuit OHL (app 2 km)	Serbia	Services: <ul style="list-style-type: none"> • Project management (project team leader); • Development of OHL corridor alternatives and technical assessment; • Development of alternative SS locations and technical assessment; • Comparison of project options and Multi Criteria Assessment (MCA) • Pre-Feasibility Study • Conceptual design of OHL and SS – Serbian legislation; 	N/A	07.2020 – 07.2021	Subcontractor to PLANET SA (IPF7 Consortium) End beneficiary: Elektromreža Srbije JSC (TSO in Serbia)	<i>Project financed by European Commission (WBIF – IPF), Lead IFI - KfW</i>
21	400 kV single circuit OHL of approx. 90km between Ekhyddan and Nybro and a new 400 kV single circuit OHL of approx. 80km km between Nybro and Hemsjö Power line engineer for review of detailed design for the Ekhyddan - Nybro - Hemsjö Project / Civil Part (Foundations)	Sweden	Services: <ul style="list-style-type: none"> • Review of detailed design (foundations, earthing, other general documentation) • Participation at project progress meetings with designers and client (SVK); 	N/A	02.2020 – present	Subcontractor to Andersson&Sjöblom Technical Management AB and Vattenfall Services Nordic Employer: Svenska Kraftnät	

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22	35kV OHL and U/G cable SS Vinča – SS Vinča Deponija (2.8 km + 0.36km) and 35kV U/G cable from 35kV OHL No. 357 to SS Vinča Deponija (1.4 km)	Serbia	Services <ul style="list-style-type: none"> • Design for construction; • Preventive Measures Plan; • As-built Design; 	Elektromontaža Kraljevo, Serbia	01.2020 - present	SUEZ Vinca Operator d.o.o. Serbia	
23	Highway E-70/E-75 Belgrade Ring Road, section Dobanovci – Bubanj Potok, Section 6 Design of crossing and reconstruction of two 110kV and three 220kV OHLs	Serbia	Services: <ul style="list-style-type: none"> • Design of towers – including workshop drawings; • Crossing studies; • Design for construction of 110kV and 220kV lines; • Follow-up of construction works and advisory services to the construction company; • As-built design; 	Elektromontaža d.o.o. Kraljevo (construction part)	03.2020 – 07.2021	Employer: PE Roads of Serbia Main Contractor: AZVIRT Beneficiary: Elektromreža Srbije JSC	
24	400kV Interconnection Serbia – Montenegro – Bosnia and Herzegovina (WB13-REG-ENE-01) Technical documentation preparation and TSO support 1. Preliminary and Detailed Design of 400kV OHL in three countries and terminal substation Pljevlja 2 2. ESIA / EIA Report 3. System network and market studies 4. Financial & Economic Assessment 5. Project Implementation Plan	Serbia, BiH, Montenegro	Services <ul style="list-style-type: none"> • Project management; • ESIA / EIA; • Complete design services; 	N/A	09.2019 – 08.2022	Subcontractor to Hill International UK End beneficiaries: TSOs in Serbia, Montenegro and BiH	<i>Project financed by European Commission (WBIF – IPF), Lead IFI - KfW</i>
25	400kV OHL Snösättra – Ekudden - Construction management and supervision - Consultancy services and supervision of construction works on reconstruction of 400kV OHL, including technical management, project administration, review of technical documentation, project management and site supervision. Demolition works on existing line are included in the scope.	Sweden	Services <ul style="list-style-type: none"> • Assistance to technical management and project administration; • Review of technical and project planning documentation (electrical part); • Participation in technical meetings; • Drafting of reports; • Supervision of site works – demolition of existing line and construction of new line; 	N/A	06.2019 – present	Subcontractor to Andersson&Sjöblom Technical Management AB and Vattenfall Services Nordic Employer: Svenska Kraftnät	

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26	110kV OHL No. 148/2 SS Bor 2 – SS Zaječar 2. Lead-in into 110kV SWY Bor 4 for supply of new mining complex (approx. 10 km) Preparation of design documentation, support to the Client in preparation of general documentation (Terms of References), consulting services, construction supervision	Serbia	<u>Contract No.1</u> <ul style="list-style-type: none"> Route of line selection study; Conceptual Design; <u>Contract No.2</u> <ul style="list-style-type: none"> Conceptual Design - update; Preliminary Design; Tender Documents / Tech.Specs <u>Contract No.3</u> <ul style="list-style-type: none"> Design for Construction Permit; Design for Construction; Supervision of construction works Consultancy services / project management 	Subcontractor to Global Substation Solutions d.o.o. Beograd	12.2018 – 06.2021	Rakita Exploration d.o.o. Bor, Serbia from 2020: Serbia Zijin Mining d.o.o. Bor Serbia	
27	OHTL 380 kV Meeden - Diele - Structural check of tower No.2 in front of SS Meeden with PLS TOWER Design services within design of Substation Meeden – related to checking of terminal tower with new loading conditions;	Netherlands	Services: <ul style="list-style-type: none"> Calculation of loads on tower after extension / reconstruction works in the substation, comparison with the loading table used for original design and proposal of measures (without structural analysis); Modeling of the steel structure in TOWER software (Power Line Systems Inc.) using the original tower design data; Checking of steel structure for calculated actual loading table. 	PSR Engineering Solutions / RCM Technologies	06.2019 – 10.2019	End Client: TenneT, Netherlands	
28	Study on crossing of 110kV U/G Cable Line No. 1203/2 SS Beograd 28 – SS Beograd 36 with new facilities (modern sculpture with infrastructure) built at the roundabout „Bogoslovija“ in Belgrade	Belgrade, Serbia	Services: <ul style="list-style-type: none"> Geodetic survey of existing cable line using ultra sound method; Study of relation between existing cable and new facilities; Analysis of inductive influence of cable on metal elements of the sculpture; Preparation of crossing study; 	N/A	06.2019 – 09.2019	Elektromreža Srbije (EMS), Serbia	
29	Design review on projects of HV underground cable lines in the urban areas. Finalized and ongoing projects: <ul style="list-style-type: none"> 110kV U/G cable SS Beograd 17 - SS Beograd 23 "Autokomanda" 110kV U/G cable SS Beograd 23 - SS Beograd 45 110kV U/G cable SS Beograd 45 – TETO Beograd; 	Belgrade, Serbia	Services: <ul style="list-style-type: none"> Technical review and recommendation for improvement of design documents; Participation in technical clarification meetings; Issue of final technical review report; 	N/A	2018 - 2019	Elektromreža Srbije (EMS), Serbia	

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30	<p>Technical Inspection of works on HV underground cable lines (110kV)</p> <p>Technical inspection of works during the construction works and upon commissioning. Finalized and ongoing projects:</p> <ul style="list-style-type: none"> • 110kV U/G cable SS Kruševac 1 - SS Kruševac 3 • 110kV U/G cable SS Beograd 17 - SS Beograd 23 "Autokomanda" • 110kV U/G cable SS Beograd 23 - SS Beograd 45 • T110kV U/G cable SS Beograd 45 – TETO Beograd; 	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Technical inspection, according to legislation of Serbia; • Checking of quality of works, as per approved design documentation, during the duration of works (electrical, civil, telecommunication); • Checking of necessary design documentation, construction logs, certificates and testing documentation; • Checking of compliance of erected material and equipment with tech.documentation; 	N/A	2018 – present (ongoing, numerous projects)	Elektromreža Srbije (EMS), Serbia	
31	<p>110kV OHL No. 107/2, lead-in into SS Ub, length approx. 10km</p> <p>Preparation of design documentation from selection of the route line to Design for Construction and assistance to the Client in the process of provision of consents and permits.</p>	Serbia	<p>Services</p> <ul style="list-style-type: none"> • Route of line selection study; • FS with the Preliminary Design; • EIA Study; • Crossing and other relevant studies; • Design for Construction Permit; • Expropriation study; • Design for Construction; • Tower design; 	N/A	11.2018 – 03.2021	Elektromreža Srbije (EMS), Serbia	
32	<p>220kV OHL for connection of future Co-generation Power Station Pančevo to the Serbian power grid.</p> <p>Design and consultancy services for implementation of the project, including conceptual design of OHL, design of friction piled foundations, preliminary and detailed design of OHL, preparation of tender documents for construction and support in process of provision of permits and consents.</p>	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Route of line selection study, • Conceptual Design of OHL • Preliminary Design of OHL • Detailed design of OHL (2 stages) • Design of friction piled foundations • Tender documents • Assistance in provision of consents and construction permit 	N/A	11.2018 – 01.2021	NIS GAZPROM, Serbia End beneficiary: JSC Elektromreža Srbije (EMS), Serbia	
33	<p>Underground Cable 110kV SS Belgrade 1 - SS Belgrade 6, length approx. 5km in the Belgrade city centre;</p>	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Conceptual design with route of line study • Cable type selection study • Feasibility study with preliminary design • EIA study with EMF measurements • Geotechnical study • Crossing studies • Design for construction permit • Design for construction 	N/A	10.2016 – 10.2020	Elektromreža Srbije (EMS), Serbia	

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34	<p>Consulting Services for Construction of 400 kV Single Circuit Transmission Line Kragujevac 2 - Kraljevo 3 and extension of Substations Kragujevac 2 and Kraljevo 3</p> <p>PIU Consulting services for implementation of the transmission network development project. The services include project preparation and implementation stage.</p>	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Assistance in project management; • Review of design documents; • Preparation of PQ documents and participation in the PQ process; • Preparation of tender documents; • Participation in the tendering process including evaluation; • Contractor's design review and review of other technical documentation; • Supervision of works; • Project reporting; 	Consortium with AF Consult, Switzerland Ltd.	10.2018 - present	Elektromreža Srbije (EMS), Serbia	<i>Project financed by KfW Bank</i>
35	<p>As - built documentation and Reports on operation status of 63 (sixtythree) Overhead Lines (110kV, 220kV and 400kV) in Serbia</p>	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Processing of geodetic survey data (LIDAR and ground survey) in PLS - CADD; • As - built documentation for portion of overhead lines; • Reports on operation status for portion of overhead lines; 	Consortium with: Elektroistok Projektni Biro d.o.o. Serbia, Netinvest d.o.o. Serbia and Vekom Geo d.o.o. Serbia	11.2017 – 12.2019	Elektromreža Srbije (EMS), Serbia	
36	<p>Design services for a steel lattice tower type A10+A30-550_5.0 (tension tower) for 380 kV OHL Airolo - Lavorgo</p>	Switzerland	<p>Services</p> <ul style="list-style-type: none"> • Structural analysis of steel lattice tower in PowerLine TOWER software according to EN 50341-1:2012; • Preparation of TOWER model – BAK file; 	N/A	11.2018 – 12.2018	Bouygues E&S EnerTrans d.d., Switzerland	
37	<p>Technical Inspection of works on HV overhead lines (110kV, 220kV and 400kV)</p> <p>Long - term contract for Technical Inspection of overhead lines, according to legislation of Serbia. Finalized and ongoing projects:</p> <ul style="list-style-type: none"> • 2x110kV OHL Beograd 1 - Beograd 20 • 2x110kV OHL Beograd 3 - Beograd 20 • 2x110kV OHL Beograd 19 - Beograd 20 • 400kV OHL Beograd 8 - Pančevo 2, lead - in into SS Beograd 20 • 400kV OHL Pančevo 2 - border of Romania • 110kV OHL Majdanpek - Mosna • 400kV and 110kV OHL, lead - in into SS Vranje 4 • etc. 	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Technical inspection, according to legislation of Serbia; • Checking of necessary design documentation, construction logs, certificates and testing documentation; • Checking of compliance of erected material and equipment with tech.documentation; • Checking of quality of works and material 	N/A	2015 and onward	Elektromreža Srbije (EMS), Serbia	

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38	<p>Consulting Services for Implementation of Open Programme Extension of the Transmission Network II, EBRD Components</p> <p>PIU Consulting services for implementation of the transmission network development project, including seven 500kV and 220kV overhead lines, 220kV underground cable lines and reconstruction / upgrade of 500kV and 220kV substations in Georgia. The services include project preparation and implementation stage.</p>	Georgia	<p>Services:</p> <ul style="list-style-type: none"> • Review of conceptual design ; • Participation in the PQ process; • Preparation of Technical Requirements within tender documents (OHL and U/G Cable); • Participation in the tendering process including evaluation; • Contractor's design review and review of other technical documentation; • Supervision of works; • Project reporting; 	AF Consult, Switzerland Ltd.	04.2018 - present	Georgian State Electrosystem JSC (GSE), Tbilisi, Georgia	<p><i>Project funded by European Bank for Reconstruction and Development (EBRD);</i></p> <p><i>Consultancy services financed by KfW</i></p>
39	<p>Feasibility Study and Preliminary Design of 225kV OHL Koukoutamba - Balassa (future) - Linsan - Maneah, Guinea (OMVS Project), length approx. 348km</p> <p>PLS - CADD Modeling and OHL Design</p>	Guinea	<p>Services:</p> <ul style="list-style-type: none"> • Conceptual design of OHL, including basic design input data • Assistance in generation and processing of terrain data • Modeling of OHL in PLS - CADD • Initial tower spotting • BoQ for Feasibility Study 	AF Consult, Switzerland Ltd.	10.2017 - 05.2018	Organization for the Development of the Senegal River (OMVS)	
40	<p>Training courses in electricity distribution and transmission topics in Erbil, Iraq (KRG)</p> <p>Training courses include 15 training components, including numerous topics in design, operation, maintenance, repair of distribution and transmission lines, planning and design software (PLS - CADD, PSSE), street lighting, pole climbing and rescue, transmission system standards, etc.</p>	Iraq (KRG)	<p>Services:</p> <ul style="list-style-type: none"> • Preparation of training material (pre - design and design), subject to Client's approval • Presentation of training courses and expert support, including theoretical and practical components; 	Luthardt GmbH, Germany	07.2017 - 05.2018	Republic of Iraq, Kurdistan Regional Government (KRG), Ministry of Electricity	<i>Project funded by Japan International Cooperation Agency - JICA</i>
41	<p>Reconstruction of 110kV OHL No. 102B/1 and 110kV OHL No. 1128/1 in Kostolac, Serbia, for purpose of extension of electric power plant dock;</p>	Serbia	<p>Services:</p> <ul style="list-style-type: none"> • Conceptual design of OHL • Preliminary design of OHL, with details for construction • Crossing and other studies • Supply of steel tower designs • Geology report 	Elektroistok Izgradnja d.o.o.	06.2017 - present	Electric Power Company of Serbia (EPS) - Thermal Power Plant Kostolac	<i>Turn - key contract; E&E is responsible for design part only</i>

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
42	2x400kV OHL for connection of future Wind Farm „Čibuk“ to the HV grid ; total length of the line 10.8 km;	Serbia	Services: <ul style="list-style-type: none"> • Design for construction (electrical part); • As - built design (electrical part); • Internal review of design of towers (6 tower types) - design for construction and workshop drawings;	N/A	05.2017 - 07.2018	ELNOS BL (turn - key contractor) and IEE d.o.o., Serbia	
43	110kV OHL and 110kV Switchyard for connection of future Wind Farm „Alibunar“ to the HV grid ;	Serbia	Services: <ul style="list-style-type: none"> • Overall Project Management Consultancy • Engineer role according to the FIDIC Yellow Book; • Supervision in line with Serbian legislation; 	N/A	02.2017 – 12.2018	Electrawind S d.o.o., Serbia	
44	Workshop drawings related to 4 tower types (selected parts) for 380/132/65 kV OHL Airolo - Mörel, Section Ulrichen - Fiesch	Switzerland	Services: <ul style="list-style-type: none"> • Workshop drawings, prepared in Advance Steel software • Technical specification of material 	N/A	06.2017 - 07.2018	AF Consult, Switzerland Ltd.	
45	Studies on crossings of OHLs (numerous 110kV, 220kV and 400kV lines) over existing or planned facilities in Serbia.	Serbia	Services: <ul style="list-style-type: none"> • Geodetic survey of OHLs and other objects • Modeling of OHL sections • Specific calculations of EMF and on - site measurements • Crossing studies 	N/A	2012 - present	Different Clients; approvals by Elektromreža Srbije (EMS), Serbia	
46	Review of Detailed Design of 35kV OHL Shuakhevi - Skhalta for Skhalta Hydro Power Project in Georgia (developed by Adjaristsqali Georgia LLC); line length approx. 25 km;	Georgia	Services: <ul style="list-style-type: none"> • Preparation of general templates and procedures; • Review of design data and equipment drawings and datasheets; • Resolution of issues related to different design standards - international standards (BS, IEC) and locally applies standards (GOST and PUE); 	N/A	07.2016 - 02.2017	Adjaristsqali Georgia LLC, Georgia	
47	Thermal Power Plants (TPP) „Nikola Tesla“ - blocks A&B and Kostolac - blocks A&B , Monitoring and control of auxiliary consumption		Services: <ul style="list-style-type: none"> • Participation in data collection process; • Assistance in development of preliminary design (with variants) • Development of basic design. 	Consortium with: Electrotechnical Institute „Nikola Tesla“ a.d, Belgrade	04.2016 - present	Elektroprivreda Srbije (EPS), Serbia	

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
48	As - built documentation and Reports on operation status of 85 (eightyfive) Overhead Lines (110kV, 220kV and 400kV) in Serbia for Operation Permit application	Serbia	Services: <ul style="list-style-type: none"> • Processing of geodetic survey data (LIDAR and ground survey) in PLS - CADD; • As - built documentation for portion of overhead lines; • Reports on operation status for portion of overhead lines; 	Consortium with: Elektroistok Projektni Biro d.o.o. Serbia and Energoprojekt Entel ad Serbia	02.2016 - 12.2017	Elektromreža Srbije (EMS), Serbia	
49	Connectivity Networks Gap Analysis Assessment of the identified projects of importance for WB6 region (6 countries in the Western Balkans non - EU countries), preparation of project list, based on ENTSO - E methodologies and TYNDPs and up - to date EU and Energy Community project lists (PCI and PECl)	Serbia, Montenegro, BiH, Kosovo*, Albania and Macedonia	Services: <ul style="list-style-type: none"> • Energy (Electricity) Expert / GIS Expert Energy - responsible for identification of projects and coordination of GIS application concept preparation; • Technical Assessment of selected Energy / Electricity projects in the Study Stage; 	Subcontractor to IPF3 Consortium, led by Mott MacDonald	02.2016 - 06.2016	European Union, through Western Balkans Investment Framework, Infrastructure Projects Facility (IPF3)	<i>Project financed by European Commission (WBIF - IPF)</i>
50	Feasibility Study and Preliminary Design - Feasibility Study - 400 kV OHL SS Bajina Basta - SS Kraljevo 3 (WB9 - SER - ENE - 01) The project consists of two components: 1) 400kV OHL with Section 1 state border / Višegrad - SS Požega and Section 2 SS Požega - SS Kraljevo 3i 2) Upgrade of SS 220/110/35kV Požega to 400kV SS 400/220/110/35kV Požega and Equipping of OHL bays in SS Kraljevo 3	Serbia	Services: <ul style="list-style-type: none"> • Project Management • Transmission Construction Expertise (OHL and SS) • 400kV OHL line routing, assessment of alternatives; • Technical Assessment (OHL); • Preliminary Design documents for 400kV OHL as per SRB legislation; • Finalization of ESIA documents as per SRB legislation • Project Implementation Plan 	Subcontractor to IPF3 Consortium, led by Mott MacDonald	07.2015 - 04.2018	European Union, through Western Balkans Investment Framework, Infrastructure Projects Facility (IPF3) Beneficiary: Elektromreža Srbije, TSO of Serbia	<i>International Financial Institution: KfW</i>
51	110kV OHL Murska Sobota - Mačkovci (length approx. 13km) Design for construction and As - built design (electrical part)	Slovenia	Services: <ul style="list-style-type: none"> • OHL design with preparation of profile drawings, calculations and checking, line schedule • Preparation of As - built design 	Subcontractor to Korona d.d. (Slovenia)	03.2015 - 11.2015	Elektro Maribor, Maribor (Slovenia)	

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
52	Supervision of construction works on reconstruction of existing 110kV, 220kV and 400kV OHL on crossings of new Highway E - 763, section 3: Obrenovac - Ub: <ul style="list-style-type: none"> • 110kV OHL No.121/2, 121/3 • 220kV OHL No. 213/1, 213/2, 204, • 400kV OHL No. 436, 412 	Serbia	Services: <ul style="list-style-type: none"> • Supervising Engineer in accordance with legislation of Serbia; • Supervision of electrical and civil works; • Checking of technical solutions; • Participation in FAT and SAT; • Coordination with the Client and Beneficiary; • Approval of interim and final payment certificates 	N/A	12.2015 - 07.2016	Ministry of Construction, Traffic and Infrastructure Beneficiary: EP Elektromreža Srbije	
53	2x35kV OHL for lead - in into SS Niš 15 (Doljevac), length approx. 3.5km	Serbia	Services: <ul style="list-style-type: none"> • Detailed Design - Design for Construction; • Profile survey and selection of the route of line 	N/A	2015 - 2017	Electric Power Company of Serbia (EPS)	
54	35kV OHL Stragari - Bare - Knić (close to Kragujevac), with lead - in into substations and 35kV underground cable sections, length approx. 30km	Serbia	Services: <ul style="list-style-type: none"> • Preliminary Design with preparation of longitudinal profile drawings and tower spotting; • Profile survey and selection of the route of line 	N/A	2015 - 2017	Electric Power Company of Serbia (EPS)	
55	2x110kV OHL SS Pančevo 2 - new SS for connection of Wind Park “Bela Anta” (length approx. 10km); Conceptual solutions with study of alternatives, Preliminary and Detailed Design, Expropriation Studies	Pančevo, Serbia	Services (OHL part): <ul style="list-style-type: none"> • Studies of OHL corridors and selection of technical solutions (towers, wires) • 110kV OHL line routing: Preliminary and Alignment Survey of OHL corridors, assessment of alternatives; • Preliminary and Detailed Design documents; • Expropriation Study 	N/A	03.2015 - present (project on hold)	Wellbury Bela Anta d.o.o. Belgrade, Serbia	
56	Feasibility Study and Preliminary Design - Electricity network expansion for the development of RES Energy - (Project No. WB6 - MNE - ENE - 06) The project consists of the three elements: 1) 110 kV OHL Vilusi - Herceg Novi 2) Phase 1 of SS Brezna (110kV), including lead - in of 110kV OHLs 3) Phase 1 of SS Brezna (400kV), including lead - in of 400kV OHL - link to 400kV OHL Lastva - Čevo	Montenegro	Services (OHL part): <ul style="list-style-type: none"> • 110kV and 400kV OHL line routing: Preliminary and Alignment Survey of OHL corridors, assessment of alternatives; • Technical Assessment (OHL) as per EBRD requirements; • Preparation of Preliminary Design documents for 110kV line and 400kV lead - ins as per MNE legislation; • Project Implementation Plan; 	Subcontractor to IPF3 Consortium, led by Mott MacDonald	05.2015 - 09.2018	European Union, through Western Balkans Investment Framework, Infrastructure Projects Facility (IPF3) Beneficiary: Crnogorski Elektroprenosni Sistem (CGES), TSO of Montenegro	<i>International Financial Institution: EBRD</i>

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
57	220 kV OHL Akhaltsikhe - Batumi (Georgia) Consulting services for preparation of Bidding Documents	Tbilisi, Georgia	Services: • Review of OHL Design and Bidding Documents • Assistance to the Client in the BD finalization and clarification procedure	N/A	06.2014 - 01.2015	Georgian State Electrosystem JSC (GSE), Tbilisi, Georgia	<i>Project financed by World Bank</i>
58	Reconstruction of tram railroad infrastructure (rails, traction power network and roads) in Vojvode Stepe Street in the City of Belgrade Construction Supervising Engineer as per FIDIC Red Book (2014)	Belgrade, Serbia	Services: • Supervising Engineer team - four key expert positions • Review of Contractor's documentation • Site monitoring of construction, approval of progress plans • Supervision of commissioning and testing	Consortium with Highway Institute, Belgrade	07.2014 - 07.2015	City of Belgrade, Investment and Habitation Agency	<i>Project financed by EBRD</i>
59	Preliminary design (PGD) for construction of substations 35/10kV and 35kV overhead transmission lines The project includes the following facilities: 1) Two SS 35/10kV, Bancarevo and Momin kamen; 2) Four 35kV OHLs (total length approx. 26km)	Serbia	Services: • Selection and survey of locations and route of line • Preliminary design for construction permit (PGD)	Consortium with: GSS d.o.o, Belgrade, ABR d.o.o, Niš and Highway Institute, Belgrade	04.2014 - 05.2017	Elektroprivreda Srbije (EPS), PD Jugoistok Niš (ED Niš)	
60	110kV OHL SS Jagodina 3 - SS Jagodina 4 , length approx. 5km Design of OHL reconstruction - establishment of optical connection by OPGW or SkyWrap wire	Jagodina, Serbia	Services: • Update of existing design documents - profile survey, longitudinal profiles; • Comparison study of applicable solutions and proposals for the Client • Detailed design of OHL reconstruction	N/A	01.2014 - 12.2014	Elektroprivreda Srbije, PD Elektrosrbija Kraljevo, ED Jagodina, Serbia	
61	2 x 500 kV OHL Meikhtila - Toungoo in Myanmar Consulting services and design of steel lattice towers and foundations	Myanmar	Services: • Preparation of technical conditions and specifications • Detailed design with workshop drawings of two types of steel lattice towers and foundations • Consulting services to the Contractor	Subcontractor to Invest Import International Ltd., Serbia	2013 - 2014	Myanmar Electric Power Enterprise (MEPE), Yangon, Myanmar	

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
62	400 kV Interconnection Serbia - Montenegro - Bosnia and Herzegovina (Energy - WB5 - REG - ENE - 02) Feasibility Study, ESIA Study and Technical Design of 400kV Interconnection and Terminal Substations; Total length of lines Length of lines: 85km (SRB), 17km (BIH) and 15km (MNE)	Serbia, Montenegro, BIH	Services: <ul style="list-style-type: none"> • Preliminary Design of 2x400kV interconnection lines • Conceptual Design of terminal substations 400/xkV • Technical report and Project Implementation Plan • ESIA Study 	Subcontractor to WYG International Ltd., UK (Phase 1) COWI A/S, Denmark (Phase 2)	03.2013 - 03.2015	European Union, through Western Balkans Investment Framework, Infrastructure Projects Facility (IPF1) Beneficiaries: TSOs and ISOs of Serbia, Montenegro and BiH	<i>International Financial Institution: EBRD</i>
63	Feasibility Study with Preliminary Design of 220/110kV SS Bistrica , with access road and local road reconstruction	Kokin Brod, Serbia	Services: <ul style="list-style-type: none"> • Feasibility Study per Local Legislation • Preliminary Design (electrical, civil, telecom., geology) 	N/A	2013 - 2014	Elektromreža Srbije (EMS), Serbia	Update and extension of documentation prepared in 2010
64	33 kV S/C, D/C & Q/C OHT ABA IPP Distribution System (95 km), Nigeria	Aba, Nigeria	Services: <ul style="list-style-type: none"> • Proj. Management • Detailed design • Engineering • Construction Supervision 	Subcontractor to ABB Powerlines, Nigeria	2008 - 2013	Geometric Power Limited (GPL), Abuja, Nigeria	<i>Project co - financed by Diamond Bank, Nigeria</i>
65	Highway E - 70/E - 75, Belgrade Ring Road, Sector 1 - 4, Sector 6, Section Batajnica - Dobanovci and Interchange Dobanovci Reconstruction of crossing overhead lines 35kV, 110kV, 220kV and 400kV (approx. 15 overhead lines)	Belgrade, Serbia	Services: <ul style="list-style-type: none"> • Preliminary survey for approval of route of lines corridors and preparation of draft ToR's • Preliminary and Detailed Design of lines 	Subcontractor to Highway Institute, Belgrade, Serbia	2011 - 2013	Public Enterprise "Putevi Srbije", Belgrade, Serbia	
66	National Integrated Power Projects, LOT 19 a) 330 kV S/C OHL Benin Main - Benin North (12 km) b) 330 kV D/C OHL Benin North - Okada (14km)	South Nigeria	Services: <ul style="list-style-type: none"> • Engineering • Detailed design 	Consortium with Steers International, Nigeria	2007 - 2012	National Integrated Power Projects (NIPP), Abuja, Nigeria	

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
67	Steel Lattice Towers, “Y” shaped, for 400kV OHL, with foundations (3 types) Detailed Design with Workshop Drawings	Beograd, Serbia	Services: • Detailed Design • Workshop Drawings	N/A	2010 - 2011	Elektromreža Srbije (EMS), Serbia	Technical optimization and extension of design
68	SS 110/10kV “Beograd 23 Autokomanda” , Belgrade, Serbia; Switchgear 110kV in GIS (SF6) technology - Basic Electrical Design and Tender Dossier	Belgrade, Serbia	Services: • Feasibility Study, • Preliminary Design, • Tender Dossier, • Fire Protection Study	N/A	2010 - 2012	Electric Distribution Company of Belgrade (EDB), Belgrade, Serbia	
69	NNPC / MPN Joint Venture Power Project, Project C658 330kV D/C OHL QIT - Ikot Abasi, length approx. 60 km	South of Nigeria	Services: • Conceptual Design • Tender Documents for supply and construction works.	Subcontractor to ILF, Germany Partnership with: GOPA intec, Germany	2010 - 2011	NNPC / MPN Joint Venture Power Project (JVPP), Nigeria	Overall project comprises several sub - projects, including large scale power plant and infrastructure
70	Feasibility Studies for Electricity Transmission Cross Border Investments in the Republic of Serbia a) 2x400 kV OHL Serbia - Romania and b) SS 220/110 kV Bistrica	Pančevo, Vršac, Kokin Brod, Serbia	Services: • Feasibility Study • EIA study and • Basic design.	Consortium with MVV decon, Germany	2009 - 2010	Elektromreža Srbije (EMS), Serbia Delegation of the EU (DEU), Serbia	Project financed by <i>Delegation of the European Union to the Republic of Serbia (DEU)</i>
71	330kV S/C OHL Lokoja - Obajana (28 km)	South Nigeria	Services: • Detailed design	Consortium with Steers Intl, Nigeria	2009	National Integrated Power Projects (NIPP), Abuja, Nigeria	E&E is the Leading partner of the Consortium
72	400kV OHL Niš 2 - Štip (MK), section 1 and 2 Niš 2 - Border of Macedonia (141 km) Consultant - Supervising Engineer during Construction according to FIDIC (Red Book)	Niš, Leskovac, Vranje, Serbia	Services: • Assistance in preparation of implementation plans, • Consultancy to the Employer on project and site management issues, • Progress assessment and verification, • Site monitoring for construction, • Quality control and • Supervision of commissioning / testing.	Subcontractor to: DECON, Germany	2008 - 2010	Elektromreža Srbije (EMS), Serbia Delegation of the EU (DEU), Serbia	Project financed by Delegation of the European Union to the Republic of Serbia (DEU)

No	Project Name	Location	Contractual Role and Services of E&E	Affiliate Company	Period of Contract	Employer and Place	Notes
73	330 kV D/C OHL Alaoji - Calabar (150km)	Calabar, Nigeria	Services: <ul style="list-style-type: none"> • Project Management • Technical specifications and clarifications with manufacturers • Detailed design, including site survey, geotechnical reports • Participation in FATs 	Subcontractor to Energovod Nigeria	2003 - 2010	Power Holding Company of Nigeria, Abuja, Nigeria	
74	Implementation of telecommunication system of EPCG, Component 1 - Optical Network (400kV, 220 kV and 110 kV OHL, length approx. 540 km)	Podgorica, Montenegro	Services: <ul style="list-style-type: none"> • Detailed design • Checking and design for rehabilitation of towers • Tender documents and assistance in evaluation • Supervision of the project implementation 	Subcontractor to: KORONA, Ljubljana	2008 - 2009	Electric Power Company of Montenegro (EPCG), Podgorica, Montenegro	Project financed by World Bank
75	Power Network System of Belgrade 110kV UG Cable SS Belgrade 1 - SS Belgrade 6	Belgrade, Serbia	Services: <ul style="list-style-type: none"> • Basic design of 110/10 kV UG cable, with connection of terminal points by OPGW and terminal equipment • EIA study and soil investigation study 	N/A	2007; 2011	Electric Distribution Company of Belgrade (EDB), Belgrade, Serbia	
76	400kV OHL Niš 2 - Štip (MK), section 2: Leskovac 2 - Border of Macedonia (100 km), with deviations near Vranjska Banja	Leskovac, Vranje, Serbia	Services: <ul style="list-style-type: none"> • Detailed design of OHL • Detailed design of towers • Tender Dossier (Technical Specifications) 	Subcontractor to DECON, Germany:	2007 - 2008	Elektromreža Srbije (EMS), Serbia Delegation of the EC (DEC), Serbia	Project financed by Delegation of the European Commission to the Republic of Serbia (DEC)