

CONSORTIUM OVERVIEW

N ^o	Partner name	Short name	Country	Expertise	Role in the project	Main function in the Project
1	Poznan University of Technology	PUT	Poland	University <ul style="list-style-type: none"> • Diagnostics of power equipment <ul style="list-style-type: none"> - dielectric response analysis - physical-chemical analysis - thermovision • High voltage measurements <ul style="list-style-type: none"> - partial discharges - electric field - overvoltages • Computer analysis and simulation of phenomena in dielectrics 	<ul style="list-style-type: none"> • Coordinator of the Project • Leader of WP1, WP5 and WP8 	<ul style="list-style-type: none"> • Management of the Project • Research on samples and models • Investigation of drying process of transformer using mobile system
2	AREVA T&D	AREVA	Germany	Enterprise <ul style="list-style-type: none"> • Power generation • Electricity transmission • Electricity distribution 	<ul style="list-style-type: none"> • Partner 	<ul style="list-style-type: none"> • Manufacture of samples and model transformers • Service of power transformers • Strict co-operation with USTUTT
3	Chalmers University of Technology	CHALMERS	Sweden	University <ul style="list-style-type: none"> • Material engineering for high voltage systems <ul style="list-style-type: none"> - dielectric response analysis - degradation of dielectrics • Diagnostics of power transformers • Computer modelling of phenomena in transformers 	<ul style="list-style-type: none"> • Partner • Leader of WP9 	<ul style="list-style-type: none"> • Research on samples and models • Computer modeling of moisture migration phenomena • Work in the scope of standardisation
4	Manufacture and Repairing Enterprise "ENERGETYKA CZERWONAK"	CZERWONAK	Poland	Medium Size Enterprise <ul style="list-style-type: none"> • Repair of power equipment: <ul style="list-style-type: none"> - transformers - generators - motors • Maintenance of power transformers in the field • Piece and experimental production 	<ul style="list-style-type: none"> • Partner • Leader of WP6 	<ul style="list-style-type: none"> • Manufacture of chosen component parts of mobile system • Tests of mobile system • Drying of power transformers on-site

5	Delft University of Technology	DELFT	Netherlands	University <ul style="list-style-type: none"> • Partial discharges measurements: <ul style="list-style-type: none"> - recognition and localisation of defects in transformers, cables and electrical machines • Diagnostics of power transformers insulation • Asset management of power systems 	<ul style="list-style-type: none"> • Partner • Leader of WP7 	<ul style="list-style-type: none"> • Asset Management - managing the drying maintenance of power transformers • Work in the scope of standardisation
6	Institute of Power Engineering, Transformer Division	IEN	Poland	Industrial Research Center <ul style="list-style-type: none"> • Transformer tests and measurements • Diagnostics of transformer condition • On-site oil processing performed off-line or on-line by means of mobile Oil Treatment Units, manufactured by IEN • Project and manufacture of stationary LFH plant for drying of transformers insulation • Project and manufacture of power-electronic systems • Computer aided control and measurement systems 	<ul style="list-style-type: none"> • Partner • Leader of WP4 	<ul style="list-style-type: none"> • Project and manufacture of main parts of mobile drying system • Technological tests of mobile systems
7	Stuttgart University	USTUTT	Germany	University <ul style="list-style-type: none"> • Temperature distribution modeling in power transformer insulation • Diagnostic of power transformers <ul style="list-style-type: none"> - partial discharges measurements - evaluation of windings deformation - dielectric response analysis • Diagnostics of SF₆ systems 	<ul style="list-style-type: none"> • Partner • Leader of WP2 and WP3 	<ul style="list-style-type: none"> • Investigation of transformer models • Computer simulation of temperature distribution in dried transformer • Work in the scope of standardisation
8	National Research, Development & Testing Institute for Electrical Engineering	ICMET	Romania	Industrial Research & Testing Institute <ul style="list-style-type: none"> • Accredited High Voltage & High Current Tests • On site Partial Discharges Measurement on Power Transformer by Electrical and Acoustic Emission Metter • Project and manufacture of special force measuring systems 	<ul style="list-style-type: none"> • Partner • Leader of WP10 	<ul style="list-style-type: none"> • Influence of oil-paper insulation ageing on axial clamping forces of windings • Development of an integral clamping force measuring system for power transformers • Algorithm to determine the weakening of axial clamping through drying process on refurbished transformers