ekoNET -
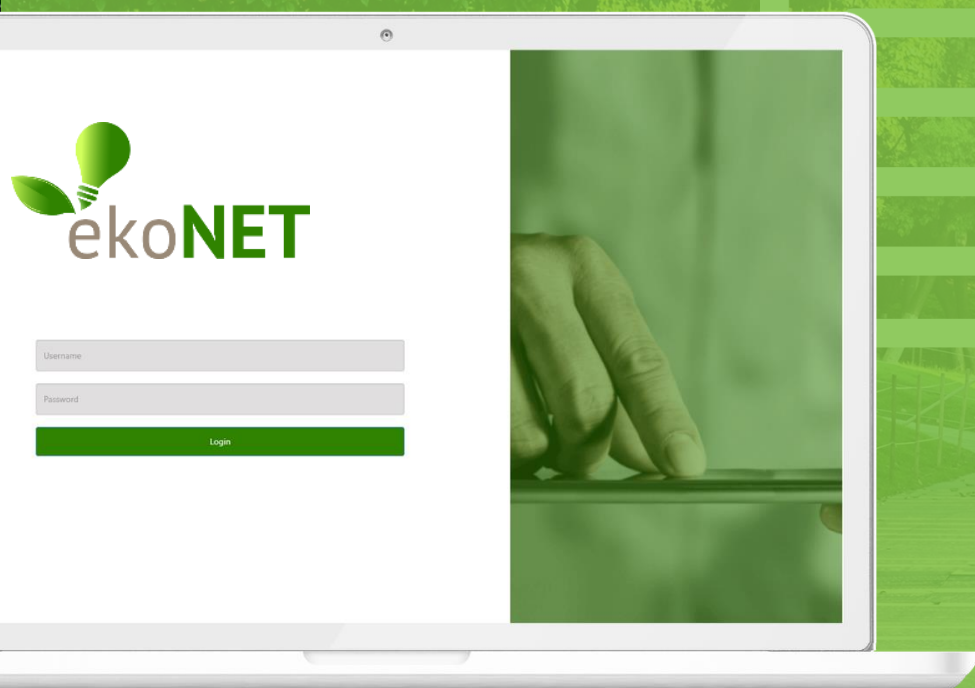
White Paper

ekoNET service is designed to provide an affordable end-to-end solution for air quality monitoring leveraging IoT (Internet of Things) and cloud technologies. The service includes all necessary components: connected device equipped with sensors for measurement of concentration of different gases in the air, cloud based storage and analytics engine as well as visualization and administration modules in the form of web and mobile applications.

ekoNET SYSTEM COMPONENTS

- Air quality m onitoring devices (AQ10x device)
- Database for permanent data storage (MS Azure based)
- Data analytics engine (MS Azure based)
- Visualization engine (MS Azure based)
- Administration module (MS Azure based)
- Web and mobile applications for data visualization

SERVICES

- Technical support for AQ10x device operation and maintenance
- Sensor calibration based on "real" measurements and reference data (e.g. from air quality monitoring stations)
- Firmware parameters management (update and retrieval) is supported

Powerful reporting	• Dashboard view to visualize real-time and historical measurements • CAQI calculation and reporting • Mobile app and web widget for more flexibility
Flexible configuration	• Multiple communication interfaces (WiFi, GPRS, 3G, 4G, LoRa, NB-IoT, BLE) • Rich set of sensors to choose from (PM, NOx, SO2, CO, CO2, O3, temperature, humidity, air pressure, noise, etc.)
Secure, enterprise grade environment	• Deployed on MS Azure for security and reliability • On ours or yours cloud subscription for increased control of private data • GDPR compliance

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