Breakthrough collaboration technologies deployed to create a vital knowledge base

As the use of carbon-intensive fuels for power generation diminishes over the coming decades, governments across the world are turning to a new generation of more environmentally-friendly power sources such as solar, wind, wave and nuclear.

The safe and on-time delivery of "New Nuclear" power stations requires ever-closer collaboration and sharing of potentially scarce, specialised know-how between scientists, regulatory bodies and the supply chain in different organisations, operating on a 24x7 basis. But if this were to be accomplished through conventional means including physical travel for meetings, efficiency would suffer and the environmental impact of travel must also be taken into account.

The highly renowned International Atomic Energy Agency works with its Member States and multiple partners worldwide to promote **safe, secure and peaceful nuclear technologies.**

KorteQ Limited has helped the Agency to streamline this daily collaboration through an innovative ***knowledge base***.

This secure and scalable solution, based on a Microsoft Windows SharePoint platform, enables IAEA members to share vital data and knowledge, connected to diverse sources of high-integrity information. In order to promote wider dissemination of non-confidential intelligence, the solution was engineered to include more open access for members of the general public.

Furthermore, the member states each have a space customised to meet their specific needs, all within a consistent and user friendly template. For example, certain members have secure access to a ***Technical Exchange Forum***, which is operated in the UK by British Energy (part of EDF Energy).

Tony Wickham, chairman of the project, is excited about unlocking the value from over sixty years' worth of data: "Graphite was developed as a nuclear moderating material in the 1940's, and has been utilised in production reactors in USA, former Soviet Union, France and the United Kingdom. A wealth of data exists but it is often personally stored as hard copy in various places around the globe: as such it is at risk of deterioration and loss."

"With the web-enabled knowledge base, we are able to scan, save and immediately share these vital resources with the community" he continued, "and the development of high-temperature reactors will rely on this historical intelligence. We now have an extremely valuable tool supporting the future use of carbon and graphite materials within the nuclear industry."

Bismark Tyobeka, the scientific secretary for the project who is based at IAEA headquarters in Vienna, also recognises the benefits of on-line knowledge sharing: "This really is a state-of-the-art portal system, connecting many disparate information sources and it will be of great value to IAEA members."

As a new generation of engineers is drawn to an exciting future working in the resurgent low carbon energy sector, such solutions for continuous knowledge management are coming to represent the ultimate in efficient, environmentally-friendly working practices. KorteQ's help in ensuring that these benefits can be achieved and sustained, is appreciated by many of the leading organisations operating in this sector.