

The THERMOSELECT Process: Common Position of JFE Engineering and THERMOSELECT SA

1. JFE Engineering (JFE) and THERMOSELECT SA (TS) **regret the decision** of EnBW to shut down their THERMOSELECT plant in Karlsruhe.
2. TS and JFE are convinced of the **ecological advantages** of the THERMOSELECT process which allows to recycle various kinds of waste without environmental impact e.g. by **dioxins** or **high amounts of residues**.
3. The statements from Prof. Hartkopf (technical director EnBW) regarding **too high risks** in connection with the operation of the Karlsruhe plant are completely unclear for TS and JFE.
4. Today, the THERMOSELECT **technology is proven** in Japan. Two plants are in commercial operation. Further plants are under construction or in the planning phase.
Beginning of 2005, six THERMOSELECT plants will be in operation in Japan; this number will increase to seven until mid 2006.
5. Independent auditors and organisations confirm that the **THERMOSELECT process is safe** both in terms of health and labour protection as well as in regard to its environmental impact.
6. Today, THERMOSELECT plants achieve an **overall availability** equal or higher than conventional incinerators or other thermal waste treatment technologies.
7. Future THERMOSELECT plants in Japan are designed for **advanced energy conversion** to fully take profit of the THERMOSELECT process, which converts waste into an energy rich, high value synthesis gas mainly composed of carbon monoxide (CO) and hydrogen (H₂).
This synthesis gas can be converted into electricity with highly efficient gas engines or fuels power stations; it may also serve to produce hydrogen or other chemical feedstock (e.g. Methanol).
8. The first Japanese THERMOSELECT plant in Chiba, operated by JRC (Japan Recycling Corporation), demonstrates the **commercial competitiveness of the technology** as compared to other thermal waste treatment processes.
9. In Japan, over the last 3 years of operation the process was systematically **fine tuned and optimised** for best performance and reduced operation costs.
10. JFE and TS are convinced that the THERMOSELECT process belongs to the **leading advanced waste recycling technologies** worldwide.