

**MEXT** MINISTRY OF EDUCATION, CULTURE, SPORTS,  
SCIENCE AND TECHNOLOGY-JAPAN



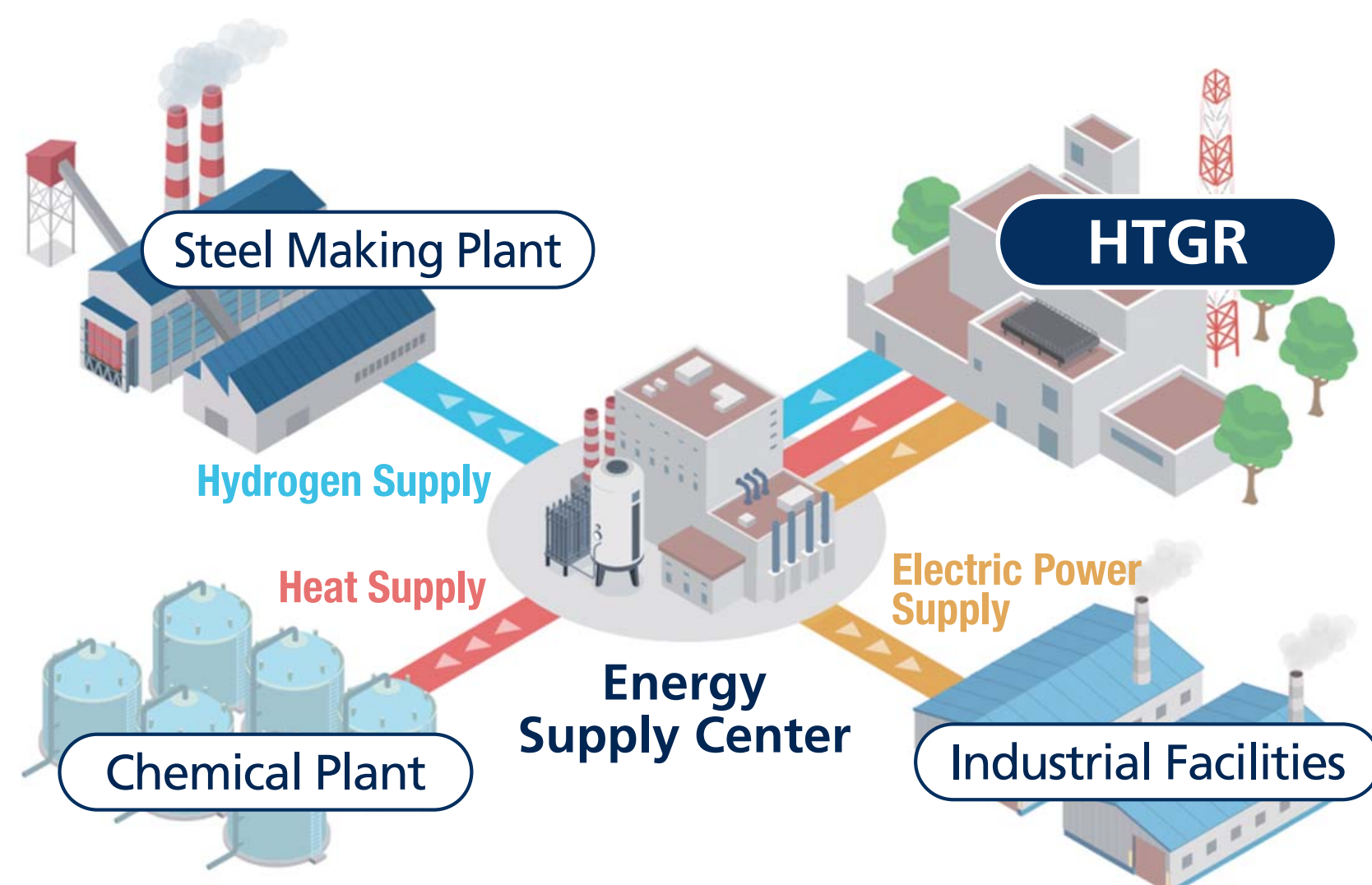
**Japan Atomic Energy Agency**

## Realize Carbon Neutrality with the R&D of Advanced Reactors

### Flexible heat utilization by High Temperature Gas-cooled Reactor (HTGR)

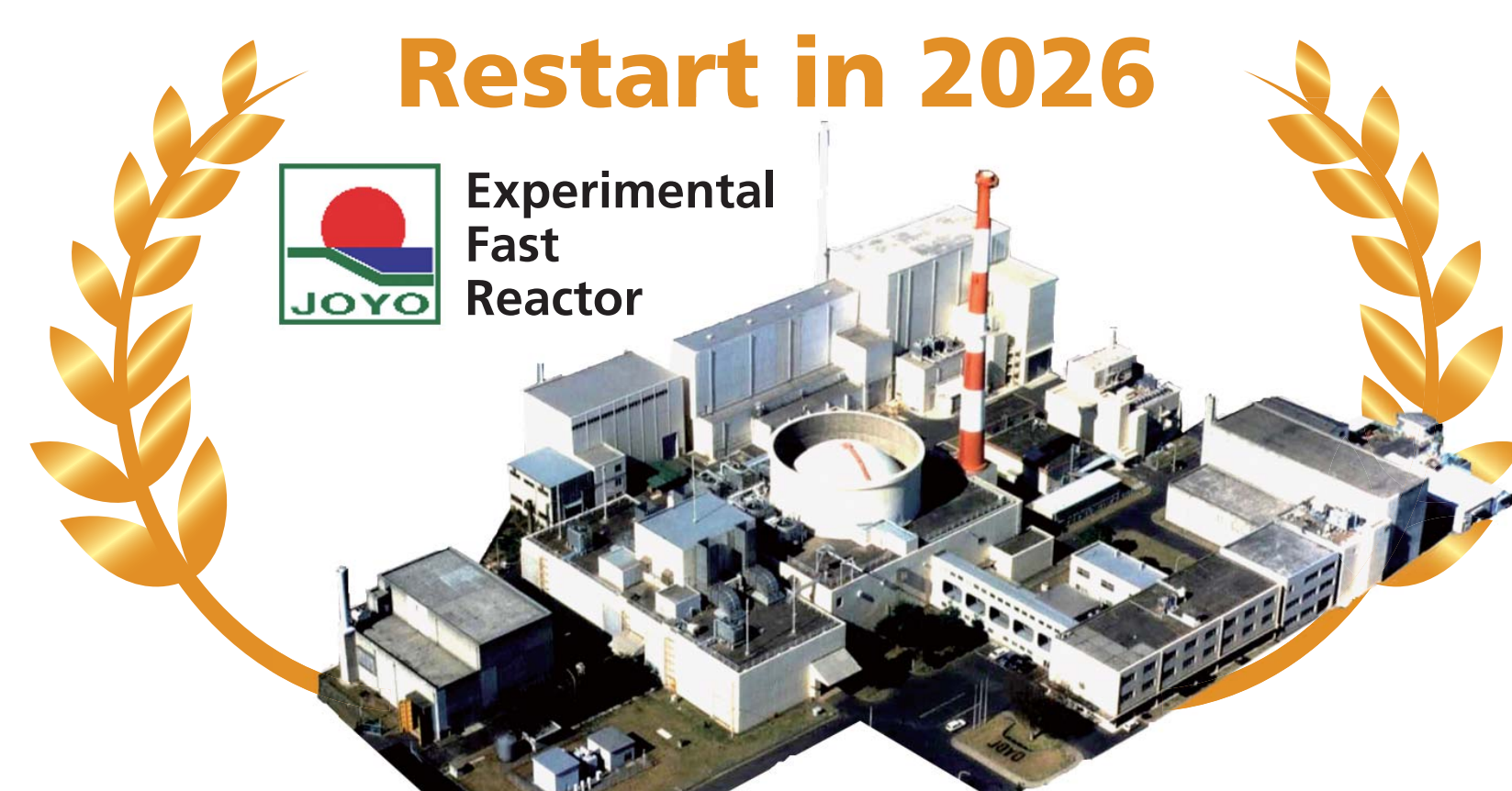
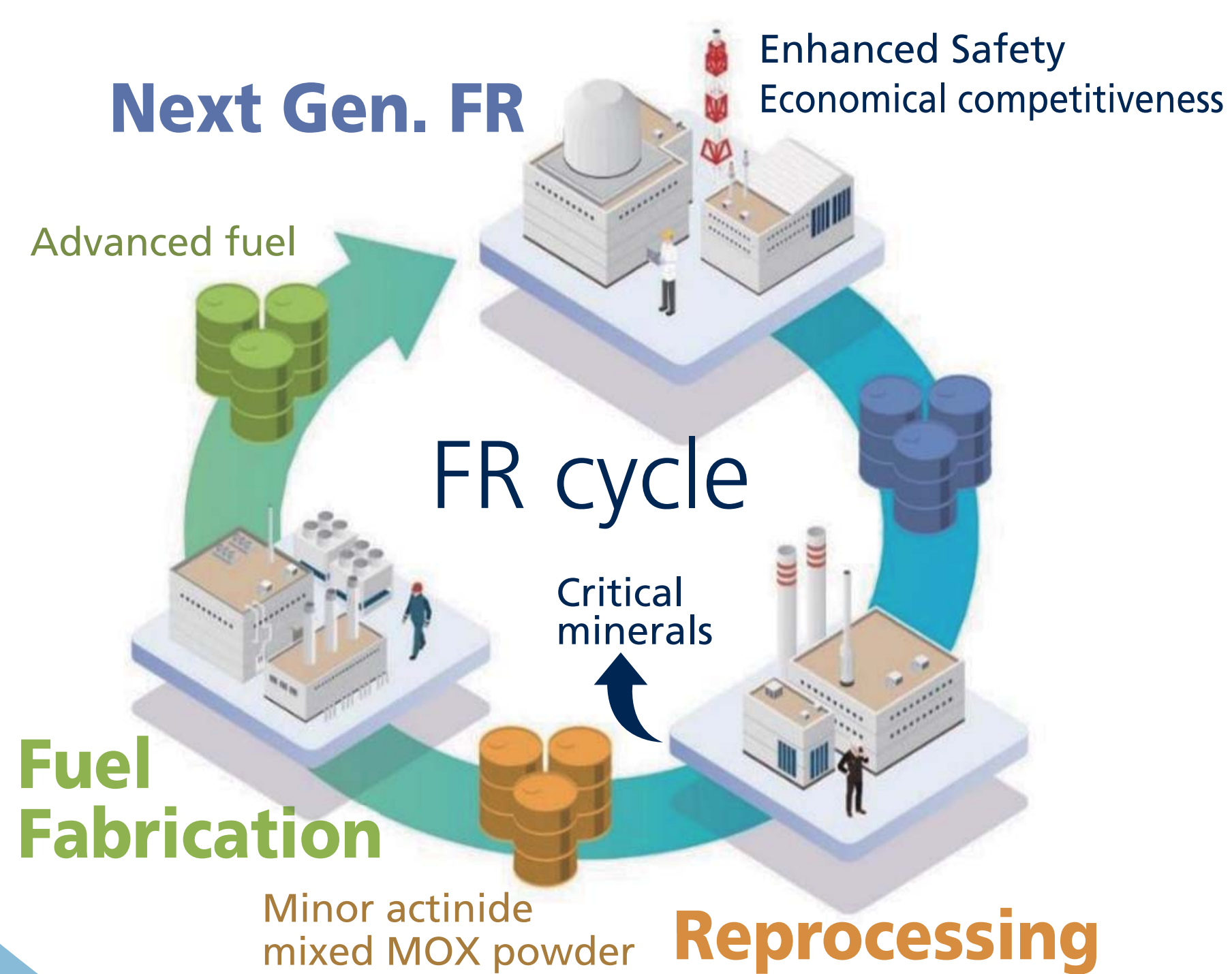
HTGR can supply high-temperature heat, which can be used for a wide range of applications.

The superior safety allows siting close to areas of demand.



### Establishment of Fast Reactor (FR) cycle

FR contributes to a net-zero carbon world, energy sustainability, HLW-reduction, and non-electric applications for nuclear energy.



- Fast Neutron Irradiation  
> Basic research, versatile usage
- Development on Japanese Demo-FR
- RI Production  
(e.g. Ac-225 for cancer treatment)

