

## About Us



## The Clean Nuclear Energy from The Perfect Management of Radiation!

Safe nuclear power comes from complete radiation management!

### About Us

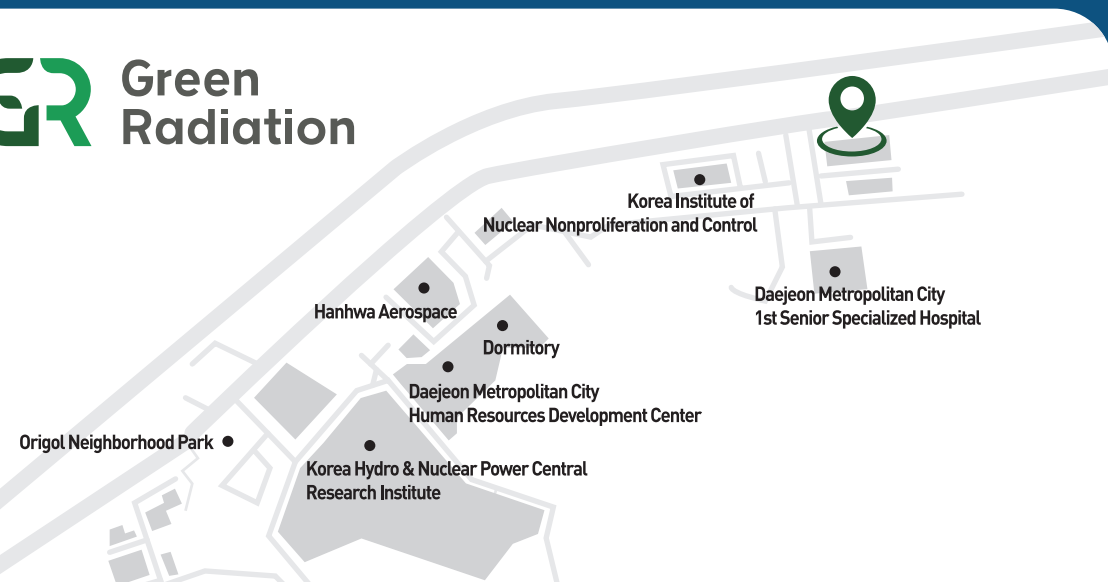
A research institute company founded by researchers in the radioactive waste field at Korea Hydro & Nuclear Power Co., Ltd. and the Korea Atomic Energy Research Institute.

### Vision

We will strive to become a global company in radioactive waste management technology by 2033.

### History

- 2021**
- May 1 Selection/agreement for in-house venture development program with Ministry of SMEs and Startups and Startup Promotion Agency
  - Sep. 7 Basic agreement for establishment of Korea Hydro & Nuclear Power Co., Ltd. research institute company
  - Sep. 17 KHNP Co., Ltd. 2nd in-house venture selection/agreement
- 2022**
- Feb. 21 Korea Hydro & Nuclear Power Co., Ltd. registered as a start-up company (spin-off)
  - Mar. 2 Small business registration
  - Mar. 12 Registered as a start-up company
  - Apr. 11 Designated as a KAERI-Family company (Designation No. 2022-276)
  - May 1 Selection/implementation of initial startup package by Ministry of SMEs and Startups and Startup Promotion Agency
  - Jul. 6 Registered as Korea Hydro & Nuclear Power Co., Ltd.'s first research institute company (No. 1436)
  - Aug. 22 Engineering business report (Declaration No. E15000411)
  - Aug. 31 Received award in the 3rd Startup-Based ESG Realization Contest (Encouragement Award)
  - Oct. 11 Technology evaluation for investment TI-3 (Korea Evaluation Data)
  - Oct. 21 Establishment of a corporate research center (No. 2022114760)
  - Oct. 27 Received award in R&D Special Zone ESG Startup Idea Competition (Encouragement Award)
  - Dec. 15 Acquired KOLAS testing agency accreditation (Accreditation No. KT1074)
- 2023**
- Feb. 1 Venture business certification (Issuance No. 230201030035)
  - Jul. 1 Registered plant (Control No. 302002023060585)



### Green Radiation Co., Ltd.

#### Head Office & Plant

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[www.greenrad.kr](http://www.greenrad.kr)

Research institute company invested by Korea Hydro & Nuclear Power Co., Ltd.  
KAERI-Family company



[www.greenrad.kr](http://www.greenrad.kr)

Clean Environment  
on Green Radiation!



# Business areas, Partners and Current status of client companies



## Business areas

- Treatment of low- and intermediate-level radioactive waste
- Waste air purifier treatment and exemption technology services
- Recycling of waste activated carbon
- Impregnated activated carbon performance inspection service

## Partners

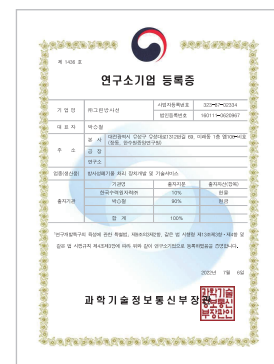


Korea Reactor Integrity Surveillance Technology Co.,Ltd



## Customers

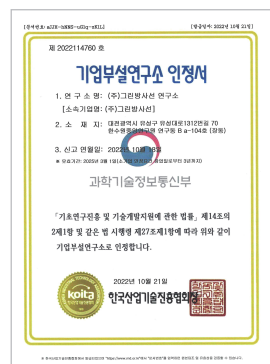
- Domestic operated nuclear power plants, nuclear cycle facilities and large hospitals
- Overseas decommissioned nuclear power plants and nuclear power industries
- Domestic decommissioned nuclear power plants and nuclear power industries
- Nuclear power plants operated overseas
- Oversea exported nuclear power plants (UAE BNPP, etc.)



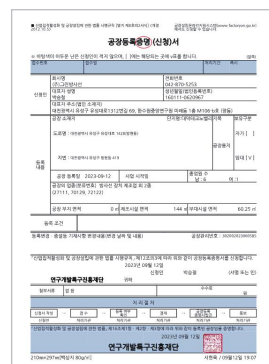
Research Institute Company Registration Certificate



Venture Business Confirmation



Certificate of Recognition for corporate research institute



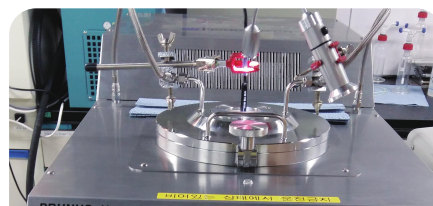
Factory Registration Certificate

# Radioactive Waste Treatment Technology

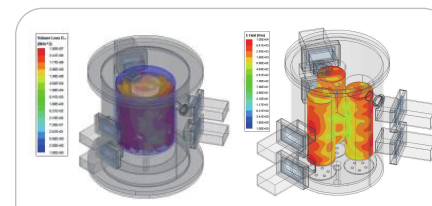


## Technology for disposal of waste activated carbon from nuclear power plants

- Development of Treatment Technology for Waste Air Purifier Using negative pressure microwave equipment
- Development of Microwave Equipment for treatment of Waste Air Purifier in Lab Scale
- Development of Microwave Equipment for treatment of Waste Air Purifier on a Pilot Scale
- 9 IPs related to waste activated carbon treatment technology (including 6 technology transfers)



Lab scale microwave device



Computer simulation of waste activated carbon heating



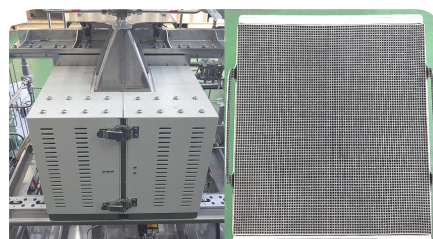
Heating waste activated carbon by microwaves



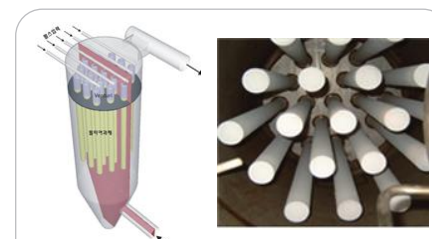
Pilot scale microwave device

## Radioactive off-gas treatment technology

- Removal of harmful gases and dust generated during melting and processing of radioactive waste.



VOCs oxidation device and oxidation catalyst



Design of High temperature filter system utilizing metal filter elements

# Chemical and Environmental Management Technology



## Technology for nuclear activated carbon performance inspection

- CH<sub>3</sub>I<sup>131</sup> adsorption performance test of impregnated activated carbon according to ASTM D3803
- 2 IPs related to impregnated activated elastic performance testing (technology transfer)
- Acquired KOLAS recognition according to KA Q ISO/IEC 17025
- 20 KOLAS test reports issued

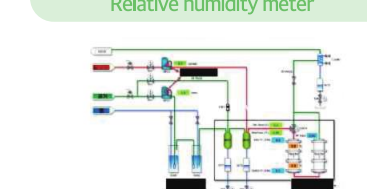
Nuclear grade impregnated activated carbon performance testing equipment



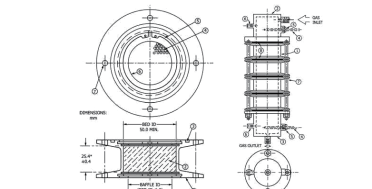
Main unit of the device



Relative humidity meter



Activated carbon performance test P&ID



Test canister

## Public recognition certificate

- Approval for use of KOLAS testing agency certification and ILAC-MRA combination mark for nuclear grade impregnated activated carbon

