The Combustion Research Institute (IRC) belongs to the DIITET, Department of Engineering, Information and Communications Technologies and Energy and Transportation Technologies of the CNR (Italian National Research Council).

The activity of IRC is organized in the framework of six strategic projects:

- **Processes and Technologies for Renewable Energy.** Development and integration of processes and technologies and of their integration for low-cost and low-carbon production of energy and materials from renewable sources.
- **Processes and Technologies for the Valorization of Wastes and Biomasses.** Definition, development and integration of processes and technologies for the valorization of waste and residual biomass aiming to a sustainable nutrient cycle with a focus on energetic issues.
- **Gaseous and Aerosol Pollutants: Formation, Diagnostics and Abatement.** Formation mechanisms of pollutants, new diagnostics for the monitoring of regulated and unregulated pollutants, and systems for pollutant emissions reduction from combustion/gasification sources.
- **Advanced Catalysts and Materials for Sustainable Chemistry and Energy.** Synthesis and development of novel and advanced materials/catalysts for process intensification and/or new alternative processes compared to traditional ones.

**IRC facts:**
29 researchers, 24 technicians and administrative assistants, 7 research fellows, 3 laboratories equipped with pilot and pre-pilot scale facilities, 10 laboratories equipped with lab-scale facilities, 4 advanced diagnostics laboratories, 620 ISI papers and 15 patents in the last decade.