

## Fuel Assemblies & Related Products

### BWR Fuel Assemblies

ATRIUM 10  
ATRIUM 11

### Related Products

Additive Manufacturing  
Advanced Fuel Management (AFM)  
Enriched Reprocessed Uranium  
HARMONI RCCA  
Mixed Oxide Fuel (MOX)

### PWR Fuel Assemblies

AFA3G  
GAIA  
VVER  
HTP  
Shielding Fuel Assemblies

### Enhanced Accident Tolerant Fuel

PROtect — The leading EATF program

### Small Modular Reactors

### Advanced Reactors

Fuel Prototyping

## Fuel Semi-Finished & Related Products

### Zirconium Products

Advanced Cladding and Structural Material  
Zirconium  
Z4B — BQ Fuel Channels Advanced Alloy for High Burnup Operations

### Other Products

Hafnium  
Magnesium Chloride

## Fuel Services

### Characterization, Inspection & Control

Core Components Cutting—DC<sup>3</sup>  
Crud Sampling and Impact Investigation  
ECHO 330  
Fuel Channel Characterization  
Fuel Rod NDE Inspection  
Grid Width Measurement  
In-core Sipping Failed Fuel Detection  
Mast Sipping  
Mobile Box Sipping  
PELICAN  
Post Irradiated FA Inspections  
PWR Individual Fuel Rod NDE Inspection ALFRED  
RCCA Inspection and Characterization  
SABRE  
Single Probe ECHO  
Specialty Fuel Handling Tools for Inspections  
Ultrasonic Fuel Cleaning and Testing  
Ultrasonic Leaking Fuel Detection Systems  
Vacuum-Canister Sipping Leaking Fuel Assembly Detection

## Technology Transfer

Automatic Pellet Inspection System (APIS)  
Heat Treatment

Laser Welding  
Safety Solutions for Fuel Manufacturing: Post-Fukushima Lessons Learned

### Engineering & Design

ATHENA — Neutron Fluence Analysis  
BWR Fuel Engineering Services  
Comprehensive Fuel Engineering Services  
Computational Fluid Dynamics  
Design Studies  
Dose Guard  
Fluence Radiation  
Fuel Integrated Training (FIT)  
Fuel Prototyping and Laboratories  
MELLLA+ Enhanced Option III  
Plant Lifetime Solutions  
Plant Phase Out  
Security of Supply  
Training in Reactor Fuel Handling

### Core Monitoring System

ARGOS  
FIDMS  
Powerplex III  
Powerplex XD

### Codes & Methods

ARCADIA — Comprehensive System for Nuclear Core Design and Safety Analysis  
AREA  
ARITA  
ARTEMIS — Powerful Core Simulator  
Core Thermohydraulic Calculation, Modelling and Safety Analyses  
LADON  
XEDOR — Risk Informed PCI Management Tool

### Handling & Conditioning

AFA Repair  
Assistance in Reactor Fuel Unloading and Reloading  
COLOSS Optimizing Loading and Unloading of Fuel Assemblies  
CICOGNE  
Fuel Rod Anti-Fretting Clips  
Grid Repair by Grinding  
Leaking Fuel Encapsulation  
Optimized Solution Repairing  
Smooth-Walled Dummy Fuel Assembly  
STAR

