

## APPENDICE 2

### **LISTA DEGLI ACRONIMI IN ORDINE PER CATEGORIE**

#### **Applicazioni non elettriche**

BNCT	Boron Neutron Capture Therapy
DEXA	Dual Energy X-ray Absorptiometry
TAC	Tomografia Assiale Computerizzata
PET	Positron Emission Tomography, Tomografia a Emissione di Positroni
FDG	FlouroDeoxyGlucose
RMN	Risonanza Magnetica Nucleare
MOC	Mineralometria Ossea Computerizzata
SPECT	Single Photon Emission Computed Tomography, Tomografia Computerizzata a Emissione Singola di Fotoni
ASI	Agenzia Spaziale Italiana (Italian Space Agency)
NASA	National Aeronautics and Space Administration
NERVA	Nuclear Engine for Rocket Vehicle Application
RTG	Radioisotope Thermoelectric Generators
MAUS	Moltiplicatore Avanzato Ultracompatto Spaziale
SNAP	System for Nuclear Auxiliary Power
RORSAT	Radar-equipped Ocean Reconnaissance SATellite
AMTEC	advanced Alkali Metal Thermal to Electric Converter technology
TRIGA	Training, Research, Isotope production, General Atomic
TDS	Total Dissolved Solids
AVLIS	Atomic Vapor Laser Isotope Separation
LEU	Low Enriched Uranium (uranio leggermente arricchito)
HEU	Highly Enriched Uranium (uranio altamente arricchito)
START I e II	STrategic Arms Reduction Treaty I e II
SSBN	Ship Submersible Ballistic Nuclear
SSN	Submersible Ship Nuclear
CAMEN	Centro per l'Applicazione Militare dell'Energia Nucleare
CISAM	Centro Interforze Studi e Applicazioni Militari

TNP	Trattato di Non Proliferazione
NPT	Non Proliferation Treaty

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## GEN-I e GEN-II

ALARA	As Low As Reasonably Achievable
ASN	Autorità di Sicurezza Nucleare
TSO	Technical Support Organisation
SIP	Shelter Implementation Plan
BERS	Banca Europea per la Ricostruzione e lo Sviluppo
NSA	Nuclear Safety Account (UE)
DBA	Design Basis Accident
LOCA	Loss Of Coolant Accident
MOX	Mixed OXide fuel
ECCS	Emergency Core Cooling Systems
NSSS	Nuclear Steam Supply System
RPV	Reactor Pressure Vessel
LWR	Light Water Reactor
HWR	Heavy Water Reactor
PWR	Pressurized Water Reactor
BWR	Boiling Water Reactor
BHWR	Boiling Heavy Water Reactor
FBR	Fast Breeder Reactor
LMFBR	Liquid Metal Fast Breeder Reactor
GCR	Gas-Cooled Reactor
AGR	Advanced Gas-cooled Reactor
HTGR	High-Temperature Gas-cooled Reactor
HWGCR	Heavy Water moderated, Gas Cooled Reactor
HWLWR	Heavy Water moderated, boiling Light Water cooled Reactor
LWGR	Light Water cooled Graphite Reactor
PHWR	Pressurized Heavy Water Reactor
AECL	Atomic Energy of Canada Ltd.
CANDU	CANada Deuterium Uranium, PHWR della AECL
PUN	Progetto Unificato Nucleare
SGHWR	Steam Generating Heavy Water Reactor
SCLWR	SuperCritical Light Water Reactor
MSRE	Molten Salt Reactor Experiment da 8 MWth
ARE	Aircraft Reactor Experiment
RBMK	High-Power Boiling Reactor with Pressurized Channels, Progetto Russo
VVER	Water-Cooled Water-Moderated Power Reactor, Progetto Russo
BN	Liquid Metal Fast Reactor, Progetto Russo
PHARE	Poland and Hungary: Assistance for Restructuring their Economies

**GEN-III e GEN-III+**

APWR+	Advanced Pressurized Water Reactor Plus
EPR	European Pressurized Water Reactor
WWER	Water-Cooled Water-Moderated Power Reactor, Progetto Russo
ALWR	Advanced Light Water Reactor
AP600	Advanced Pressurized Water Reactor 600
AP1000	Advanced Pressurized Water Reactor 1000
APR1400	Advanced Power Reactor 1400
KSNP	Korea Standard Nuclear Power Plant
ABWR	Advanced Boiling Water Reactor
SBWR	Simplified Boiling Water Reactor
ESBWR	Economic Simplified Boiling Water Reactor
HC-BWR	High Conversion Boiling Water Reactor
SWR-1000	Siedewasser Reactor-1000
ACR-700	Advanced CANDU Reactor 700
CAREM	Central Argentina de Elementos Modulares
IMR	International Modular Reactor
IRIS	International Reactor Innovative and Secure
SMART	System-Integrated Modular Advanced Reactor
GT-MHR	Gas Turbine-Modular High Temperature Reactor
IFR	Integral Fast Reactor
PBMR	Pebble Bed Modular Reactor
MARS	Multipurpose Advanced Reactor inherently Safe
RIP	Reactor Internal Pump
PLR	Primary-Loop Recirculation pump
RCCV	Reinforced Concrete Containment Vessel
FMCRD	Fine Motion Control Rod Drive
FDA	Final Design Approval
US-NRC	United States Nuclear Regulatory Commission
EUR	European Utility Requirements
URD	Utility Requirements Document
EPRI	US Electric Power Research Institute
ANP	
(Framatome-)	Framatome Advanced Nuclear Power
TEPCO	Tokio Electric Power Company

**GEN-IV**

GIF	Generation IV International Forum
INPRO	INternational PROject on Innovative Nuclear Reactor and Fuel Cycle

INDT	International Near Term Deployment
IFR	Integral Fast Reactor
GFR	Gas-cooled Fast Reactor
LFR	Lead-cooled Fast Reactor
MSR	Molten Salt Reactor
SFR	Sodium-cooled Fast Reactor
SCWR	SuperCritical Water-cooled Reactor
VHTR	Very High-Temperature gas Reactor

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## ADS e Fusione

ADS	Accelerator-Driven Systems
ATW	Accelerator driven Transmutation technology for Waste
LINAC	LINear ACcelerator
TRADE	TRiga Accelerator Driven Experiment
TRASCO	TRAsmutazione SCORie
n-ToF	neutron Time of Flight
MFE	Magnetic Fusion Energy
MCF	Magnetic Confinement Fusion (Fusione a Confinamento Magnetico)
EFDA	European Fusion Development Agreement
ITER	International Thermonuclear Experimental Reactor
IFMIF	International Fusion Material Irradiation Facility
JET	Joint European Torus
FTU	Frascati Tokamak Upgrade
VV	Vacuum Vessel (camera da vuoto)
FW	First Wall (prima parete)
PFC	Plasma Facing Components (componenti affacciati al plasma)
TF	Toroidal Field coils
PF	Poloidal Field coils
CS	Central Solenoid coils (solenoido centrale)
CC	Correction Coils
RF	Radio-Frequenza
CNF	Cold Nuclear Fusion
IFE	Inertial Fusion Energy
ICF	Inertial Confinement Fusion (Fusione a Confinamento Inerziale)
HIF	Heavy Ion Fusion
NIF	National Ignition Facility
Flibe	Molten salt made of F Li Be

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## Rifiuti Radioattivi

VLLW	Very Low Level Waste
LILW-SL	Low and Intermediate Level Waste - Short Lived

LILW-LL	Low and Intermediate Level Waste - Long Lived
HLW	High Level Waste
WIPP	Waste Isolation Pilot Plant
DECON	DECONtamination (smantellamento immediato)
SAFESTOR	SAFE STORAge (smantellamento differito)
ENTOMB	ENTOMBment (incapsulamento)

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## Aziende, Enti e Associazioni

SoGIN	Società Gestione Impianti Nucleari
ENEL	Ente Nazionale per l'Energia Elettrica SpA
EdF	Electricité de France
WANO	World Association of Nuclear Operators
WENRA	Western European Nuclear Regulators Association
APAT	Agenzia per la Protezione dell'Ambiente e per i servizi Tecnici, Agency for Environmental Protection and Technical Services
ANPA	Agenzia Nazionale per la Protezione dell'Ambiente
ITER-Consult	Independent Technical Evaluation and Review Consult
ENEA	Ente per le Nuove tecnologie, l'Energia e l'Ambiente, National Agency for the New Technologies, Energy, and the Environment
CNEN	Comitato Nazionale per l'Energia Nucleare
CNRN	Comitato Nazionale per le Ricerche Nucleari
SENN	Società Elettro Nucleare Nazionale
ENSI	Energia Nucleare Sud Italia
AGIP	Azienda Generale Italiana Petroli
IRI	Istituto per la Ricostruzione Industriale
SIMEA	Società Italiana Meridionale per l'Energia Atomica
TNPG	The Nuclear Power Group Ltd.
SELNI	Società ElettroNucleare Italiana
AMN	Ansaldo Meccanica Nucleare
GETSCO	General Electric Technical Service Company
OPEC	OPERazioni Calde
IPU	Impianto Plutonio
ITREC	Impianto TRattamento Elementi di Combustibile
FN	Fabbricazioni Nucleari
AGN	Aerojet General Nucleonics
LENA	Laboratorio Energia Nucleare Applicata
RB-1,2,3	Reattori sperimentali di Bologna
RC-1	Reattore sperimentale di Casaccia
SM-1	Subcritical Mass
MTR	Materials Test Reactor
CESNEF	CEntro Studi Nucleari Enrico Fermi
MIUR	MIInistero dell'Università e della Ricerca, Italian Ministry for Education, University and Research

INFN	Istituto Nazionale per la Fisica Nucleare, Italian National Institute for Nuclear Physics
INFM	Istituto Nazionale per la Fisica della Materia, Italian National Institute for Matter Physics
CNR	Centro Nazionale Ricerche, Italian National Research Council
ISS	Istituto Superiore di Sanità
CEA	Commissariat à l’Energie Atomique (Francia), French Atomic Energy Commission
KRC	Karlsruhe Research Center (Germania)
CERN	Consiglio Europeo per la Ricerca Nucleare (Svizzera, Francia), Conseil Européen pour la Recherche Nucleaire, European Organization for Nuclear Research
JRC	Joint Research Centre (EU)
SLAC	Stanford Linear Accelerator Center (USA)
UCB	University of California Berkeley (USA)
MIT	Masachussetts Institute of Technology (USA)
LBL	Lawrence Berkeley National Laboratory (USA)
LLNL	Lawrence Livermore National Laboratory (USA)
LANL	Los Alamos National Laboratory (USA)
DOE	Department Of Energy (USA)
NRC	Nuclear Regulatory Commission (USA)
EIA	Energy Information Administration (USA)
NERAC	Nuclear Energy Research Advisory Committee
NTDG	Near Term Deployment Group
GIF	Generation IV International Forum
GRNS	Generation IV Roadmap NERAC Subcommittee
NEA	Nuclear Energy Agency
AIEA	Agenzia Internazionale per l’Energia Atomica
IAEA	International Atomic Energy Agency
IEA	International Energy Agency
ICRP	International Commission on Radiological Protection
ICRU	International Commission on Radiation Units and measurements
INN	Italian Nuclear Network
AIN	Associazione Italiana Nucleare o Italian Nuclear Association
AIRM	Associazione Italiana di Radioprotezione Medica
AIRP	Associazione Italiana di Radioprotezione
ANDIN	Associazione Italiana di Ingegneria Nucleare e Sicurezza Impiantistica
FIEN	Forum Italiano dell’Energia Nucleare
SNI	Società Nucleare Italiana
SIPS	Società Italiana per il Progresso delle Scienze
CIRTEN	Consorzio Interuniversitario per la Ricerca

	Tecnologica Nucleare
ENEN	European Nuclear Education Network
EAES	European Atomic Energy Society
ANS	American Nuclear Society
FORATOM	FORrum ATOMico Europeo
ENS	European Nuclear Society
ENS	YGN Young Generation Network
IYNC	International Youth Nuclear Congress
WNA	World Nuclear Association
WNU	World Nuclear University
WEC	World Energy Council
UIC	Uranium Information Centre
EFN	Environmentalists For Nuclear Energy