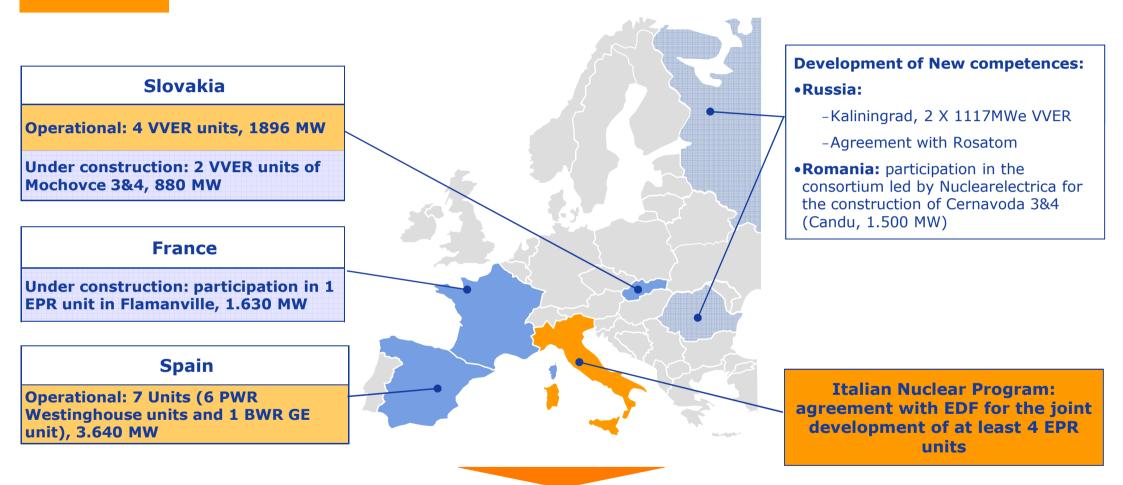


Nuclear Safety Culture Assessment (NSCA)

Questionnaire based approach developed by ENEL AREA **TECNICA NUCL**EARE and WANO PARIS CENTRE

Enel: one of the main European nuclear operators

Nuclear assets, new projects and development opportunities



11 units in operation (5.500 Mwe) Approximately 38 TWh of energy generation Involvement in two of the three NPPs under construction in Europe Further development opportunities in Italy and other countries



Programme for NSCA



Issue questionnaire and analyse results

Feedback workshops Action plan and report issue



Nuclear Safety Culture briefing seminars

Goal of the seminars	Trainers	Trainees	Schedule and Locations			
 To provide with a strong knowledge about WANO principles for Nuclear Safety Culture 	Enel NSO Unit	 Nuclear Safety Seminars are addressed to the whole Area Tecnica Nucleare Team 	dates in the different locations			
 To understand how best in class organizations deal with Nuclear Safety issues 						
 To foster the development of a strong Nuclear Safety Culture within our Organization 						

Nuclear Safety briefing seminars are the starting point of a path we have to set up together to ensure that Nuclear Safety Culture is perceived as a key point for our development and growth as a Nuclear Organization



Questionnaire

40 questions, with 5 possible answers:

- 1 = I do not agree at all
- 2 = Very little agreement
- 3 = Moderately agree
- 4 = I agree, but it is not always the case
- 5 = Strongly agree



Questionnaire Metrics

To each of the **forty questions** there is a **weight** assigned with respect to **one** or **more** of the **eight WANO** Safety Culture **principles**.

Average values are calculated for **each question** using the five possible answer values.

The resulting **matrix of** the **average values and weights** builds up a picture of the organisational **profile** with respect to the **eight WANO safety culture principles**.

Use of an email "drop box" assures anonymity.



Questionnaire weightings

		WANO principle for a strong Nuclear Safety Culture									
		1	2	3	4	5	6	7	8		
Questionnaire		Everyone is personally responsible for nuclear safety	Leaders demonstrate commitment to safety	Trust permeates the organization	Decision-making reflects safety first	Nuclear technology is recognised as special and unique	A questionning attitude is cultivated	Organisational learning is embraced	Nuclear safety undergoes constant examination		
1. My line manager always shows by example that Nuclear Safety is the top priority.			2		1						
2. In my daily work I recognize that I am part of an organization which continuously learns on Safety matters.								2			
3. I demonstrate intolerance to error likely situations.		2					1				
4. I feel free to communicate any problem which could put safety at risk without fear of being blamed by my line manager.				2			1				
5. I have adequate knowledge, training and experience to perform my job.		2									
6. Roles and responsibilities of each individual in my organization are clear and well defined.		2									
7. I would know how to behave safely if visiting a Nuclear Power Plant.	3,9	2				1					
8. Nuclear Safety Culture can be improved if each individual brings his own contribution.	4,7	1						1	2		
9. It is evident from the uniqueness of nuclear technology why safety has the overriding priority in my organization.	4,4				1	2					
10. I always provide feedback about my work experience (positive or negative) which could be helpful for my colleagues.	4,0			1				2	1		



Data

Feedback Workshops and Action Plan issue

Workshops are organised for all ATN staff, with the aim of **analyse** NSCA **results**, highlight **areas for improvement** and make **concrete action proposals**.

ATN management analyse the proposals and issue an Action Plan.

The process is **repeated biannually**



Example of workshops output

Area for improvement 3: **TRAINING**

Everybody is aware that Nuclear Safety is the highest priority and that everybody is personally responsible for safety improvements; However, it is clear that many do not know or do not have the skills to know what to do in practice to contribute during their daily work.



Consolidate continuous training at all levels of the hierarchy and place learning as a fundamental value and characteristic of our area.



Facilitate benchmarking and recycling of operational experience where similar activities are implemented in different company

