



## Special Track Session 10

Physics Committee & IAEA

Tuesday, October 20, 09:45–11:15

### Session Title

**Debate: Towards Green Nuclear Medicine and Theranostics**

### Moderators

**Francesco Giammarile** (Vienna, Austria)

**Floris van Velden** (Leiden, Netherlands)

### Point of view: Green Healthcare Cannot Be Green Everywhere: Regional Realities Must Shape the Transition

**Diana Paez** (Vienna, Austria)

### Point of view: Green Healthcare Must Be Green Everywhere: Nuclear Medicine Must Accelerate Its Sustainability Transition

**Roland Hustinx** (Liège, Belgium)

### Educational Objectives

1. Understand the environmental footprint of nuclear medicine.
2. Explore the tension between green practices and global equity.
3. Identify gaps in current knowledge where further research is needed, such as lifecycle analyses, energy-efficient production, and waste reduction strategies.

### Summary

The growing focus on green healthcare has brought renewed attention to the environmental footprint of nuclear medicine, from radiopharmaceutical production to energy-intensive imaging systems. Efforts to adopt green practices, however, raise complex questions about technological trade-offs, clinical performance, and global equity. While newer equipment may reduce energy use, many regions depend on older systems that remain essential for patient access and diagnostic capacity. By bringing together experts with differing perspectives, the debate session aims to clarify where meaningful improvements are possible and how the field can balance innovation, patient care, and environmental stewardship.

### Key Words

Green Healthcare; Carbon Footprint; Sustainability; Global Equity; Resource Efficiency