

2023 Clean Space Industry Days

Tuesday, October 17, 2023

Ecodesign for Space: ESA's Ecodesign and Sustainability Spotlight (9:30 AM - 11:00 AM)

time	[id] title	presenter
9:30 AM	[143] Opening of the Ecodesign sessions by Dietmar Pilz, ESA Director of Technology, Engineering and Quality	
9:40 AM	[125] ESA's EcoDesign Journey	MORALES SERRANO, Sara
10:10 AM	[8] Building bridges between organizational GHG assessment and environmental footprint at system level: the ESA Green Agenda	GALLICE-TANGUY, Aurélie SALIERI LOPEZ, Marta Caterina
10:30 AM	[21] Environmental Regulations and their Impact on the European Space Sector	Mr JANIK, Premysl

Ecodesign for Space: LCA in Projects Key Takeaways (11:30 AM - 1:00 PM)

time	[id] title	presenter
11:30 AM	[108] "Overview of Life Cycle Assessment and EcoDesign Activities for Large Space Missions at Thales Alenia Space"	GIULIANI, Marco
12:00 PM	[112] Key learnings when applying an iterative LCA approach during the different development phases of a space mission	VERCALSTEREN, An DE SMET, Stefanie
12:30 PM	[145] ESA Space Segment LCA Studies by Airbus DS: Challenges and Insights	VAL, Catarina

Ecodesign for Space: Navigating the ESA LCA Database: A User's Guide (2:00 PM - 3:30 PM)

time	[id] title	presenter
2:00 PM	[127] Introduction to ESA's LCA Database	PADILLA GUTIERREZ, Estefania MORALES SERRANO, Sara
2:30 PM	[105] ESA LCA DB End-User Experience	ROCCO, ELENA Mr GROZEA, Ionut

Ecodesign for Space: Improving Ecodesign Methodologies (4:00 PM - 5:30 PM)

time	[id] title	presenter
4:00 PM	[128] Evaluation of current DQ Methodology	BAGCHUS, Floor
4:20 PM	[33] A Consensus-Based Single-Score for Life Cycle Assessment of Space Missions	VERKAMMEN, Marnix
4:40 PM	[82] Uncertainty in Environmental Life Cycle Assessments of Launch Vehicles	DOMINGUEZ CALABUIG, Guillermo Joaquin
5:00 PM	[14] The impact of re-entering satellites on atmospheric chemistry and Earth's climate	SCHUMACHER, Laura

Wednesday, October 18, 2023

Ecodesign for Space: Exploring Environmental Hotspot Allocation: An Interactive Session (9:30 AM - 11:00 AM)

-Conveners: Maarten Cauwe; Sara Morales Serrano; Estefania Padilla Gutierrez

Ecodesign for Space: Tools and Strategies for ecodesign in space (11:30 AM - 1:00 PM)

time	[id] title	presenter
11:30 AM	[16] The Ecobox project - developing a toolbox for Ecodesign	BOUILLY, Ariane CAU, Perrine
11:45 AM	[118] Ecodesign criteria for R&T and technology assessment in Airbus Defence and Space	BRIGANTI, Luca
12:00 PM	[147] SEEDS tool, a Simplified Ecodesign Evaluation for new Development in Space	CAU, Perrine
12:30 PM	[17] Rapid Life Cycle Assessment Software for Future Space Systems' Design - The Assessment and Comparison Tool	Mr UDRIOT, Mathieu

Ecodesign for Space: Green propellants (3:00 PM - 4:30 PM)

time	[id] title	presenter
3:00 PM	[129] Single Score Methodology for Space LCA	BLONDEL, Lily
3:20 PM	[6] Comparative life cycle sustainability assessment of novel monopropellant systems.	DEROO, Pepijn
3:40 PM	[100] Water Propulsion – The Ultimate Green Technology	Mr WURDAK, Malte
4:00 PM	[11] Laser beam melting for the manufacturing of rocket engine parts: a study of the environmental impacts	ROZENBERG, Laurence JULLIENNE, Mathilde BOUCHERIT, Noémie

Ecodesign for Space: Launchers (5:00 PM - 6:00 PM)

time	[id] title	presenter
5:00 PM	[72] Ariane 6 & P120C Process improvements contribution to a more sustainable European Launcher manufacturing	WAGNER, Nicoletta
5:20 PM	[13] Comparison of the Environmental Impact of Production and Launch Emissions of Different Common Launcher Architectures and Propellants	FISCHER, Jan-Steffen
5:40 PM	[122] MaiaSpace's update on the implementation of LCA and ecodesign in the development of a semi-reusable minilauncher	MIRAUX, Loïs

Ecodesign for Space: Ecodesign Sessions Wrap-up (6:00 PM - 6:30 PM)

Thursday, October 19, 2023

Ecodesign for Space: Space Life Cycle Perception Board Game (9:30 AM - 11:00 AM)

time	[id] title	presenter
9:30 AM	[136] Space LCP Board Game	