

2023 Clean Space Industry Days

Tuesday, 17 October 2023

Ecodesign for Space: ESA's Ecodesign and Sustainability Spotlight (09:30 - 11:00)

| time | [id] title | presenter |
|-------|--|---|
| 09:30 | [143] Opening of the Ecodesign sessions by Dietmar Pilz, ESA Director of Technology, Engineering and Quality | |
| 09:40 | [125] ESA's EcoDesign Journey | MORALES SERRANO, Sara |
| 10:10 | [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 | [21] Environmental Regulations and their Impact on the European Space Sector | Mr JANIK, Premysl |

Ecodesign for Space: LCA in Projects Key Takeaways (11:30 - 13:00)

| time | [id] title | presenter |
|-------|--|---------------------------------------|
| 11:30 | [108] "Overview of Life Cycle Assessment and EcoDesign Activities for Large Space Missions at Thales Alenia Space" | GIULIANI, Marco |
| 12:00 | [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 | [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 (14:00 - 15:30)

| time | [id] title | presenter |
|-------|--|---|
| 14:00 | [127] Introduction to ESA's LCA Database | PADILLA GUTIERREZ, Estefania MORALES SERRANO, Sara |
| 14:30 | [105] ESA LCA DB End-User Experience | ROCCO, ELENA Mr GROZEA, Ionut |

Ecodesign for Space: Improving Ecodesign Methodologies (16:00 - 17:30)

| time | [id] title | presenter |
|-------|--|---------------------------------------|
| 16:00 | [128] Evaluation of current DQ Methodology | BAGCHUS, Floor |
| 16:20 | [33] A Consensus-Based Single-Score for Life Cycle Assessment of Space Missions | VERKAMMEN, Marnix |
| 16:40 | [82] Uncertainty in Environmental Life Cycle Assessments of Launch Vehicles | DOMINGUEZ CALABUIG, Guillermo Joaquin |
| 17:00 | [14] The impact of re-entering satellites on atmospheric chemistry and Earth's climate | SCHUMACHER, Laura |

Wednesday, 18 October 2023

Ecodesign for Space: Exploring Environmental Hotspot Allocation: An Interactive Session (09:30 - 11:00)

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

Ecodesign for Space: Tools and Strategies for ecodesign in space (11:30 - 13:00)

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

Ecodesign for Space: Green propellants (15:00 - 16:30)

| time | [id] title | presenter |
|-------|--|---|
| 15:00 | [129] Single Score Methodology for Space LCA | BLONDEL, Lily |
| 15:20 | [6] Comparative life cycle sustainability assessment of novel monopropellant systems. | DEROO, Pepijn |
| 15:40 | [100] Water Propulsion – The Ultimate Green Technology | Mr WURDAK, Malte |
| 16:00 | [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 (17:00 - 18:00)

| time | [id] title | presenter |
|-------|---|----------------------|
| 17:00 | [72] Ariane 6 & P120C Process improvements contribution to a more sustainable European Launcher manufacturing | WAGNER, Nicoletta |
| 17:20 | [13] Comparison of the Environmental Impact of Production and Launch Emissions of Different Common Launcher Architectures and Propellants | FISCHER, Jan-Steffen |
| 17:40 | [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 (18:00 - 18:30)

Thursday, 19 October 2023

Ecodesign for Space: Space Life Cycle Perception Board Game (09:30 - 11:00)

| time | [id] | title | presenter |
|-------|-------|----------------------|-----------|
| 09:30 | [136] | Space LCP Board Game | |