

Content

Introduction

Joerg Woidasky, Christian Klink (Pforzheim University) 3

Aircraft Recycling in Europe – State and Perspectives

Derk Jan van Heerden (AELS, Zoetermeer and AFRA, USA) 6

Composites and alloys from aircraft components – Constraints and options for closing the loop

Dr. Alexander Janz (Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Bonn, D) 7

Converting CFRP Waste Into High Quality Reusable Carbon Fibre

Marco Gehr (ELG Carbon Fibre, Coseley, UK) 8

Aeronautics CFRP Recycling Priorities

Bertrand Florentz (Hutchinson Aerospace&Industry, F) 14

Sustainability assessment of the CFRP recycling industry – example of the SEARRCH project

Dr. Anne-Laure Cadène (Altran Research, F) 22

Environmental assessment of the EoL phase of the B2 Demonstrators “Low weight green metallic fuselage panels” including dismantling and recycling

Dr. Sixto Arnaiz (Gaiker, Zamudio, ES) 34

Recycling of key materials of Airplane engines – closed loop approach

Nicolas Combes (Umicore CSM, Olen, B) 53

A Closed Loop Recycling Technology for γ -TiAl from Precision Cast Low Pressure Turbine Blades

Janik Brenk, Prof. Bernd Friedrich (RWTH Aachen, D) 65

Aluminium and Recycling: keeping value into the loop

Olivier Néel (Constellium, Voreppe, F) 74

Eco Design Transverse Action in Clean Sky 2

Paolo Trinchieri (CS Program Manager, B) Rainer Schweppe (Chair Eco TA Committee and Fraunhofer ICT, Pfinztal, D) 75