



Clean Sky Joint Undertaking

Call SP1-JTI-CS-2010-01

European Commission
Research Directorates



Identification	ITD - AREA - TOPIC	topics	VALUE	MAX FUND
JTI-CS-ECO	Clean Sky - EcoDesign	2	1.046.000	784.500
JTI-CS-ECO-01	Area-01 - EDA (Eco-Design for Airframe)		400.000	
JTI-CS-2010-1-ECO-01-003	Development of Chromium free dense and thin micro-arc coatings for corrosion protection of light alloys (Al and Mg)		400.000	
JTI-CS-ECO-02	Area-02 - EDS (Eco-Design for Systems)		646.000	
JTI-CS-2010-1-ECO-02-004	Electrical test bench drive systems: mechanical interfaces		646.000	
JTI-CS-GRA	Clean Sky - Green Regional Aircraft	12	2.025.000	1.518.750
JTI-CS-GRA-01	Area-01 - Low weight configurations		1.075.000	
JTI-CS-2010-1-GRA-01-026	Reliability Oriented Optimisation of Structural Replacement Strategies		150.000	
JTI-CS-2010-1-GRA-01-027	Design and manufacturing of smart composite panels for wing applications and development of structural health monitoring techniques		120.000	
JTI-CS-2010-1-GRA-01-028	Nano Modification of CFRP Resin		80.000	
JTI-CS-2010-1-GRA-01-029	Definition of requirements and tests of practicability		75.000	
JTI-CS-2010-1-GRA-01-030	Advanced Lightning tests on a few material types for aviation		150.000	
JTI-CS-2010-1-GRA-01-031	Functional laminates development. Components compatibility and feasibility assessment. Industrialization		200.000	
JTI-CS-2010-1-GRA-01-032	Resin, Laminate and Industrial Nanoparticles Concept and Application. Industrialization		180.000	
JTI-CS-2010-1-GRA-01-033	Trade-off study for the ranking of new technologies best fitting wing		120.000	
JTI-CS-GRA-02	Area-02 - Low noise configurations		800.000	
JTI-CS-2010-1-GRA-02-007	Wing/pylon/nacelle/HLD for advanced regional TF A/C configuration by multidisciplinary design with aero-elastic constrains		450.000	
JTI-CS-2010-1-GRA-02-008	Efficient CFD multiphysics programming research		150.000	
JTI-CS-2010-1-GRA-02-009	Adaptive wing structure concept for load matching		200.000	
JTI-CS-GRA-03	Area-03 - All electric aircraft			
JTI-CS-GRA-04	Area-04 - Mission and trajectory Management		150.000	
JTI-CS-2010-1-GRA-04-002	ATM operational requirements (collection of information regarding ATM operational requirements, available regulation, safety requirements and future expected features)		150.000	
JTI-CS-GRA-05	Area-05 - New configurations			
JTI-CS-GRC	Clean Sky - Green Rotorcraft	4	4.844.000	3.633.000
JTI-CS-GRC-01	Area-01 - Innovative Rotor Blades		400.000	
JTI-CS-2010-1-GRC-01-004	Performance/benefit assessment of advanced rotor configurations including active and passive blades		400.000	
JTI-CS-GRC-02	Area-02 - Reduced Drag of rotorcraft		1.725.000	
JTI-CS-2010-1-GRC-02-004	Contribution to design optimisation of tiltrotor for drag (fuselage/wing junction, nose, landing gear, empennage)		898.000	
JTI-CS-2010-1-GRC-02-005	Contribution to the aerodynamic design optimisation of a helicopter fuselage including its rotating rotor head.		827.000	
JTI-CS-GRC-03	Area-03 - Integration of innovative electrical systems			
JTI-CS-GRC-04	Area-04 - Installation of diesel engines on light helicopters		497.000	
JTI-CS-2010-1-GRC-04-002	Participation to the definition of optimal helicopter architecture for Diesel engine		497.000	
JTI-CS-GRC-05	Area-05 - Environmentally friendly flight paths			
JTI-CS-SAGE	Clean Sky - Sustainable and Green Engines	1	1.000.000	750.000
JTI-CS-SAGE-01	Area-01 - Geared Open Rotor			
JTI-CS-SAGE-02	Area-02 - Direct Drive Open Rotor			
JTI-CS-SAGE-03	Area-03 - Large 3-shaft turbofan			
JTI-CS-2010-1-SAGE-03-001	Fan annulus filler development		1.000.000	
JTI-CS-SAGE-04	Area-04 - Geared Turbofan			
JTI-CS-SAGE-05	Area-05 - Turboshift			
JTI-CS-SFWA	Clean Sky - Smart Fixed Wing Aircraft	18	6.350.000	4.762.500
JTI-CS-SFWA-01	Area01 - Smart Wing Technology		5.850.000	
JTI-CS-2010-1-SFWA-01-004	Support of icing-tests (runback-ice behaviour of surfaces) and icing mechanisms		230.000	
JTI-CS-2010-1-SFWA-01-005	Support of development of riblet-application device		260.000	
JTI-CS-2010-1-SFWA-01-006	Concept for automated riblet-application (robot-concept)		260.000	
JTI-CS-2010-1-SFWA-01-007	In field surface inspection tool (for bonded repair)		150.000	
JTI-CS-2010-1-SFWA-01-008	Construction and assembly of a prototype surface pre-treatment tool for in-field use		150.000	
JTI-CS-2010-1-SFWA-01-009	Prototype of curing tool		150.000	
JTI-CS-2010-1-SFWA-01-010	Phased array ultrasound and NDT measurements		150.000	
JTI-CS-2010-1-SFWA-01-011	Prefabricated CFRP Parts		150.000	
JTI-CS-2010-1-SFWA-01-012	Concept study: Cleaning device for wing leading edge		40.000	
JTI-CS-2010-1-SFWA-01-013	Active Flow Control (AFC) techniques on trailing edge shroud for improved high lift configurations - design, manufacture and tests		460.000	
JTI-CS-2010-1-SFWA-01-014	Manufacturing of the test set up for gust load alleviation in the Onera S3Ch WT facility		400.000	
JTI-CS-2010-1-SFWA-01-015	Development and test of a fluidic actuator prototype (MEMS type) on aircraft level		190.000	
JTI-CS-2010-1-SFWA-01-016	Ultra low power autonomous wireless strain gauge data acquisition unit		800.000	
JTI-CS-2010-1-SFWA-01-017	Fluidic sensor for separation detection in flight - development, design, C&M, and tests		610.000	
JTI-CS-2010-1-SFWA-01-018	Development and test of subsystem of active flow control actuator based on pneumatic principles		290.000	
JTI-CS-2010-1-SFWA-01-019	Flow Control Actuator System development, manufacture and demonstration for high lift		620.000	
JTI-CS-2010-1-SFWA-01-020	Structural designs and tests for integration of active flow control concepts on trailing edge high lift device		940.000	
JTI-CS-SFWA-02	Area02 - New Configuration		500.000	
JTI-CS-2010-1-SFWA-02-006	Design and manufacture of a ground-based structural/systems demonstrator		500.000	
JTI-CS-SFWA-03	Area03 - Flight Demonstrators			
JTI-CS-SGO	Clean Sky - Systems for Green Operations	8	3.545.000	2.658.750
JTI-CS-SGO-01	Area-01 - Definition of Aircraft Solutions and exploitation strategies			
JTI-CS-SGO-02	Area-02 - Management of Aircraft Energy		3.245.000	
JTI-CS-2010-1-SGO-02-012	Saber Electrical Benchmark		200.000	
JTI-CS-2010-1-SGO-02-013	Test Bench for global cooling solutions validation		500.000	
JTI-CS-2010-1-SGO-02-014	Construction of evaluation Power Modules (10) to a given design		175.000	
JTI-CS-2010-1-SGO-02-015	Current return simulation (methodology & tool)		300.000	
JTI-CS-2010-1-SGO-02-016	Thermal exchange modeling and power optimization		500.000	
JTI-CS-2010-1-SGO-02-017	Integration study of Electro-thermal and Electro-mechanical Ice Protection devices in an A320 slat.		370.000	
JTI-CS-2010-1-SGO-02-018	Design, manufacturing, integration and validation of AFD function		1.200.000	
JTI-CS-SGO-03	Area-03 - Management of Trajectory and Mission		300.000	
JTI-CS-2010-1-SGO-03-007	Parametric optimisation techniques for on-board trajectory shaping under constraints		300.000	
JTI-CS-SGO-04	Area-04 - Aircraft Demonstrators			
JTI-CS-SGO-05	Area-05 - Aircraft-level assessment and exploitation			
JTI-CS-TEV	Clean Sky - Technology Evaluator	0		
		topics	VALUE	FUND
		45	18.810.000	14.107.500