

Cleansky Call for Proposals 2012-1

SP1-JTI-CS-2012-01

Deadline : 3 Avril 2012
Liste des Topics ouverts

Eco Design		Topic Value *
JTI-CS-2012-01-ECO-01-041	Autoclave Cycle optimisation	100.000
JTI-CS-2012-01-ECO-01-042	Technology Development for CFRP Recovery/ Recycling	150.000
JTI-CS-2012-01-ECO-01-043	Process Investigations for Liquid Resin Impregnation (LRI) and Out-of-autoclave (OoA) curing of composites for high temperature applications	500.000
JTI-CS-2012-01-ECO-01-044	Methodology toolbox for accelerated fatigue testing of fiber reinforced laminates - micro-structural failure criterion	200.000
JTI-CS-2012-01-ECO-01-045	Process scale up for recovery and recycling of glass-fiber a/c insulation material in pilot scale	220.000
JTI-CS-2012-01-ECO-01-046	End of life aircraft material identification and material ageing characterization by Raman Spectrometry. Proof of concept of Raman-based method for industrial use in recycling industry.	250.000
JTI-CS-2012-01-ECO-01-047	End of life aircraft material identification and thermal damage characterization by Fourier Transform Infra Red. Proof of concept of FT IR-based method for industrial use in recycling industry.	150.000
JTI-CS-2012-01-ECO-01-048	End of life aircraft material identification by Laser-Induced Breakdown Spectroscopy. Proof of concept of LIBS-based method for industrial use in recycling industry.	150.000
JTI-CS-2012-01-ECO-01-049	Direct Manufacturing of stator vanes through electron beam melting	150.000
JTI-CS-2012-01-ECO-01-050	Metal recycling : Recycling routes screening and Design for Environment	280.000
JTI-CS-2012-01-ECO-01-051	Environmental friendly ancillary materials development	160.000
JTI-CS-2012-01-ECO-01-052	Development of a fully automated preforming process for the production of 3-D shaped composite dry fiber profiles by using the energy efficient chemical stitching approach	300.000
JTI-CS-2012-01-ECO-01-053	Disintegration of fibre-reinforced composites by electrodynamic fragmentation technique	435.000
JTI-CS-2012-01-ECO-02-013	Electrical Test Bench Generic Configuration Behavioural Electrical Network Analysis Model	250.000
Green Regional Aircraft		Topic Value *
JTI-CS-2012-01-GRA-01-042	Advanced Floor Grids for Green Regional A/C New Concept of Design, Manufacturing and Installation in Ground Full Scale Demo	2.200.000
JTI-CS-2012-01-GRA-01-043	Development of a Wireless Smart Distributed System for aircraft applications	260.000
JTI-CS-2012-01-GRA-01-044	Microwave assisted curing for carbon fibre reinforced epoxy composites	150.000

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JTI-CS-2012-01-GRA-01-045	Development of advanced Liquid Infusion Technology for Regional Wing panels structure: Numerical simulation of the process and validation through an innovative test bench.	330.000
JTI-CS-2012-01-GRA-01-046	Collapsible tooling proposal for Aircraft nose fuselage & cockpit	300.000
JTI-CS-2012-01-GRA-01-047	Advanced light pressure bulkhead for a/c cockpit	320.000
JTI-CS-2012-01-GRA-01-048	Design V&V of a self sensing Curved composite panel to predict/control damage evolution in real load condition	400.000
JTI-CS-2012-01-GRA-01-049	“Optimal tooling system design for large composite parts”	300.000
JTI-CS-2012-01-GRA-02-019	Advanced, high aspect ratio Transonic Laminar Wing for Regional Aircraft with Load Control & Alleviation devices	4.300.000
JTI-CS-2012-01-GRA-03-009	Advanced Flight Control System – Design, Development and manufacturing of an Electro Mechanical Actuator with associated Electronic Control Unit and dedicated Test Bench.	1.100.000
JTI-CS-2012-01-GRA-03-010	Electrical Power Centre with Control Console for In-Flight Demo	300.000
Green Rotorcraft		Topic Value *
JTI-CS-2012-01-GRC-01-008	Mould design and manufacture for the production of a very high tolerance model helicopter blade	400.000
JTI-CS-2012-01-GRC-03-012	Development and delivery of EMA for a light helicopter	650.000
JTI-CS-2012-01-GRC-06-005	Recycling of Metallic Materials from Rotorcraft Transmissions	200.000
JTI-CS-2012-01-GRC-06-006	Disassembly of eco-designed helicopter demonstrators	200.000
Sustainable and Green Engines		Topic Value *
JTI-CS-2012-01-SAGE-02-011	Pitch Change Mechanism development, test and supply for engine demonstrator	7.000.000
JTI-CS-2012-01-SAGE-02-012	Optimal High Lift Turbine Blade Aero- Mechanical Design	850.000
JTI-CS-2012-01-SAGE-02-013	Advanced Non Destructive Testing methods and equipment development for fabricated structures.	500.000
JTI-CS-2012-01-SAGE-02-014	Enhanced material and lifing model including sustained peak Low Cycle Fatigue	900.000
JTI-CS-2012-01-SAGE-02-015	Advanced electrical machine manufacturing process implementation and tuning based on composite material process technologies	200.000
JTI-CS-2012-01-SAGE-02-016	Study and durability of electrical insulating material in aircraft engine chemical environment	200.000
JTI-CS-2012-01-SAGE-02-017	Variable thickness lamination machine- Start tool design and manufacturing	500.000
JTI-CS-2012-01-SAGE-02-018	SAGE2 Engine Mounting System and Engine In-flight Balancing System	3.000.000
JTI-CS-2012-01-SAGE-03-012	Non-metallic Pipes for Aero engine Dressings	1.800.000
JTI-CS-2012-01-SAGE-03-013	Extended operation temperature range for compressor structure materials	800.000

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JTI-CS-2012-01-SAGE-05-016	Telemetric System Acquisition in harsh Environment	400.000
Smart Fixed Wing Aircraft		Topic Value *
JTI-CS-2012-01-SFWA-01-041	Icephobic Coatings – Development of test methods	350.000
JTI-CS-2012-01-SFWA-01-042	Flow control actuator with fast switching elements; unsteady operation with mass transfer	400.000
JTI-CS-2012-01-SFWA-01-043	Testing the operational performance and robustness of Active Flow Control hardware	400.000
JTI-CS-2012-01-SFWA-01-044	MEMS Gyrometer– Maturity assessment of performance and integration	800.000
JTI-CS-2012-01-SFWA-01-045	MEMS Gyrometer – Miniaturisation of the analogue electronics in an Asic	800.000
JTI-CS-2012-01-SFWA-01-046	MEMS Accelerometer – Miniaturisation of the analogue electronics in an Asic	800.000
JTI-CS-2012-01-SFWA-01-047	High Lift Actuator Electronics	700.000
JTI-CS-2012-01-SFWA-01-048	Magnetic Gearbox	250.000
JTI-CS-2012-01-SFWA-02-020	Development of an automated gap filler device	550.000
JTI-CS-2012-01-SFWA-02-022	Design and manufacturing of an innovative cryogenic wind tunnel model with motorized empennage	1.800.000
JTI-CS-2012-01-SFWA-02-024	Laminar Wing Optimisation using Adjoint Methods	250.000
JTI-CS-2012-01-SFWA-02-025	Development of ice fracture criteria for different ice cases	300.000
JTI-CS-2012-01-SFWA-02-026	Experimental and numerical investigation of Turbulent Boundary Layer (TBL) effects on noise propagation in high speed conditions	750.000
JTI-CS-2012-01-SFWA-02-027	Transonic High Reynolds Number Testing of a Large Laminar Wing Half Model	1.200.000
JTI-CS-2012-01-SFWA-02-028	Low speed aerodynamic test of large CROR aircraft model in a closed test section	2.000.000
Systems for Green Operations		Topic Value *
JTI-CS-2012-01-SGO-02-021	Development of key technology components for high power-density power converters for rotorcraft washplate actuators	350.000
JTI-CS-2012-01-SGO-02-035	Disconnect device for jam tolerant linear actuators	800.000
JTI-CS-2012-01-SGO-02-038	Passive cooling solution validation	300.000
JTI-CS-2012-01-SGO-02-039	Optimisation of heat pipe to cool high speed motorised turbomachine	300.000
JTI-CS-2012-01-SGO-02-040	Compressor air inlet protection for electrical ECS	600.000
JTI-CS-2012-01-SGO-02-041	Identification of a fluid for diphasic cooling adapted to aircraft applications	550.000
JTI-CS-2012-01-SGO-02-042	Development of acarbonsleeve made by filament winding andwounddirectly onanelectric rotor.	200.000
JTI-CS-2012-01-SGO-02-043	Aerospace housing for extreme environment	300.000

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JTI-CS-2012-01-SGO-02-044	Bus system housing for extreme environment	300.000
JTI-CS-2012-01-SGO-02-045	Regenerative Snubber and Innovative control algorithm for high efficient aircraft converter	400.000
JTI-CS-2012-01-SGO-02-046	High Dense Smart Power Capacitor (HDSPC) for next generation Aircraft converters	600.000
JTI-CS-2012-01-SGO-03-014	SOG power electronic with energy recycling system	1.390.000
JTI-CS-2012-01-SGO-03-017	Fast optimiser for continuous descent approaches	200.000
JTI-CS-2012-01-SGO-04-003	Solid State Power Controllers test benches	250.000



Contenu détaillé des Topics :

- <http://ec.europa.eu/research/participants/portal/page/cooperation?callIdentifier=SP1-JTI-CS-2012-01>
- Pour EcoDesign , Green Regional Aircraft, Green Rotorcraft, Sustainable and Green Engines: aller dans « **Information package** » et downloader le document Call Fiche part A
- Pour Smart Fixed Wing Aircraft, Systems for Green Operations : aller dans « **additional documents** » et downloader le document Call Fiche part B

The maximum allowed Topic budget relates to the total scope of work. A Maximum funding is also indicated.

Depending on the nature of the participant, the funding will be between 50% and 75% of the Topic maximum budget indicated. It has to be noted that the Topic budget excludes VAT, as this is not eligible within the frame of Clean Sky.

Recommendation to applicants:

Proposal Submission Forms									
 EUROPEAN COMMISSION <small>7th Framework Programme for Research, Technological Development and Demonstration</small>		Collaborative Project					A3.2: Budget		
Proposal Number		271492			Proposal Acronym		Wingaccs		
Participant number	Organisation short name	Country	Estimated budget (whole duration of the project)					Total receipts	Requested JU contribution
			RTD	Demonstration	Management	Other	TOTAL		
1	Colibrys	CH	564 286	0	35 714	0	600 000	0	450 000
TOTAL			564 286	0	35 714	0	600 000	0	450 000

Make sure this total amount is below the value of the topic!!

Better, keep at least 5% margin.

Final amount is to be discussed in the negotiation

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