

**CALL 11 TOPICS**  
**SP1-JTI-CS-2012-01**  
**publication date: 13 January 2012**

Identification	ITD - AREA - TOPIC	topics	VALUE	MAX FUND
<b>JTI-CS-ECO</b>	<b>Clean Sky - EcoDesign</b>	<b>14</b>	<b>3 295 000</b>	<b>2 471 250</b>
JTI-CS-ECO-01	Area-01 - EDA (Eco-Design for Airframe)		3 045 000	
JTI-CS-2012-1-ECO-01-041	Autoclave cycle optimisation		100 000	
JTI-CS-2012-1-ECO-01-042	Technology Development for CFRP recovery/recycling		150 000	
JTI-CS-2012-1-ECO-01-043	Process Investigations for Liquid Resin Impregnation (LRI) and Out-of-autoclave (OoA) curing of composites		500 000	
JTI-CS-2012-1-ECO-01-044	Methodology Toolbox for Accelerated Fatigue Testing of Fiber Reinforced Laminates		200 000	
JTI-CS-2012-1-ECO-01-045	Process scale up for recovery and recycling of glass-fiber a/c insulation material in pilot scale		220 000	
JTI-CS-2012-1-ECO-01-046	End of life aircraft material identification and material ageing characterization by Raman Spectrometry		250 000	
JTI-CS-2012-1-ECO-01-047	End of life aircraft material identification and thermal damage characterization by Fourier Transform Infra Red		150 000	
JTI-CS-2012-1-ECO-01-048	End of life aircraft material identification by Laser-Induced Breakdown Spectroscopy		150 000	
JTI-CS-2012-1-ECO-01-049	Direct Manufacturing of stator vanes through electron beam melting		150 000	
JTI-CS-2012-1-ECO-01-050	Metal recycling: Recycling routes screening and design for environment		280 000	
JTI-CS-2012-1-ECO-01-051	Environmental friendly ancillary materials development		160 000	
JTI-CS-2012-1-ECO-01-052	Development of a fully automated preforming line for the production of 3-D shaped composite dry fiber profiles		300 000	
JTI-CS-2012-1-ECO-01-053	Disintegration of fibre-reinforced composites by electrodynamic fragmentation technique		435 000	
JTI-CS-ECO-02	Area-02 - EDS (Eco-Design for Systems)		250 000	
JTI-CS-2012-1-ECO-02-013	Electrical Test Bench Generic Configuration Behavioural Electrical Network Analysis Model		250 000	
<b>JTI-CS-GRA</b>	<b>Clean Sky - Green Regional Aircraft</b>	<b>11</b>	<b>9 960 000</b>	<b>7 470 000</b>
JTI-CS-GRA-01	Area-01 - Low weight configurations		4 260 000	
JTI-CS-2012-1-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-2012-1-GRA-01-043	Smart Distributed Sensory Systems		260 000	
JTI-CS-2012-1-GRA-01-044	Design, development and realization of a novel micro-wave based curing device for out-of-autoclave carbon fiber reinforced composite		150 000	
JTI-CS-2012-1-GRA-01-045	Advanced Liquid Infusion Technology for regional wing structure: Numerical simulation and validation through an innovative test bench		330 000	
JTI-CS-2012-1-GRA-01-046	Collapsible Tooling Proposal for a/c nose fuselage & cockpit		300 000	
JTI-CS-2012-1-GRA-01-047	Advanced light pressure bulkhead for a/c cockpit		320 000	
JTI-CS-2012-1-GRA-01-048	Modelling and Simulation of a self sensing Curved composite panel to predict/control damage evolution in real load condition		400 000	
JTI-CS-2012-1-GRA-01-049	Optimal tooling system design for large composite parts		300 000	
JTI-CS-GRA-02	Area-02 - Low noise configurations		4 300 000	
JTI-CS-2012-1-GRA-02-019	Transonic NLF wing and LC&A integrated technologies: Experimental Validation by Innovative WT Tests		4 300 000	
JTI-CS-GRA-03	Area-03 - All electric aircraft		1 400 000	
JTI-CS-2012-1-GRA-03-009	Advanced Flight Control System – Design, development and manufacturing of EMA with associated ECU and dedicated test bench		1 100 000	
JTI-CS-2012-1-GRA-03-010	Control Console and Electrical Power Center per Flight Demo		300 000	
JTI-CS-GRA-04	Area-04 - Mission and trajectory Management			
JTI-CS-GRA-05	Area-05 - New configurations			
<b>JTI-CS-GRC</b>	<b>Clean Sky - Green Rotorcraft</b>	<b>4</b>	<b>1 450 000</b>	<b>1 087 500</b>
JTI-CS-GRC-01	Area-01 - Innovative Rotor Blades		400 000	
JTI-CS-2012-1-GRC-01-008	Mould design and manufacture for the production of a very high tolerance model helicopter blade		400 000	
JTI-CS-GRC-02	Area-02 - Reduced Drag of rotorcraft			
JTI-CS-GRC-03	Area-03 - Integration of innovative electrical systems		650 000	
JTI-CS-2012-1-GRC-03-012	Development and delivery of EMA for a light helicopter		650 000	
JTI-CS-GRC-04	Area-04 - Installation of diesel engines on light helicopters			
JTI-CS-GRC-05	Area-05 - Environmentally friendly flight paths			
JTI-CS-GRC-06	Area-06 - Eco Design for Rotorcraft		400 000	
JTI-CS-2012-1-GRC-06-005	Recycling of Metallic Materials from Rotorcraft Transmissions		200 000	
JTI-CS-2012-1-GRC-06-006	Disassembly of eco-designed helicopter demonstrators		200 000	
<b>JTI-CS-SAGE</b>	<b>Clean Sky - Sustainable and Green Engines</b>	<b>11</b>	<b>16 150 000</b>	<b>12 112 500</b>
JTI-CS-SAGE-01	Area-01 - Open Rotor Demo 1			
JTI-CS-SAGE-02	Area-02 - Open Rotor Demo 2		13 150 000	
JTI-CS-2012-1-SAGE-02-011	Pitch Change Mechanism development, test and supply for engine demonstrator		7 000 000	
JTI-CS-2012-1-SAGE-02-012	Optimal High Lift Turbine Blade Aero-Mechanical Design		850 000	
JTI-CS-2012-1-SAGE-02-013	Advanced Non Destructive Testing methods and equipment development for fabricated structures.		500 000	
JTI-CS-2012-1-SAGE-02-014	Enhanced material and lifing model including sustained peak Low Cycle Fatigue		900 000	
JTI-CS-2012-1-SAGE-02-015	Advanced electrical machine manufacturing process implementation and tuning based on composite material process technologies		200 000	
JTI-CS-2012-1-SAGE-02-016	Study and durability of electrical insulating material in aircraft engine chemical environment		200 000	
JTI-CS-2012-1-SAGE-02-017	Variable thickness lamination machine-tool design and manufacturing		500 000	
JTI-CS-2012-1-SAGE-02-018	Engine Mounting System and Engine In-flight Balancing System		3 000 000	
JTI-CS-SAGE-03	Area-03 - Large 3-shaft turbopan		2 600 000	
JTI-CS-2012-1-SAGE-03-012	Non-metallic Pipes for Aero engine Dressings		1 800 000	
JTI-CS-2012-1-SAGE-03-013	Extended operation temperature range for compressor structure materials		800 000	
JTI-CS-SAGE-04	Area-04 - Geared Turbopan			
JTI-CS-SAGE-05	Area-05 - Turboshaft		400 000	
JTI-CS-2012-1-SAGE-05-016	Telemetric System Acquisition in harsh Environment		400 000	
<b>JTI-CS-SFWA</b>	<b>Clean Sky - Smart Fixed Wing Aircraft</b>	<b>15</b>	<b>11 350 000</b>	<b>8 512 500</b>
JTI-CS-SFWA-01	Area01 – Smart Wing Technology		4 500 000	
JTI-CS-2012-1-SFWA-01-041	Icephobic coatings – development of test methods		350 000	
JTI-CS-2012-1-SFWA-01-042	Flow control actuator with fast switching elements; unsteady operation with mass transfer		400 000	
JTI-CS-2012-1-SFWA-01-043	Testing the operational performance and robustness of Active Flow Control hardware		400 000	
JTI-CS-2012-1-SFWA-01-044	MEMS Gyrometer – Maturity assessment of performance and integration		800 000	
JTI-CS-2012-1-SFWA-01-045	MEMS Gyrometer – Miniaturisation of the analogue electronics in an Asic		800 000	
JTI-CS-2012-1-SFWA-01-046	MEMS Accelerometer – Miniaturisation of the analogue electronics in an Asic		800 000	
JTI-CS-2012-1-SFWA-01-047	High Lift Actuator Electronics		700 000	
JTI-CS-2012-1-SFWA-01-048	Magnetic Gearbox		250 000	
JTI-CS-SFWA-02	Area02 - New Configuration		6 850 000	
JTI-CS-2012-1-SFWA-02-020	Development of an automated gap filler device		550 000	
JTI-CS-2012-1-SFWA-02-022	Design and manufacturing of an innovative cryogenic wind tunnel model with motorized empennage		1 800 000	
JTI-CS-2012-1-SFWA-02-024	Laminar Wing Optimisation using Adjoint Methods		250 000	
JTI-CS-2012-1-SFWA-02-025	Development of ice-fracture criteria for different ice-cases, in an electro-mechanical deicing system application		300 000	
JTI-CS-2012-1-SFWA-02-026	Experimental and numerical investigation of acoustic propagation through a boundary layer in high speed conditions (refraction and scattering)		750 000	
JTI-CS-2012-1-SFWA-02-027	Transonic High Reynolds Number Testing of a Large Laminar Wing Half Model		1 200 000	
JTI-CS-2012-1-SFWA-02-028	Low speed aerodynamic test of large CROR aircraft model in a closed test section		2 000 000	
JTI-CS-SFWA-03	Area03 – Flight Demonstrators			
<b>JTI-CS-SGO</b>	<b>Clean Sky - Systems for Green Operations</b>	<b>14</b>	<b>6 540 000</b>	<b>4 905 000</b>
JTI-CS-SGO-01	Area-01 - Definition of Aircraft Solutions and exploitation strategies			
JTI-CS-SGO-02	Area-02 - Management of Aircraft Energy		4 700 000	
JTI-CS-2012-1-SGO-02-021	Development of key technology components for high power-density power converters for rotorcraft washplate actuator		350 000	
JTI-CS-2012-1-SGO-02-035	Disconnect device for jam tolerant linear actuators		800 000	
JTI-CS-2012-1-SGO-02-038	Passive cooling solution validation		300 000	
JTI-CS-2012-1-SGO-02-039	Optimisation of heat pipe to cool high speed motorised turbo-machine		300 000	
JTI-CS-2012-1-SGO-02-040	Compressor air inlet protection for electrical ECS		600 000	
JTI-CS-2012-1-SGO-02-041	Identification of a fluid for diphasic cooling adapted to aircraft applications		550 000	
JTI-CS-2012-1-SGO-02-042	Study and development of a carbon sleeve made by filament winding and directly wound on an electric motor rotor		200 000	
JTI-CS-2012-1-SGO-02-043	Aerospace housing for extreme environment		300 000	
JTI-CS-2012-1-SGO-02-044	Bus system housing for extreme environment		300 000	
JTI-CS-2012-1-SGO-02-045	Regenerative Snubber & innovative control algorithm		400 000	
JTI-CS-2012-1-SGO-02-046	High Dense Smart Power Capacitor (HDSPC) for next generation Aircraft converters		600 000	
JTI-CS-SGO-03	Area-03 - Management of Trajectory and Mission		1 590 000	
JTI-CS-2012-1-SGO-03-014	Smart Operations on Ground (SOG) power electronics with energy recycling system		1 390 000	
JTI-CS-2012-1-SGO-03-017	Real time optimiser for continuous descent approaches		200 000	
JTI-CS-SGO-04	Area-04 - Aircraft Demonstrators		250 000	
JTI-CS-2012-1-SGO-04-003	Solid State Power Controllers test benches		250 000	
<b>JTI-CS-TEV</b>	<b>Clean Sky - Technology Evaluator</b>	<b>0</b>	<b>0</b>	<b>0,000</b>
		<b>totals (€)</b>	<b>69</b>	<b>48 745 000</b>
				<b>36 558 750</b>