

## ANNEX 1 - Scheme of the STE-EII Implementing Plan: Innovative Action 2010-2012

Type of plants	Status of plants	Legal framework	Support mechanisms	Innovative Concepts
<b>a) In operation or under construction</b>	Projects to be inserted as a new appendix in spare room of <b>existing plants</b> . Innovation could be incorporated in already existing plants.	Authorised plants in Spain (existing plants: 8 operating and 20 under construction). The actual Spanish legislation limits the Plant size to 50MW, when the ideal size will range between 200 to 300MW (bigger plants will highly decrease costs and increase efficiency).	Grants and soft loans.	<p><b>I. Demonstration of innovative components: to demonstrate that the component is reliable and performs as intended for commercial application on STE plants.</b></p> <p><b>II. Demonstration of innovative systems: (i.e.) storage systems, HTF systems, receiving/capturing systems.</b></p>
<b>b) Authorised new plants</b>	Innovation could be incorporated in <b>planned plants</b> (already authorised) which construction will start in 2011 and 2012.	Authorised plants in Spain along the period 2010-2013 (total number of plants: 48, 2007 MW). Plant size limited to 50MW due to the current Spanish legislation.	Grants, soft loans and risk sharing loans/ guarantees.	<p><b>I. Demonstration of innovative components: to demonstrate that the component is reliable and performs as intended for commercial application on STE plants.</b></p> <p><b>II. Demonstration of innovative systems: (i.e.) storage systems, HTF systems, receiving/capturing systems.</b></p>
<b>c) Brand new projects</b>	The promoters could implement <b>any kind of innovative features</b> . New concepts or designs could be tested and demonstrated at a commercial stage.	The permitting process has not started or is incomplete. STE plants could be located in the EU or in MENA countries. Limits to the size of the plants should NOT apply, bigger plants will increase the efficiency and highly decrease costs.	Support mechanisms should be defined on a case by case basis. Risk-sharing mechanism preferred tool.	<p><b>III. Demonstration of innovative configuration of plants: (i.e.) hybridization, combination of hybrid and store, combination of trough and tower, dual electricity-water plant, hybrid cooling, dry cooling.</b></p> <p><b>IV. Demonstration of innovative concepts: (i.e.) direct steam, hot air to gas turbine, dual fuelled Stirling or Brayton Parabolic Dish.</b></p>