

The Ten Percent CSP Contribution to the EU's '20-2020' Objective, the Preliminary Roadmap

(living document)

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Summary

Curbing 20% of Europe's CO₂-emissions by 2020.

This report is a 'living document'; so the details will change. Basically it presents the big picture for a roadmap to curb Europe's CO₂-emissions by 20% in 2020.

The means to this end is producing 10% of the EU's 2020 energy demand by CSP (Concentrated Solar Power). CSP is an all proven technology; the schematics for several types of plants are presented; hundreds (or thousands) of plants will be needed. Until then, step by step all pitfalls will be charted and will (have to) be eliminated.

Europe can define its own energy destiny. The big challenge is 1. to get the conditions right (policy, politics, legalities, financials, organisations) and 2. to get the 10 year price tag down from some 800 billion euros (total) to much less.

The EU's 2020 energy need is presently estimated to become 3900 TWh/year; so 10% is 390 TWh. To meet this demand, some 772 power plants of 1 GW are effectively required.

This roadmap provides the building blocks to walk that road. We will not want to walk alone; Open Coordination and Open Standards are corner

stones to the operation, as are local benefits for the host regions –like the Mediterranean and North-Africa- of the power plants.

“The challenge is not how to save the world most efficiently –just how to save the world.”

Source: In the editor’s ‘A task for terawatts’ of Nature Vol 454, Issue nr 7206, 14 August 2008, pg 805

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Colofon

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Editor B. Verlaan

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In order to give an impression of the contents of the report, the Table of Contents is presented below. *)

Summary	6
1. Introduction	7
2. Roadmap, Time Frame and the Elements: the Making	11
3. Return of Investments (RoI)	18
4. Time Schedule	23
5. Policy & Politics	24
6. Organisation & Human Resources	26
7. Business Consortia & Financial Arrangements	29
8. Cross Border Models & Legalities	35
9. Plant Blueprints & Local Benefits	37
10. Conclusion	39
11. Commitments	41
Appendixes; about details	42
I Standard Solar Plant Components; Top Three Types of...	42
10. Solar Collectors	43
20. Steam Generators	44
30. Solar Super Heaters	44
40. Turbines	45
50. Supplementary Natural Gas Boilers	45
60. Condensers	45
70. Cooling Towers	45
80. Electric Generator and Transformers	45
90. Grid Connections	46
100. Interfaces	46
200. Plumbing	46
II Policy & Politics	48
III Organisation & Human Resources	50
IV Business Consortia & Financial Arrangements	51
V Cross Border Models & Legalities	62
VI Local Benefits	64
Level 1	65
Level 2	66
Level 3	68
Level 4	68
Level 5	69
Level 6?	69
VII Time schedule	75
VIII Sustainable Energies Fact Sheets	83
Introduction	83
Necessity and Urgency	83
Sustainable Energies (Alphabetically)	84
Biofuels	85
Geothermal energy	87
Hydro's Pro and Cons (wave & tide)	87

Liquefied Natural Gas	88
Nuclear Fission Energy	88
Renewable Energies	93
Salinity Power Plants	93
Solar Power	95
Wind	98
==	
X-files	101
e.g. Cold Nuclear Fusion	102
e.g. Thermonuclear Fusion	102
==	
Unsustainable Energies (Alphabetically)	102
Carbon Based	102
==	
Is money a problem?	103
IX Carbon Capture Storage and Air Cleaner Installations	106
Latest news	110
Notes	112

*) By January 2010.