

## **On to the Comments of Prof. Herve Jeanmart and Louis Possoz on our Demand Model**

1. The graph on page 92 MED-CSP and page 36 TRANS-CSP does not correspond to the HE scenario. We have published an internal report describing the demand model at the MED-CSP website. The function and graph the authors of the comments have created in their Fig.4 and 5 looks correct (although the x-axis legend does not include a factor of 1000) but they did not consider two things: first, our scenario was only developed for and used until 2050, second the per capita GDP does not grow beyond 70,000 US\$/cap in our scenario. *Therefore, our model gives reasonable results in the analysed time frame until 2050 but was not meant to and should in no way be used beyond that point.*

2. Contrary to the statement of the comments there is evidence of a de-coupling of GDP and energy demand over time in highly industrialised countries, as shown e.g. in TRANS-CSP on page 36 and the related literature. Our scenario only includes the classical power sector. Strong changes of paradigm like electric vehicles, seawater desalination by electricity or other are not included and must be assessed separately as has been done e.g. by the AQUA-CSP study.

3. A scenario is in no way a prediction, as clearly stated in the MED-CSP report. Therefore, it should be consistent within its scope and assumptions, but it can differ from future reality.

4. The results of the CSP studies would only be affected by an assumed larger demand of electricity – as predicted by Jeanmart and Possoz - in that way that more renewable energy sources would be used until 2050 (the renewable resources are not yet fully exploited in our scenario). This would not contradict our results but increase the importance of renewables. However we believe that measures for increasing efficiency are also important and can lead to the trends indicated in our scenarios.

5. Fig. 7 of the comments paper cannot be reproduced as no frame parameters are given.

6. The studies were not commissioned by TREC as stated in the comments but by BMU.

7. The comments do not deliver evidence that our scenarios (MED-CSP, TRANS-CSP) until 2050 are unrealistic. Our scenarios show a possible convergence of economies and of electricity demand of developing and industrial countries which could be achieved with reasonable economic growth in both regions.

Franz Trieb, Stuttgart, 04.07.2008