EU - FORSCHUNGSPROGRAMME

WISSENSCHAFTLICHER BERICHT

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Energy / Clean Energy	EU-VERTRAGS NR. **ENK5-2001-00536**

PROJEKTTITEL UND AKRONYM
RES2H2: cluster Pilot project for Integration of RES ibto European Sectors using Hydrogen

☐ **ZWISCHENBERICHT**

☒ **SCHLUSSBERICHT**

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Ort und Datum	Unterschrift des Beitragsempfängers

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BEITRAG BBW CHF: 471'000.-
PROJEKTPARTNER: IDS AG

KEYWORDS:

Summary

ABSTRACT

DIESES ABSTRACT DIENT DEM BBW FÜR DIE JÄHRLICHE PUBLIKATION DER LAUFENDEN PROJEKTE. ES KANN IN EINER LANDESSPRACHE ODER IN ENGLISCH ABGEFASST WERDEN. ***DER TEXT SOLLTE NICHT LÄNGER ALS EINE SEITE SEIN UND KEINE BILDER ODER GRAFIKEN ENTHALTEN.***

The planned tasks for the year 04:

- Finishing the electrical cabinet called RES including the controller and the visualisation of the process

- Test the RES with dummy loads in house

- Combined tests with the hydrogen units connected to the RES (Electrolyser, Fuel Cell)

The results:

IDS already complained about the lack of information from the other suppliers in the report 03. Unfortunately this situation hasn't change until today. IDS still don't know how the units will look like which should be connected to the RES. That's why IDS decided to define a minimum interface for every unit which has to be fulfil by each supplier. With this strategy it was possible for IDS to finish the RES.

- The controller is programmed and tested successfully in house
- The visualisation is designed, programmed and tested successfully in house
- The cabinet is finished (as good as it gets) and tested successfully in house

The cabinet is ready for the combined test but before it can be installed in Grand Canaries there is a net filter and a insulation transformer needed. This to points IDS will support as soon IDS get some information about the grid and the wind turbine which has to be connected to the RES.

In the beginning of October there was a meeting in Madrid where IDS also attended. Until this day IDS didn't hear anything about the planned combined test and had to find out that there is whether a electrolyser purchased nor an existing fuel cell. The responsible supplier promised to purchase the necessary parts and the supplier of the wind turbine mentioned that there will be a completely other wind turbine than the one he presented a year before. The European coordinator made it clear that this project will be cancelled if the other suppliers doesn't show more results until the next meeting in march 05. In fact just the RES and the hydrogen storage tank are ready, all other units are missing until this day.

IDS made a big effort to help the suppliers with the interfaces and the integration of their units in the plant during this project. The RES is finish and there is no use for it in the close future. This is frustrating but in the other hand IDS got in contact with the hydrogen industry and got first experience with a future technology. IDS is looking forward and if the plant in Grand Canaries should not be realised in the next year there must be found an other use for the RES.

Conclusion: In case of IDS the project was successful. It's just a pity that not all the partners shared the enthusiasm of IDS.