

Die CAZEE – Energy Engineering

C = Certified
A = Absolute
Z = Zero
E = Emission
E = Engine

Business plan for the most efficient energy use

Innovative technology

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MANAGEMENT SUMMARY

Our ambition is to offer an environment-friendly alternative heat engine (project name CAZEE: Certified Absolute Zero Emission Engine) after two years of development time in 2011 and in 3 years from now an engine for mobile usage. The power engine has the ability to use renewable energy to a higher degree than today, it is independent of weather and improves efficiency of power generation. Exhaust of Carbon oxygen is reduced dramatically and the engine avoids any kind of hazardous waste. Working with natural air to produce Nitrogen. By the means of expansion of compressed fluids, Nitrogen will generate coolness, heat and energy. Through an intelligently developed thermal cycle process this engine can perform in a low range of speeds of 500 cycles / minute and can produce a high torque of 1200 Nm with an effective efficiency of 84 %.

The basic function is described in the European patent no. EP 1529928A1, published on 11 May 2005.

A high market potential is opened to the CAZEE engine in the energy store sector. Due to the flexibility in choice of fuel, besides biomass all common fossil fuels can be used as well. This system of pollution-free technology will be primarily used in commercial energy production plants, air conditioning systems and self-sufficient energy production for the individual end-user in domestic use and in vehicles. *Energy company's' problems of an irregular baseload that occurs when they feed in current generated by wind power plants, state-aided, is already an alternative for the ecologically harmful coal-fired power plants. However as an addition or even substitute for nationwide power plants, we are planing on developing appropriate large aggregates.* The CAZEE system stands absolutely unrivaled on the market, because air conditioning system, heating system and generation of current can be offered cost-efficiently by a system with more than only 100% environment-friendliness.

Due to the broad spectrum of possibilities to store energy, within 2 years after concluding our development our goal is a market penetration of 10%.

Three equal business partners each hold 33,3% of the company's shares . Mr. Herrmann as the inventor has the necessary developer's Know How. Mr. Peter brings his occupational technical understanding as well as commercial management skills. Mr. Malitzki has a lot of industry knowledge, as well as longterm experience in engine development.

The financial requirements for the start investments are 2.500.000 €. Further ongoing costs of 550.000 to 750.000 € per quarter for the next two years must be pre-financed. Break-even is achieved after 10 quarters. The total volume of finance is 2.500.000 €.

The repatriation is planned with 10% for interest and repayment. The number of items of the product/system sales is conservatively estimated in the starting phase. With targeted marketing and public relations a higher turnover can be achieved. The amortization will be obtained in the beginning of 2012. With intensive and firm management we strive to obtain amortization earlier.



1. TANK FÜR FLÜSSIGER N₂ / LUFT
2. VERDAMPER FÜR N₂
3. EXPANSIONSEINHEIT
4. EXPANSIONSVENTILE
5. VERDICHTER
6. ENERGIESPEICHER
7. RECUPERATOR
8. DRUCKSTRÖMER
9. EXPANDEREINHEIT
10. VERDICHUNGSTRÖMER
11. EXPANSIONSMOTOR

