

**EU Workshop  
on  
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**RCS issues related to the EU-PORTAPOWVER DMFC Project**

by

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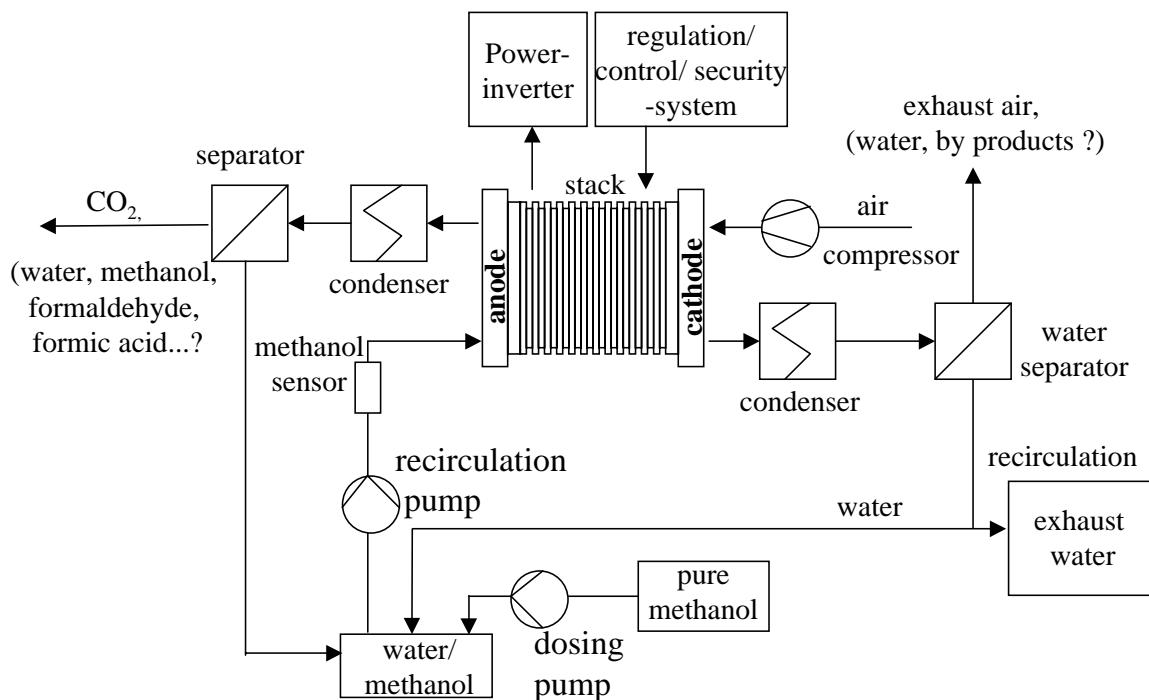
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**1. The PORTAPOWVER portable DMFC EU Project**

**Duration: 3 years, 2003 – 2005**

**Partners : IRD (DK) (coordinator), DLR (D), APC (DK), Uni. Uppsala (S), CNRS (F)**

**Goal: Development of a silent pollution-free 1 kW DMFC portable power generator system for indoor use operating at room temperature and ambient pressure.**



**Schematic of the System**

## **2. RCS issues related to the DMFC Project**

### **o Handling and transport methanol – safety**

**Handling and use of methanol by private persons (presently not allowed)**

**Transport of methanol in airplanes and public transport**

### **O Operation of a DMFC-system - safety**

**Leakage of methanol when the system is operated and during fuel storage exchange**

**Emission of CO<sub>2</sub>, methanol, water and other products (CO, formaldehyde, formic acid...)**

**Consumption of oxygen**

**Recycling of water contaminated with methanol**

### **O Standardization**

**Connectors for the easy exchange of storage containers (interchangeability)**

**Purity of methanol (presently 99.9 %)**

**Odoration of methanol**