

Testing protocol definition

- **Heating, Sealing and Ni reduction** following cell manufacturer recommendations
- **Test start-up**
 - OCV stabilisation at 800°C under H₂ with 3 vol.% H₂O
- **Operation in fuel cell mode** at 800°C to check SRU performance
 - EIS at OCV, j-V curves and EIS = f(j)
- **Operation in Electrolysis Mode at 800°C:**
 - Change of humidity **50 vol.% Hum** (H₂ 10%/N₂ 40%) and stabilisation at OCV,
-EIS at OCV, j-V curves $V \leq 1.5V$, EIS = f(j),
 - Change of humidity **70 vol.% Hum** (H₂ 10%/N₂ 40%) and stabilisation at OCV,
-EIS at OCV, j-V curves $V \leq 1.5V$, EIS = f(j),
 - Change of humidity **90 vol.% Hum** (H₂ 10%/N₂ 40%) and stabilisation at OCV,
-EIS at OCV, j-V curves $V \leq 1.5V$, EIS = f(j),
 - Back to **50 vol.% Hum** to change operation temperature to 750°C
- **Operation in Electrolysis Mode at 750°C**
- **Operation in Electrolysis Mode at 850°C:**
- **Durability test at 800°C** (-1 A/cm² under 90 vol.% Hum/10 vol.% H₂)