



# FIT-4-AMANDA

Future European Fuel Cell Technology: Fit for Automatic Manufacturing and Assembly

**EUROPEAN COMMISSION**

**Horizon 2020 | FCH-01-1-2016 | Manufacturing technologies for PEMFC stack components and stacks**

**GA # 735606**

<b>Deliverable No.</b>	Fit-4-AMandA D3.5	
<b>Deliverable Title</b>	200 MEAs and sets of BPPs manufactured for the assembly of the final stacks	
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<b>Deliverable Type</b>	Demonstrator Report	
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## Publishable Executive Summary

This deliverable reports a summary of the MEAs and BPPs for the new stacks produced by IRD Fuel Cells (IRD). The production of these components followed optimized manufacturing routes and special new designs have been developed for the project.

To demonstrate the good performance of the new design, final test activity focus on stacks that will be automatically manufactured and used for validation purposes and for implementation in the project show-case vehicle.

All materials for the final test activity most notably the assembly of fuel cell stacks have been manufactured. The amount initially agreed upon corresponds to at least 200 BPPs and MEAs. Provided supplies correspond to no less than 250 of each, to meet the actual requirements of this task. It was initially agreed that IRD should develop a method for bonding cathode and anode flow-plates to BPPs. IRD provided the flow-plates whereas the bonding has been performed by Proton Motor.



Figure (left-to-right): MEAs in the new design, casting of BPP and flow-plates ready to ship.

## Acknowledgement

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### Project partners:

#	Partner	Partner Full Name
1	UNR	Uniresearch BV
2	PM	Proton Motor Fuel Cell GmbH
3	IRD	IRD Fuel Cells A/S
4	AU	Aumann Limbach-Oberfrohna GmbH
5	Fhg	Fraunhofer IWU, Institute for Machine tools and Forming technology
6	TUC	Technische Universitaet Chemnitz, ALF, Department of Advanced Powertrains
7	UPS	UPS Europe SA



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