



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	Cost efficient green methanol from biogas,
Company	D-CRBN
Speaker	Pablo Espinar
TRL	TRL 4 - 7
Keywords feedstock (max 2)	biogas
Keywords technology (max 2)	plasma conversion
Keywords End-Product (max 2)	green methanol
Abstract:	
Biogas is routinely upgraded by throwing half of it away: the CO₂ is stripped and vented so that the methane can be injected or burned. D-CRBN converts the whole stream. Our plasma reactors electrify the reforming of raw biogas into syngas: the CO₂ and the methane react together in the plasma, and the hydrogen the route needs is already in the molecule. No electrolyser, no external hydrogen supply, no CO₂ removal step. The syngas is conditioned to methanol ratio and converted downstream into green methanol, closing a route from digester to chemical feedstock and marine fuel in which electricity is the only external input. The units are modular and load-flexible, suited to the distributed scale at which wastewater treatment, agriculture and food processing actually produce biogas. A 200 t/y demonstration converting biogas to syngas at a waste water treatment plant in Flanders is in execution, following pilot operation on steel-mill CO₂ at ArcelorMittal Ghent that we did for CO₂ to CO conversion. We pitch to meet biogas owners, methanol off-takers and technology partners for the first full biogas-to-methanol chains.	