

NMIS

National Manufacturing
Institute Scotland

Manufacturing a net-zero future

NMIS conference for COP26
Introductory briefing pack

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Manufacturing and a net-zero economy

The way that we manufacture needs to change, and in some sectors and companies this is happening, but the climate clock is ticking, and we, the manufacturing community, must step up our commitment and accelerate this activity.

These changes do not necessarily require significant capital investment, but they do need investment in time and effort. Such change also needs to be embedded throughout the entire culture of a company across all levels and systems. Many of these changes, by their very nature, could have a positive effect on the financial operation of an organisation because in many cases it comes down to resource efficiency.

Resource efficiency can be simply described as “doing more with less” – less raw materials, less energy, less waste –elements that will make a positive contribution to operating costs and profit of any manufacturing business. A company on the path to net-zero manufacturing is a company that is leading the way, and one that can also become more financially successful, break into new markets and plan future growth.



NMIS COP26 conference

NMIS, along with our operator the University of Strathclyde, envisage this conference being an example of the art of the possible, and to open the conversation between manufacturers, large and small, from all sectors within the UK. In order to accelerate our positive impact on the climate emergency, we need to share experiences, ideas and best practice.

This event will take place in part of our industrial facility at Westway Park, Renfrew. This location is well placed for transportation links, and is within 10 minutes of Glasgow International Airport, and 20 minutes from the centre of Glasgow. We are taking the opportunity to make use of part of this industrial space before it is fully occupied with equipment and capability supporting our next full-scale industrial research facility.

The conference will offer an additional perspective to the COP26 conversation by featuring the technologies and that will be the crucial elements to manufacturing the solutions being developed in response to climate change, whilst tackling the challenge of helping more traditional industrial processes become more resource efficient.



The aim

Highlight and showcase the crucial role of manufacturing in the drive towards a net-zero economy and give those in the community the opportunity to learn, create connections and be inspired to make a difference within their company, industry and beyond.



Draft plan

NMIS is hosting a two-day conference during the first week of COP26 at its NMIS Boeing facility in Westway Park, Renfrew:

Day 1 – Tuesday 2 November

Tours of NMIS and partner facilities on offer (pre-booking required prior to the event).

Day 2 – Wednesday 3 November

Full day event with academic, industry and public sector keynote speakers morning and afternoon, panel discussions, networking and exhibition and demo area



Target audience

- ▶ Manufacturing firms of all sizes and from all sectors
- ▶ Engineering and technology services companies supporting the manufacturing sector
- ▶ Market disruptors / inventors
- ▶ Global research and technology organisations
- ▶ Funding bodies
- ▶ Government agencies
- ▶ Academic institutions with strong links to manufacturing and engineering
- ▶ Local authorities with a strong interest in manufacturing



Opportunities to get involved

Panel discussions

- ▶ Each panel discussion will have 3-4 speakers with a moderator. The speakers should represent a variety of organisations within the manufacturing and engineering community.
- ▶ Each speaker will have five minutes to deliver a talk on the subject. We're looking for dynamic speakers that can confidently deliver engaging talks without relying on PowerPoint.
- ▶ The talks should be punctuated by powerful imagery and video content as opposed to a typical slideshow.

Exhibition and demo space

- ▶ Flexible range of spaces available at no cost to you.
- ▶ Stand messaging must be in line with the event theme

Delegates

- ▶ Attendance will be FOC to all registered delegates.



Example panel discussion topics

- ▶ Skills: the challenge of building the future workforce for net-zero
- ▶ Design: Casting the longest shadow in manufacturing
- ▶ Remanufacture a new opportunity: recycle, reconfigure, refurbish, repurpose
- ▶ Verification & validation: the challenge of certifying remanufactured products
- ▶ Resource efficient manufacturing: who's doing what, how are they doing it and how can you?



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