

Annex 02

Response Form for:

Market Consultation R2R Perovskite Pilot Line

Reference: WS2731057802

Supplier Contact Details

Please fill your Contact Details here so that TNO, in case needed, can contact you.

| | |
|----------------------|--|
| Name organisation: | |
| Name contact person: | |
| Phone: | |
| E-mail address: | |

Questions from Annex 01:

Please provide your answers or comments per each question below. You are allowed to use your own formats or documents to answer or comment, however please reference these in the relevant cell and column below.

If, for any reason, you do not wish to answer a particular question, please indicate why. If your answer is to be handled confidentially, please also indicate this in your response.

| Subject | Technical feasibility and innovation | | |
|---------|--------------------------------------|---|--|
| | Our Question | Your Answer | |
| 1. | a. | Does your organisation have experience in developing or supplying R2R (roll-to-roll) equipment for flexible perovskite solar cells? Which ones? Please elaborate. | |
| | b. | Can you provide examples of similar projects or prototypes you have completed? | |
| | c. | What technical challenges do you foresee in integrating existing and newly developed components into a single working Pilot Line? Have you addressed these in the past, in terms of time, money, etc. | |
| | d. | What innovations in perovskite crystallisation, contact layers, or laser scribing can you offer? | |

| Subject | | | Specifications and customisation | | |
|----------------|----|--|---|--|--|
| | | Our Question | Your Answer | | |
| 2. | a. | To what extent can you adapt equipment to specific requirements, such as a process speed of 1–10 m/min, and temperatures below 150°C (see also question 6b on sustainability)? | | | |
| | b. | What possibilities do you see for inline characterisation and data integration within the Pilot Line? And what options have you applied in similar setups in the past? | | | |
| | c. | How do you handle the integration of a data management system for real-time monitoring and analysis? | | | |

| Subject | | | Delivery, planning, and collaboration | | |
|----------------|----|--|--|--|--|
| | | Our Question | Your Answer | | |
| 3. | a. | What is your view on planning the purchase or production of the Pilot Line components working towards completion of the full Pilot Line, i.e. lead time of design, construction and release of the relevant individual components? | | | |
| | b. | What flexibility do you have in planning, given the phased purchase and integration of the relevant individual components? | | | |
| | c. | How do you view collaboration with TNO and other partners in the ecosystem, for example in determining the final technical specifications? | | | |

| Subject | | | Costs and pricing structure | | |
|----------------|----|--|------------------------------------|--|--|
| | | Our Question | Your Answer | | |
| 4. | a. | Can you provide a price indication for the various components (such as R2R slot-die upgrade, sputter machine, sALD, laser, characterisation, slitting/binning, data management)? | | | |
| | b. | Based on your experience, which factors will most influence the pricing (customisation, integration, development risks)? | | | |

| Subject | | | Maintenance, service and support | | |
|----------------|----|---|---|--|--|
| | | Our Question | Your Answer | | |
| 5. | a. | What service and maintenance options would you offer after delivery of the equipment? | | | |
| | b. | What is your view on support, troubleshooting and/or implementing upgrades? | | | |
| | c. | Do you have a service location in the Benelux? | | | |

| Subject | | | Sustainability and future-proofing | | |
|----------------|----|---|---|--|--|
| | | Our Question | Your Answer | | |
| 6. | a. | What is your vision on reducing CO2 footprint in the processes in your company? | | | |
| | b. | How does your solution contribute to the sustainability of the Pilot Line and scalability to industrial production? | | | |
| | c. | What possibilities do you see for future upgrades or expansions of the line? | | | |