

Naturally leading the transition

CAN YOUHELP UCC TRANSITION THEIR ROASTERY TO HYDROGEN?

Get the details...



And do you want to earn a **new client** and an **allexpenses paid trip to the World Expo** in Japan while you're at it?

JAPANESE -ERS AN ERM CURRENTLY ROASTTHER COFFEE NATURALGAS

In order to continue to produce their delicious coffee through the **sustainable transition**, UCC wants to transition their roaster to **run on both hydrogen and natural gas**.



STEPONE: AROASTER NATURALGAS

The roaster to be converted can handle batches of **350kg at a time** and consumes over **500,000 m3/year of natural gas** in a primary roaster and an afterburner. The air temperature gets to **340°C in the primary roaster** and **400°C in the afterburner.**



STEP TWO: THE TRANSITION TO HYDROGEN

At first, hydrogen will be used for **testing the technology** and **gaining experience** using hydrogen as a fuel. As the **price of hydrogen becomes competitive** with that of natural gas, a long-term fuel transition will be made.



AN EXTRA CHALLENGE: YOU'LL HAVE TO BE SPEEDY

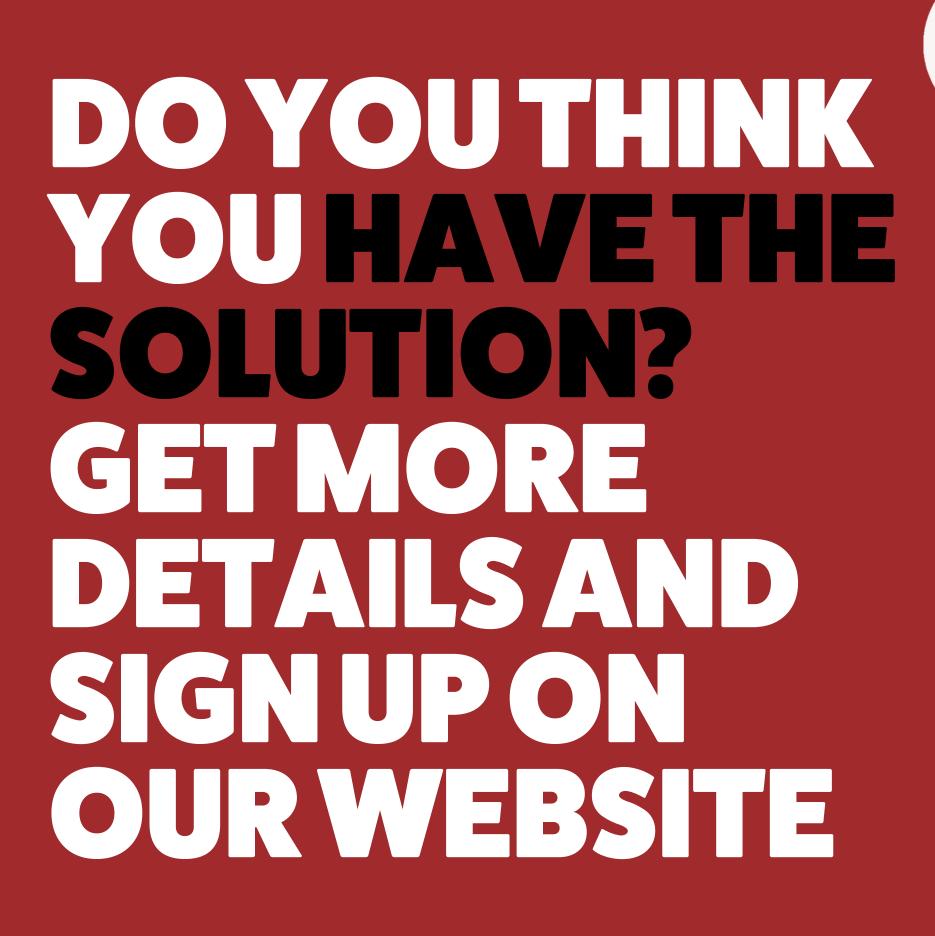
The largest roaster is a very **important link in the current production capacity.** Because of this, part of the challenge is to have as **little loss in production as possible** during the modifications. This requires very **good preparation, preliminary work and preliminary research** to keep the conversion within the regular schedule as much as possible during major maintenance. **The goal is to complete the conversion within 3 days.**



WHAT'S IN IT FOR YOU? A NEW CLIENT AND A WORLD STAGE

The TopDutch Innovation Challenge is bringing together Dutch and Japanese firms as part of the Netherlands' **Road2Osaka** preparations. The party offering the best solution for UCC will **win the tender to carry out the conversion.** In addition, the winner will go together with UCC and NOM to the **World Expo in Osaka, Japan** in September 2025. There, they will present the innovation together.





www.topdutch.com/topdutch-innovation-challenge







OMMON