Developing Agni-Dryer for natural coffee processing

The coffee processor Adena has been operating in Indonesia since 2015 with a vision of connecting farmers with Indonesian coffee markets. In 2019, the Adena team established two processing units in Kenawat and Bener Meriah, Aceh, working with more than 200 household farmers. Another facility location is in Sokoria, Flores, East Nusa Tenggara.

Accelerating natural coffee processing
Natural processed coffee yields a comparatively high market price. On the one hand, this is a good opportunity to increase local processors’ incomes. On the other hand, however, natural processed coffee takes a longer time to process at around one month. It also requires more space to accommodate the larger volumes of coffee cherries.

Moreover, it is challenging to control both the quantity and the quality of natural processed coffee. To overcome these challenges, Adena will develop a mechanical dryer to accelerate the natural coffee process by 20 to 30 per cent.

Economic and ecological mechanical micro dryer
Adena will develop and test the Agni-Dryer, an economic and ecological mechanical micro dryer for improving Indonesian natural coffee production.

The development process consists of three phases: conception and design phase, production phase and function test phase. During the first phase, the rough design, materials and components research and the detailed drawing will be completed. The next step will be to develop the system and drying panel. The team will then conduct tests of the Agni-Dryer in Kenawat (Aceh), organise training for utilisation and document the business model.

Contact: coffeeinnovation@giz.de