

SOLAR DIRECT DRIVE 1.5kW-425V

PV oil press system all-in-one automatic process control

empower
off-grid solutions



Integrated digital
pre-heater control

NEW PV oil press with SDD1.5kW-425V-OE (with PayGo option):

Range: 0,37kW/0,55kW/0,75kW/1,1kW/1,5kW

- MPPT temperature and speed controller for oil press applications with autostart
- GSM modem optional for remote control and Geo location monitoring
- Pay-As-You-Go ready.

The SDD1.5kW-425V-OE is EMPO-NI's **NEW** Solar Direct Drive automatically controlling a complete oil-press system e.g. from the (pre-)heating to the efficient drive of the oil press' gear motor at the Maximum Power Point.

The SDD's Maximum Power Point control optimizes at any time of the operation process the distribution of all available power from the PV-panel array between the (pre-)heater and the gear motor to ensure fastest start-up and best oil pressing results.

The system is remotely controllable through an optional GSM modem and employs various safety and protection functions.

The SDD1.5kW-425V-OE is in an IP54(65) protected outdoor enclosure, passively cooled and provides a temperature sensor interface and PWM control output for the oil press heating element.

Please check EMPO-NI's industrial Drive Kits for more details.



Generate local business and value chains!



Sustainable technology protecting health and environment!



Total cost benefit through optimized 3-phase motors, less PV modules!

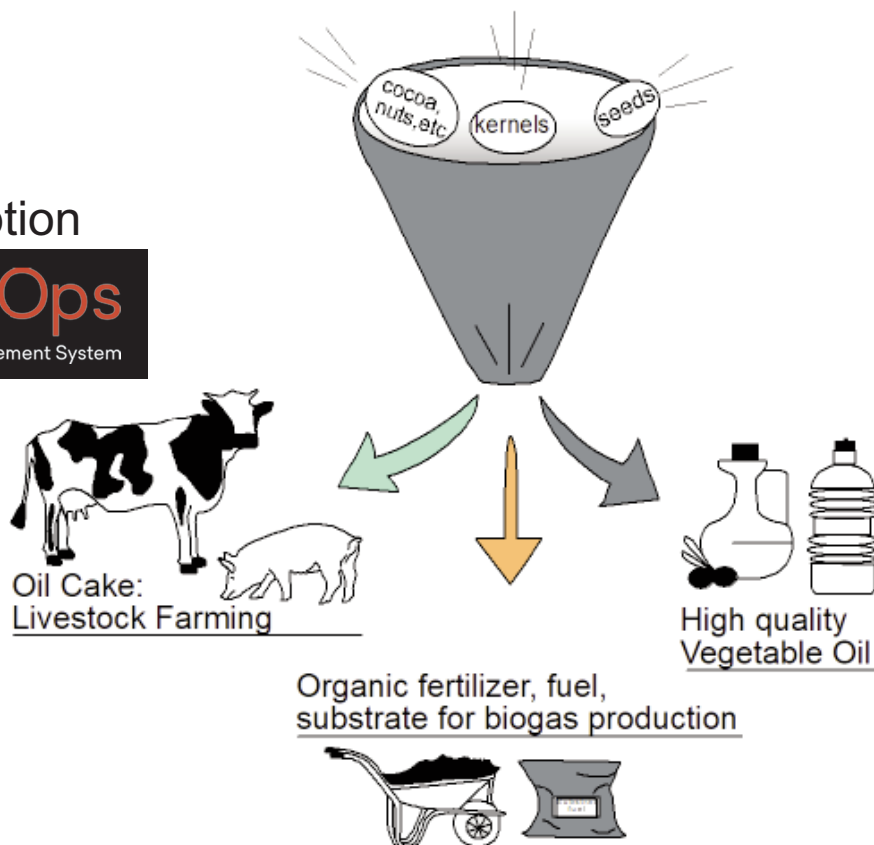
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Pay-As-you-Go enabled low cost oil press systems

Integrated automatic temperature and process control for best and stable pressing results using EMPO-NI's SDD1.5kW-425V-OE family series:

- oil press systems of 0,37kW, 0,55kW, 0,75kW, 1,1kW and 1,5kW.
- requires only 3, 5, 7 or 10 60-cell PV-panels of at least 275Wp to make it run.
- uses high-quality stainless-steel materials and hardened extruder screws for longest lifetime.
- complies with international safety and food processing standards.



Interchangeable nozzles and seamlessly adjustable gap allow easy adaptation and efficient processing of most kernels and seeds like almond, apricot, argan, beechnut, black cumin, black currant, brazil nut, camelina, canola, cashew, cocoa butter, coconut, grape seed, hazelnut, hemp, jatropha, linseed, macadamia nut, mustard seed, peanut, pistachio, poppy seed, pumpkin seed, safflower, sesame, soya, sunflower seed, walnut and many more.

Up to 30kg of seeds and kernels can be processed per hour with the SDD1.5kW-425V-OE and provide up to 35.000 liter per year of high quality vegetable oil along with a protein-rich oil cake providing a healthy nutrition.

- ✓ EMPO-NI offers a wide range of PV-solar oil presses based on the new integrated SDD1.5kW-425V-OE controller.
- ✓ CO2 neutral local production of vegetable oil - no running cost
- ✓ Fast amortisation, often within one year!

EMPO-NI[®], July2022