CT-WW-002 — Irrigation Efficiency & Precision Water

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Description

Technologies for improving agricultural water use efficiency including drip irrigation, precision irrigation scheduling, soil moisture sensing, remote sensing for crop water stress, and water-smart agronomic practices. Covers both large-scale commercial agriculture and smallholder farmer applications.

Colombia Context

Colombia's coffee and cacao growing regions face increasing water stress due to changing precipitation patterns under climate change. UPRA (Unidad de Planificación Rural Agropecuaria) maps agricultural water vulnerability and advises on irrigation planning. The NDC 2030 agropecuario (agricultural) target includes water efficiency improvements. Coffee (Huila, Nariño, Cauca) and cacao (Santander, Arauca) regions are priority areas. FNC (Federación Nacional de Cafeteros) promotes water-efficient coffee processing (beneficio ecológico) reducing water consumption by up to 90% compared to traditional wet milling.

EUDR Relevance

Indirect EUDR relevance: efficient irrigation supports sustainable production of EUDR-regulated crops (coffee, cacao). Water management data from precision irrigation systems can contribute to EUDR due diligence evidence on sustainable production practices.

CTH Data Coverage

CLP coverage through coffee sector field programs that include water management components. CTH data coverage via Origo platform tracks irrigation efficiency data in agricultural contexts. Precision water startups are active REIN Hub candidates, particularly those serving smallholder coffee and cacao farmers.

Green Finance Alignment

TVC covers irrigation efficiency under the Agropecuario sector. CBI Agriculture criteria include water efficiency with measurable improvement targets. EU Taxonomy partial alignment — no dedicated irrigation activity but relevant under water resource protection (Objective 3). The agricultural crossover makes this eligible for both green bonds (water efficiency) and sustainability-linked loans (agricultural productivity improvement).


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