

CT-WW-002 — Irrigation Efficiency & Precision Water

origo_id	CT-WW-002
origo_label	Irrigation Efficiency & Precision Water
sector	WW
source	origo
cpi_aligned	Y — Water/AFOLU crossover
eu_taxonomy_aligned	partial
cbi_eligible	Y
iea_aligned	N
col_gf_sector	Agropecuario
col_gf_activity	Riego eficiente y gestión hídrica de precisión en agricultura
col_gf_aligned	Y
col_ndc2030_aligned	Y
col_sisclima_relevant	Y
col_ley2169	N
latam_colombia	Y
cth_clp_coverage	Y
cth_data_coverage	Y
schema_version	1.1
last_updated	2026-05-27

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).

```
{
  "origo_id": "CT-WW-002",
  "origo_label": "Irrigation Efficiency & Precision Water",
  "sector": "WW",
  "source": "origo",
  "cpi_aligned": "Y – Water/AFOLU crossover",
  "eu_taxonomy_aligned": "partial",
  "cbi_eligible": "Y",
  "iea_aligned": "N",
  "col_gf_sector": "Agropecuario",
  "col_gf_activity": "Riego eficiente y gestión hídrica de precisión en agricultura",
  "col_gf_aligned": "Y",
  "col_ndc2030_aligned": "Y",
  "col_sisclima_relevant": "Y",
  "col_ley2169": "N",
  "latam_colombia": "Y",
  "cth_clp_coverage": "Y",
  "cth_data_coverage": "Y",
  "schema_version": "1.1",
  "last_updated": "2026-05-27"
}
```

Revisión #1

Creado 2026-05-27 05:08:51 UTC por Gideon Blaauw

Actualizado 2026-05-27 05:08:51 UTC por Gideon Blaauw