
The FAO-UNECE-UNEP SDG Fund Renewable Energy Ukraine Project

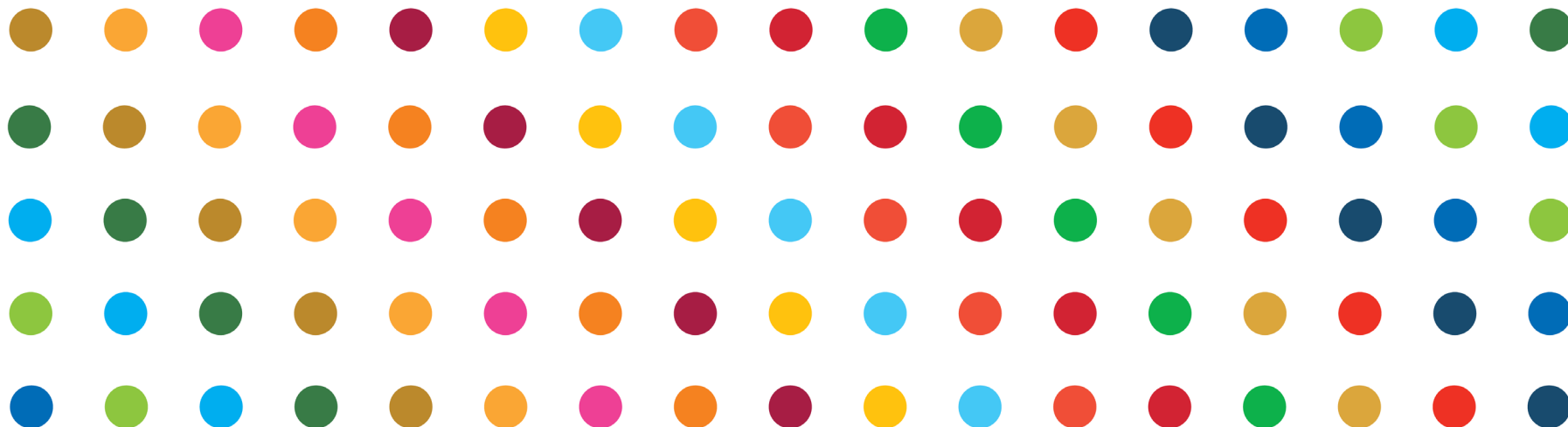
+ A Vision for a Renewable Energy Future in the Agri-
Food Sector of Ukraine



UNITED NATIONS
UKRAINE



Food and Agriculture
Organization of the
United Nations



OUR PROJECT:



JOINT SDG FUND

WHO?

FAO, UNEP, UNECE conducted a comprehensive analysis addressing a request from the **Ministry of Agrarian Policy and Food (MAPF)** in 2022 to investigate the bioenergy potential of Ukraine

WHAT?

The **global energy crisis exacerbated by the war Ukraine** demands decisive action; Ukraine's untapped potential could resolve many energy issues without affecting food production

HOW?

Assessment of biofuel potential w/o compromising food or environment
Development of scenarios
Recommendations for Ministries/stakeholders



Components Assessed:

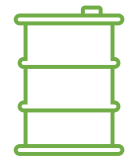
End Goals Assessed For:



Eliminate imported fuels and gas

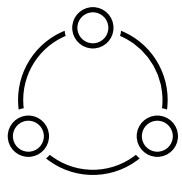


Food continuity

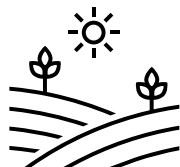


biogas for export

Methodology and Results



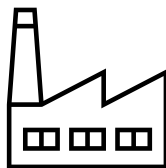
assessment of the untapped potential of biomass and agricultural waste



Final report on websites of FAO, UNEP, UNECE and UABIO



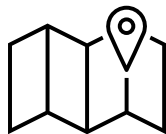
Study of production potential and feedstock for **biomethane, biodiesel and bioethanol**



Cases reports as **business models** that include CAPEX, OPEX, payback

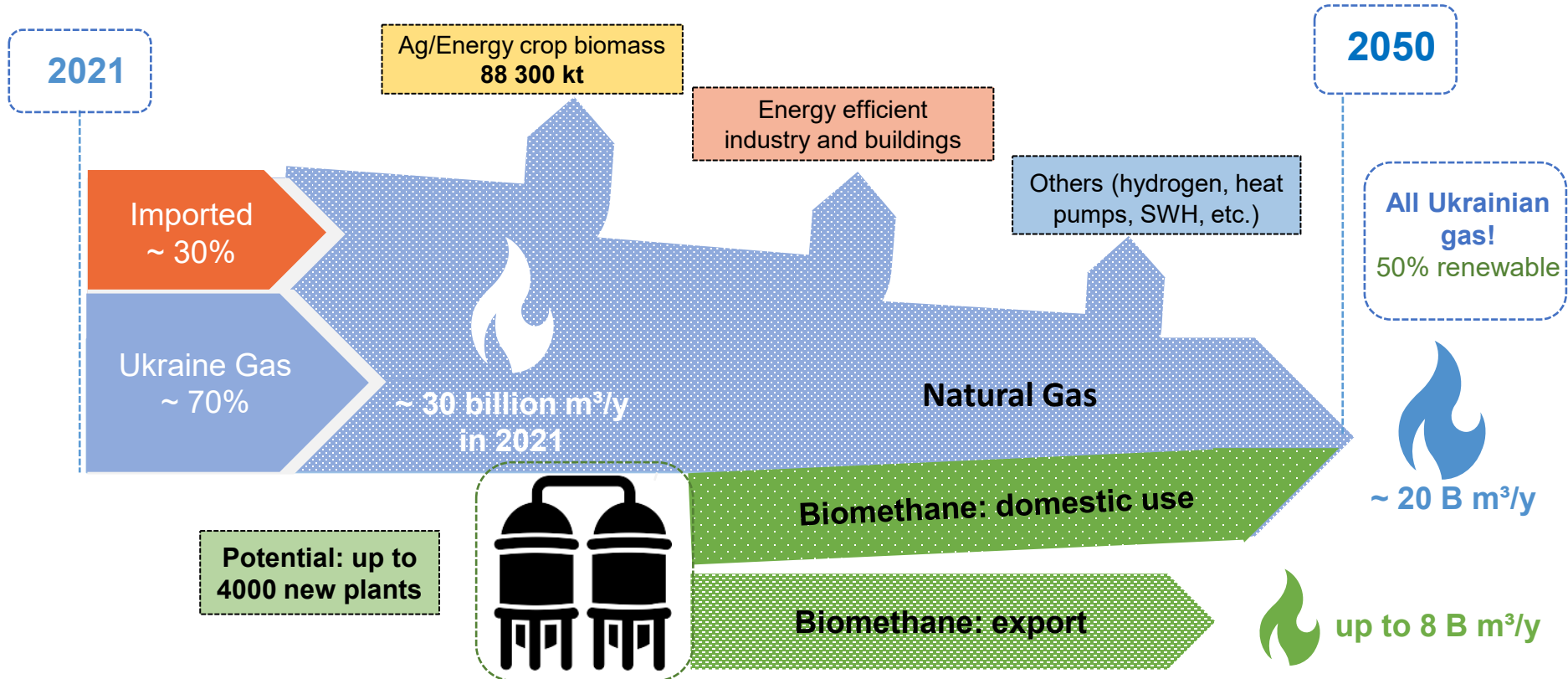


multi-stakeholder dialogue with market participants



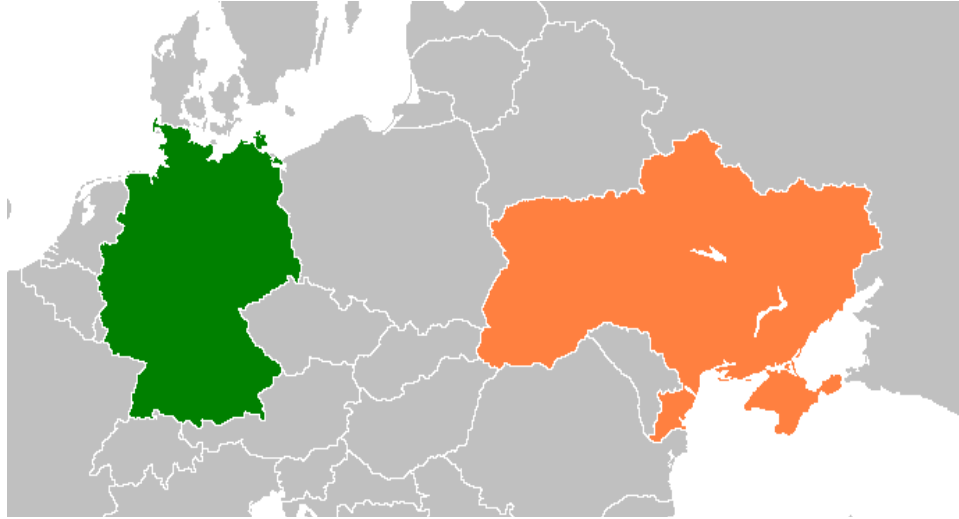
Draft laws for bioenergy sector and **investment roadmap** for investors

Proposed Scenario for Natural Gas Replacement by 2050*



Ukraine's HUGE Potential for Energy from Agri-food Waste

9500 plants
= 5000 MW



51 plants =
100 MW+



Up to 8 billion m³
for export per year



up to 1500-2000 MW
for domestic use



Biogas plants are capable of producing a strategically important resource – «green» biomethane and electricity, especially maneuverable or peak.



Food and Agriculture Organization
of the United Nations

FAO Ukraine: Ongoing and Hopeful Renewable Energy Work



Bioenergy Can Potentially Remediate Contaminated Lands



The use of biomass to remediate contaminated lands is an alternative sustainable and renewable source of energy and is among the FAO priorities to support agriculture and forestry in the country



UKRAINE

Energy For Food (E4F): New Joint Project (hoped!)



Four Components:

- Policy
- Research
- Investments & Communication
- Procurement & Training

Place-scale **biogas, solar and wind plants** for the agriculture sector



UKRAINE

Energy For Food: New Joint Project (hoped!)



Small/medium biomass waste digesters for agri-food industries

Bioenergy on land not suitable for food crops



Energy efficient grain dryers and solid biomass heat generators (including energy crops)



**Thank You from
Ukraine**

