



Netherlands Enterprise Agency

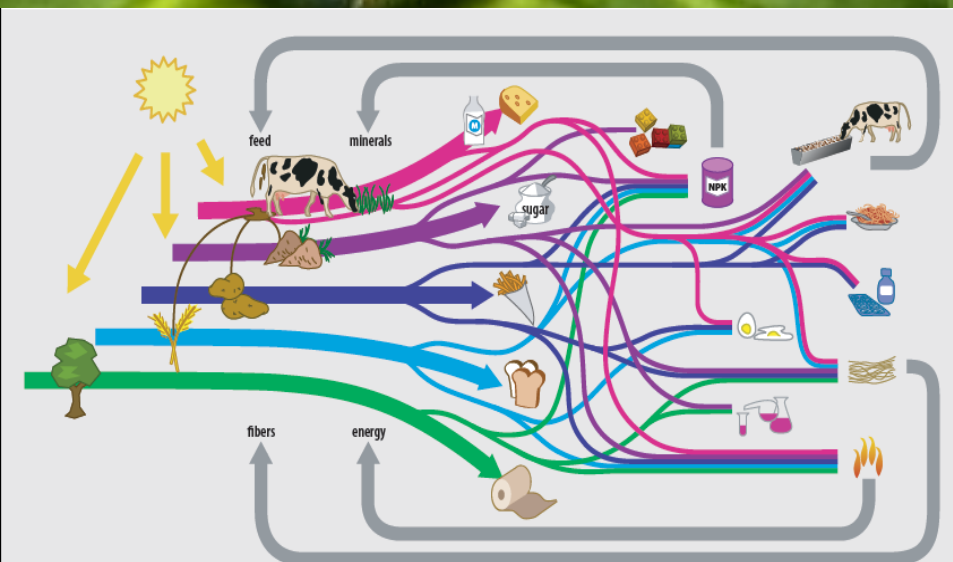


Agricultural Residues for Bioenergy

Problems/ Solutions

Introduction by Moderator

Ir. Kees W. Kwant





PIB Biobased Energy Ukraine
leading Dutch technologies for integrated solutions

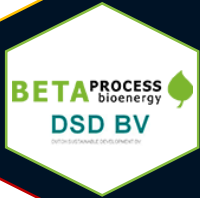
Dutch – Ukraine cooperation in sustainable use of biomass and biofuels – Dutch technologies

**Біомаса від сільського і лісового господарства,
як джерело для місцевих енергоефективних рішень –
голландські технології**

www.biobased-ukraine.nl



: Pyrolysis technology for production of bio-oil (biofuel)



: Technology to produce valuable green materials from sugar beets



: Biomass boilers (high efficiency), CHP plants



: Anaerobic digesters, biogas upgrading, boilers and CHP plants



: Insulation for flat roofs

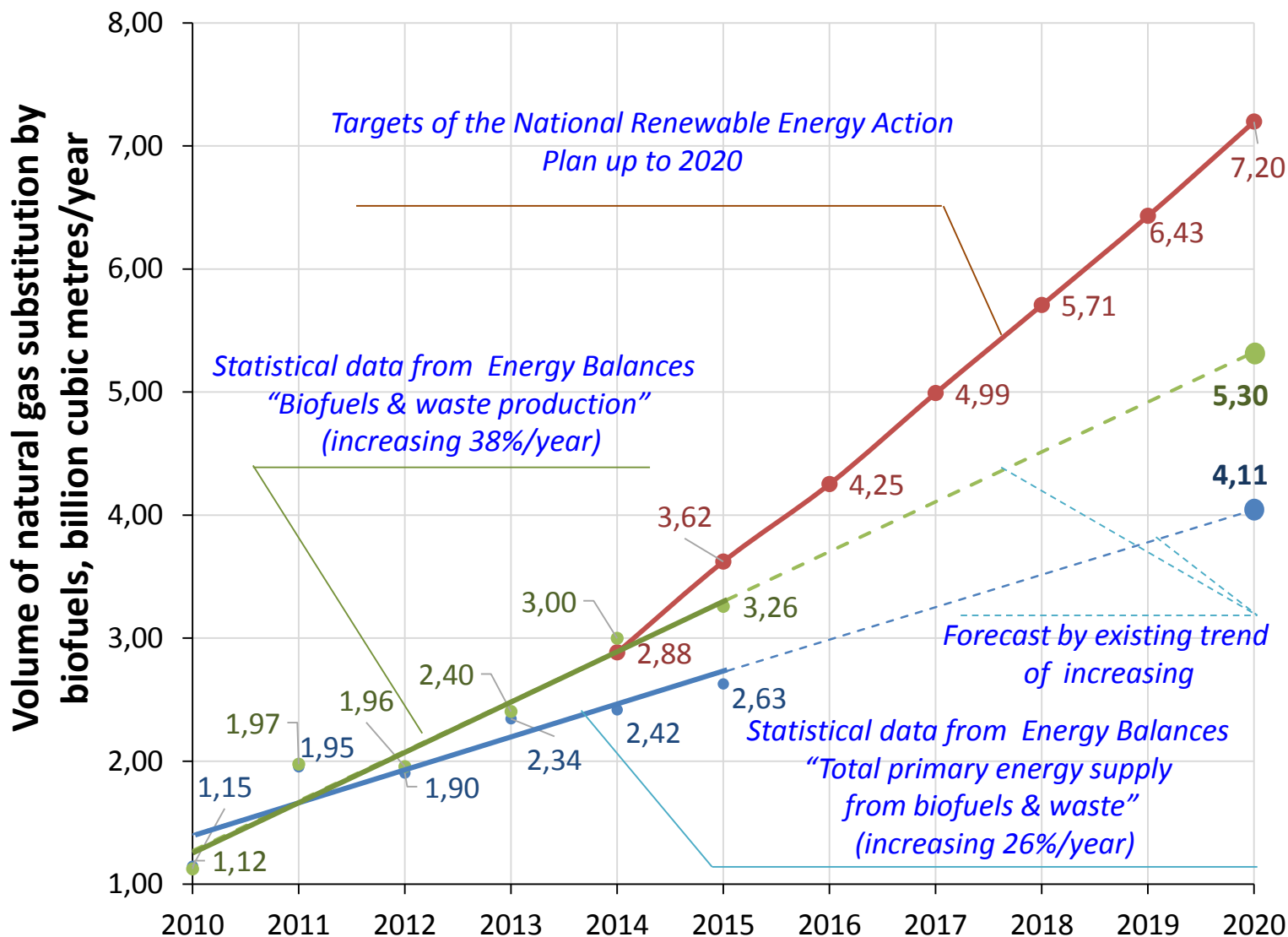


: Joint Research projects (EU funding)

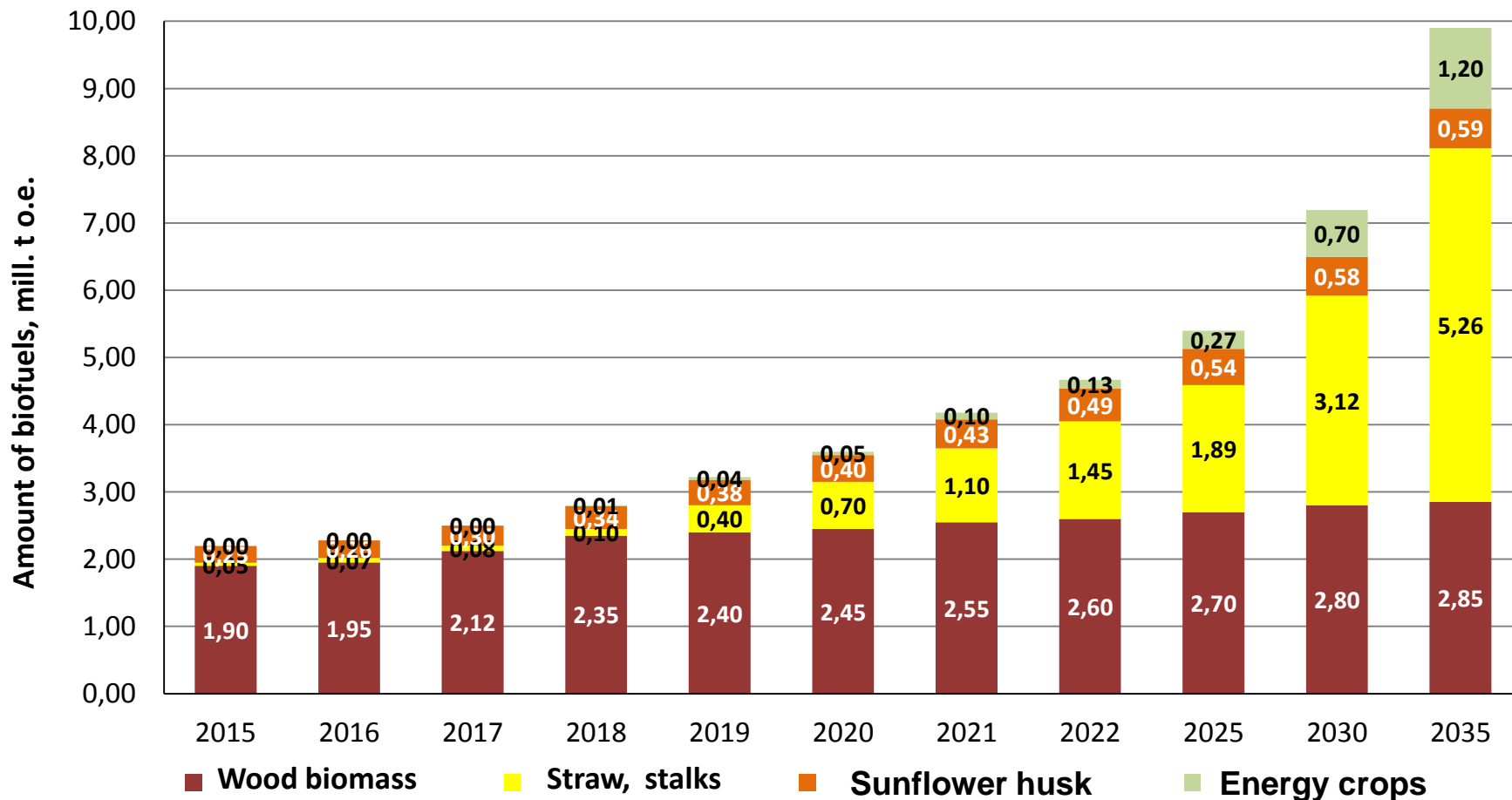


: Business trainings

Growing bioenergy development in Ukraine



Growing Bioenergy needs more biomass (straw, stalks)



Type of biomass	2015	2016	2017	2018	2019	2020	2021	2022	2025	2030	2035
Wood fuels	1,90	1,95	2,12	2,35	2,40	2,45	2,55	2,60	2,70	2,80	2,85
Straw, stalks	0,05	0,07	0,08	0,10	0,40	0,70	1,10	1,45	1,89	3,12	5,26
Sunflower husk	0,25	0,26	0,30	0,34	0,38	0,40	0,43	0,49	0,54	0,58	0,59
Energy crops	0,00	0,00	0,00	0,01	0,04	0,05	0,10	0,13	0,27	0,70	1,20
TOTAL, mill. t o.e.	2,20	2,28	2,50	2,80	3,22	3,60	4,18	4,67	5,40	7,20	9,90



Goal workshop:

- Assess utilisation of crop residues in relation to soil quality
- What is the present knowledge and facts?
- Where do we see questions and is further research needed?