



E5P

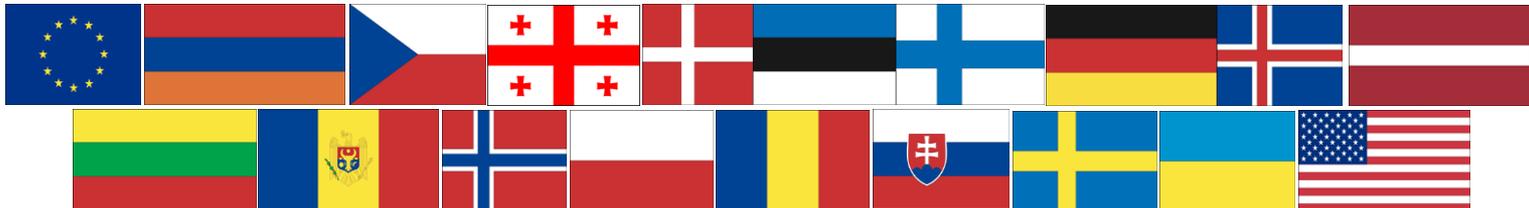
Eastern Europe
Energy Efficiency &
Environment Partnership

Update on E5P

This Partnership is implemented by the following Implementing Agencies



This Partnership is Implemented with Contributions to the Fund from



E5P Objectives and characteristics

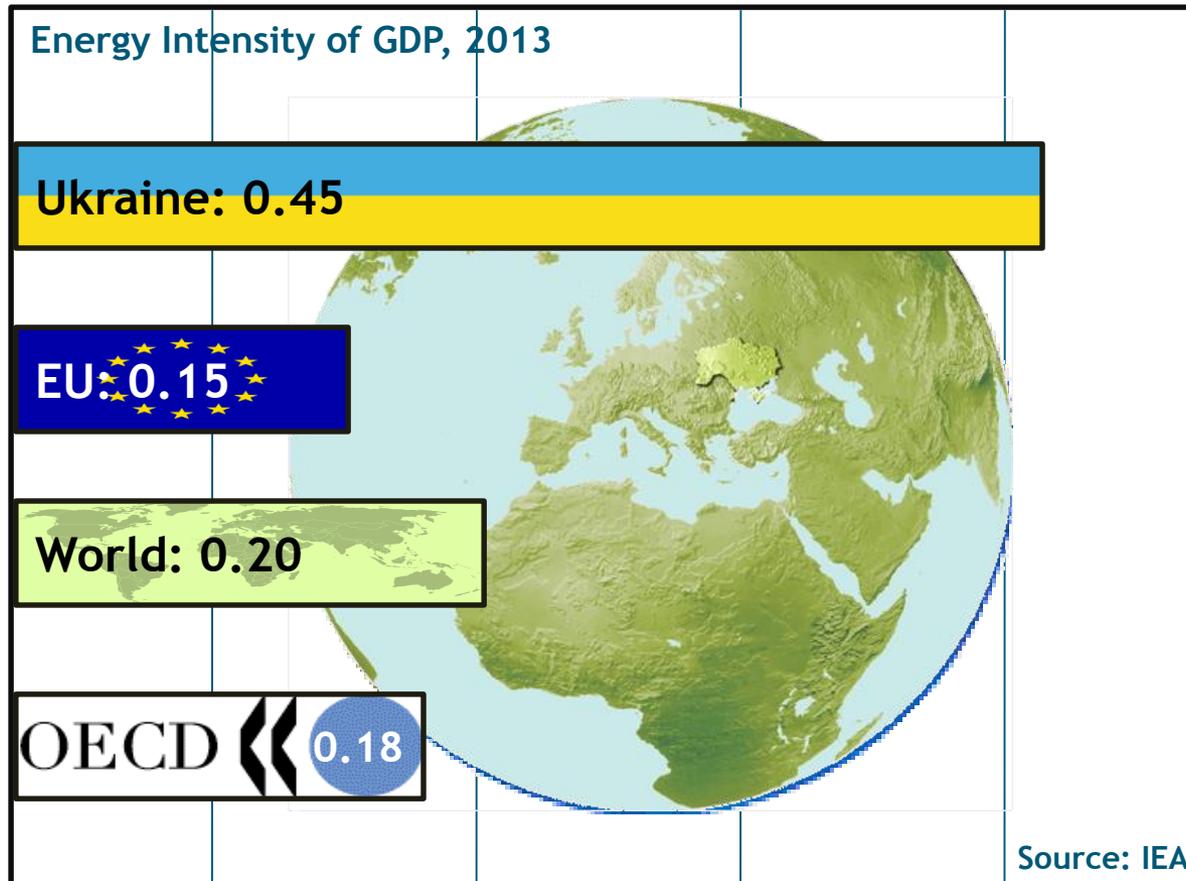
- MultiContributor Fund
- Initiated by Sweden 2009
- Pooling funding for supporting
 - Energy Efficiency Projects
 - Environmental projects with the aim to
 - Reduce CO₂ emissions and other harmful GHG
- Investments Grants mainly, but also open for TA grant
- Initial focus was Ukraine
- Unanimous decision by the AoC to expand to other countries within Eastern Partnership area taken December 2012 (Armenia, Azerbaijan, Georgia, Moldova)
- Pledging Conference arranged for Armenia, Georgia and Moldova October 2013, pledges of appr MEUR 20 per country received
- EU is the main Contributor to E5P

E5P Objectives and characteristics

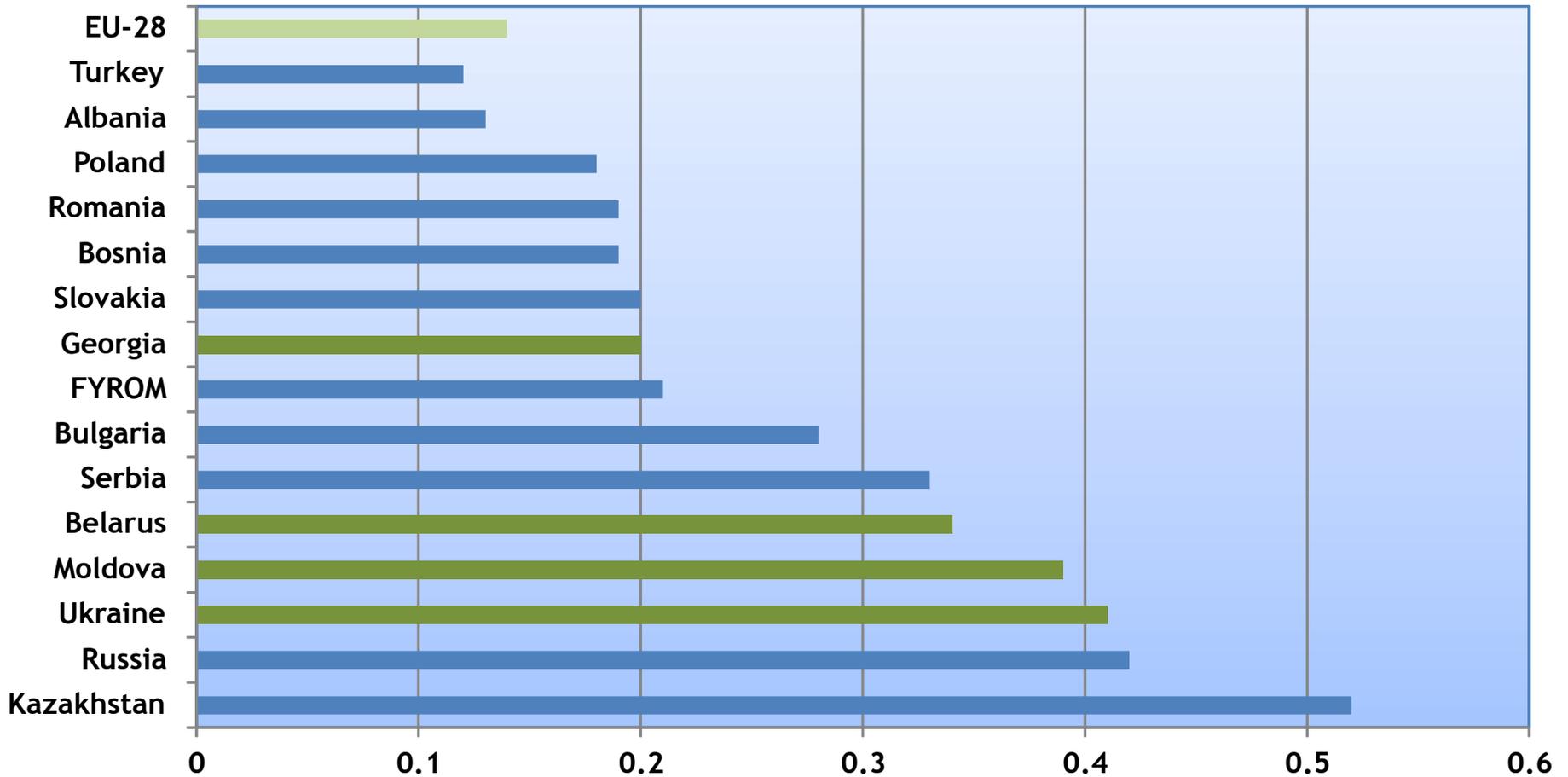
- Typical projects
 - District Heating
 - Water and Wastewater
 - Solid Waste Management
 - Street lighting
 - Insulation of Public Buildings
 - Local transport
- In general based on the need in the recipient country BUT Municipal projects
- E5P highlighted in the Joint Declaration from the Vilnius Summit and Riga Summit
 - Section, Sector Cooperation
 - “the Participants welcomed the decision to expand the E5P to cover Armenia, Georgia, Moldova in addition to Ukraine”
- Riga
 - “emphasise the important role of the E5P and the progress reached in extending the E5P” (para 14)

Ukraine: High Energy Intensity

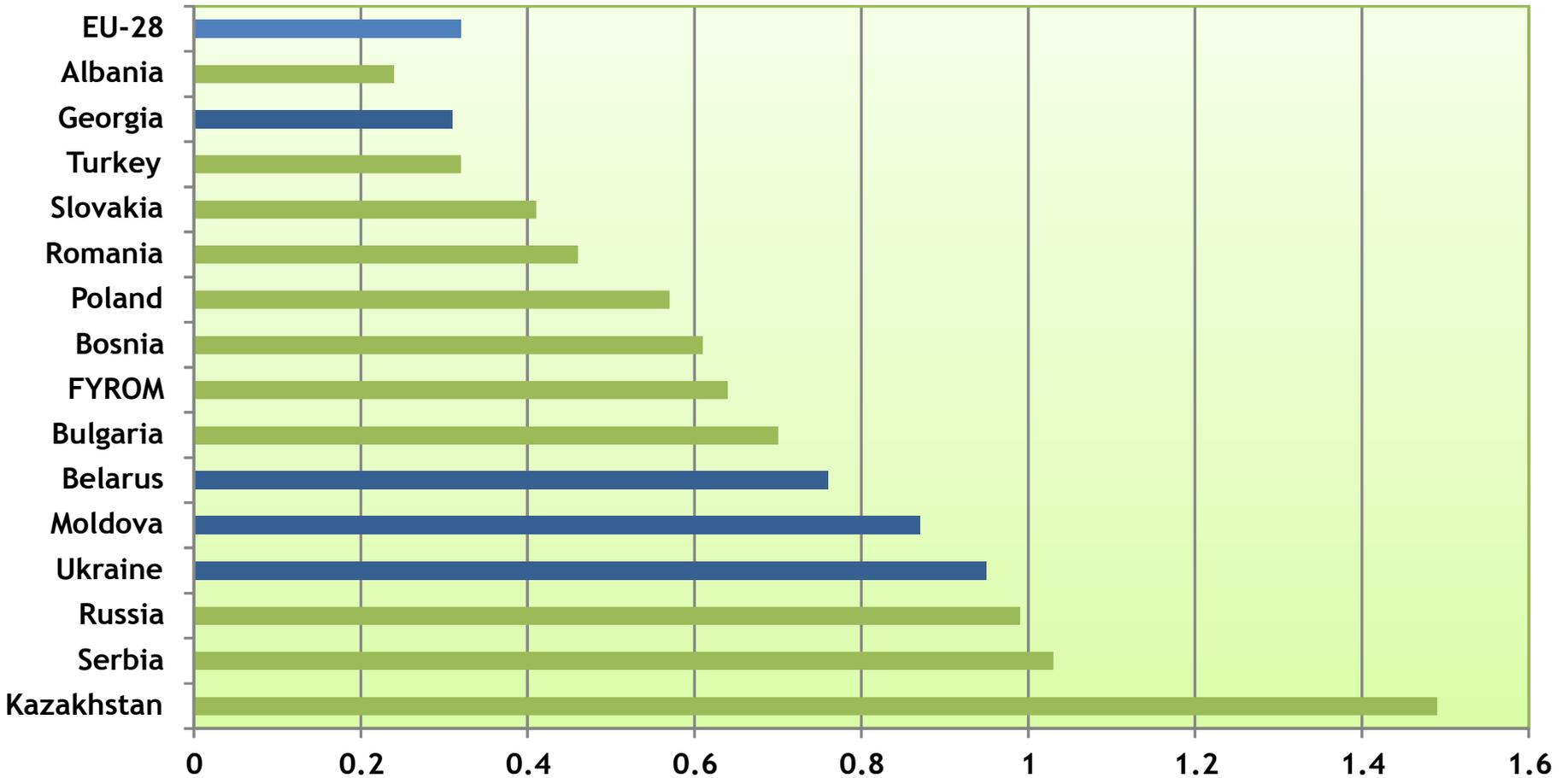
- Ukrainian energy use is currently 3 times higher than the EU average per unit of GDP



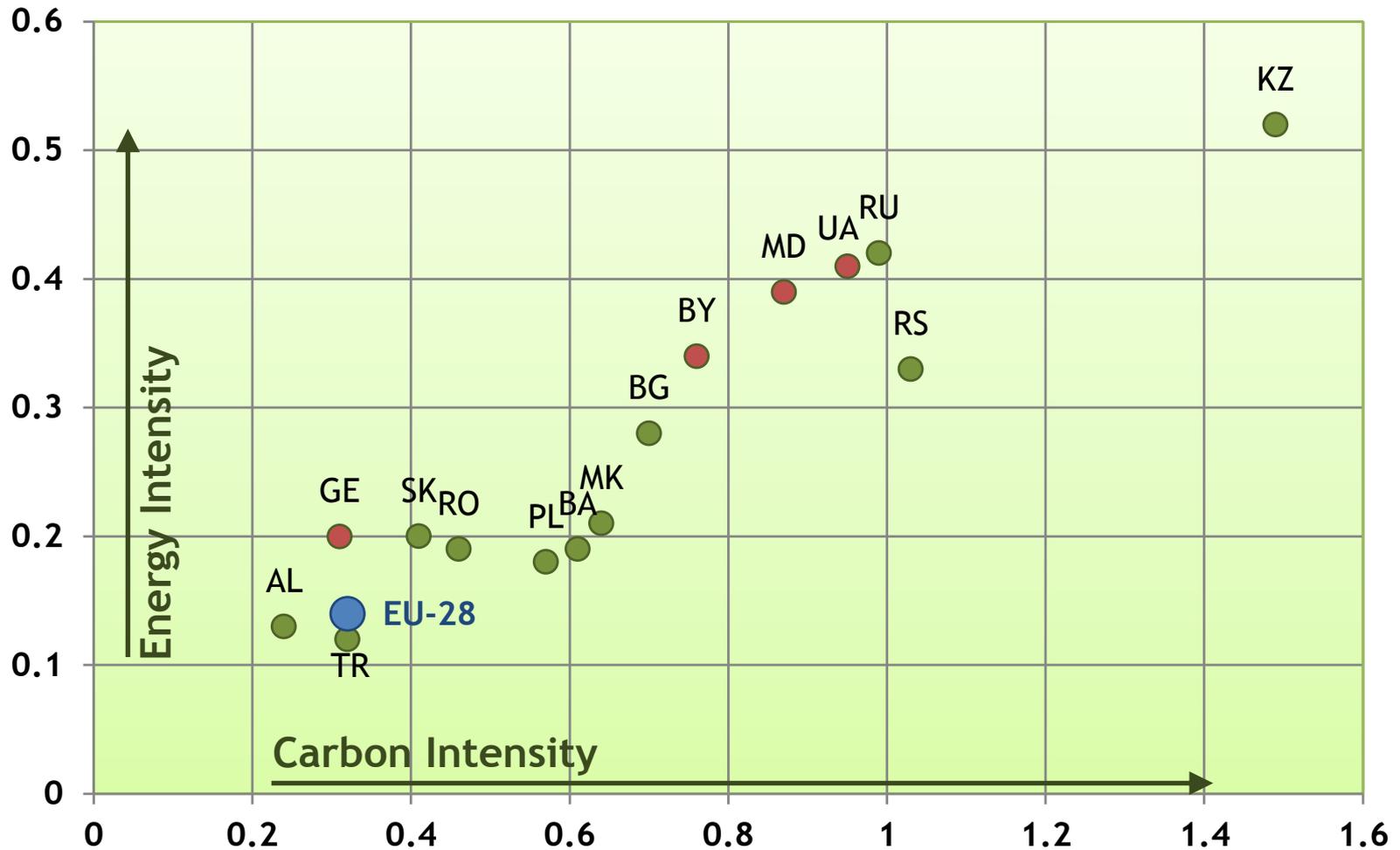
Energy Intensity (toe/GDP 1,000 USD)



Carbon Intensity (kg CO₂/GDP)

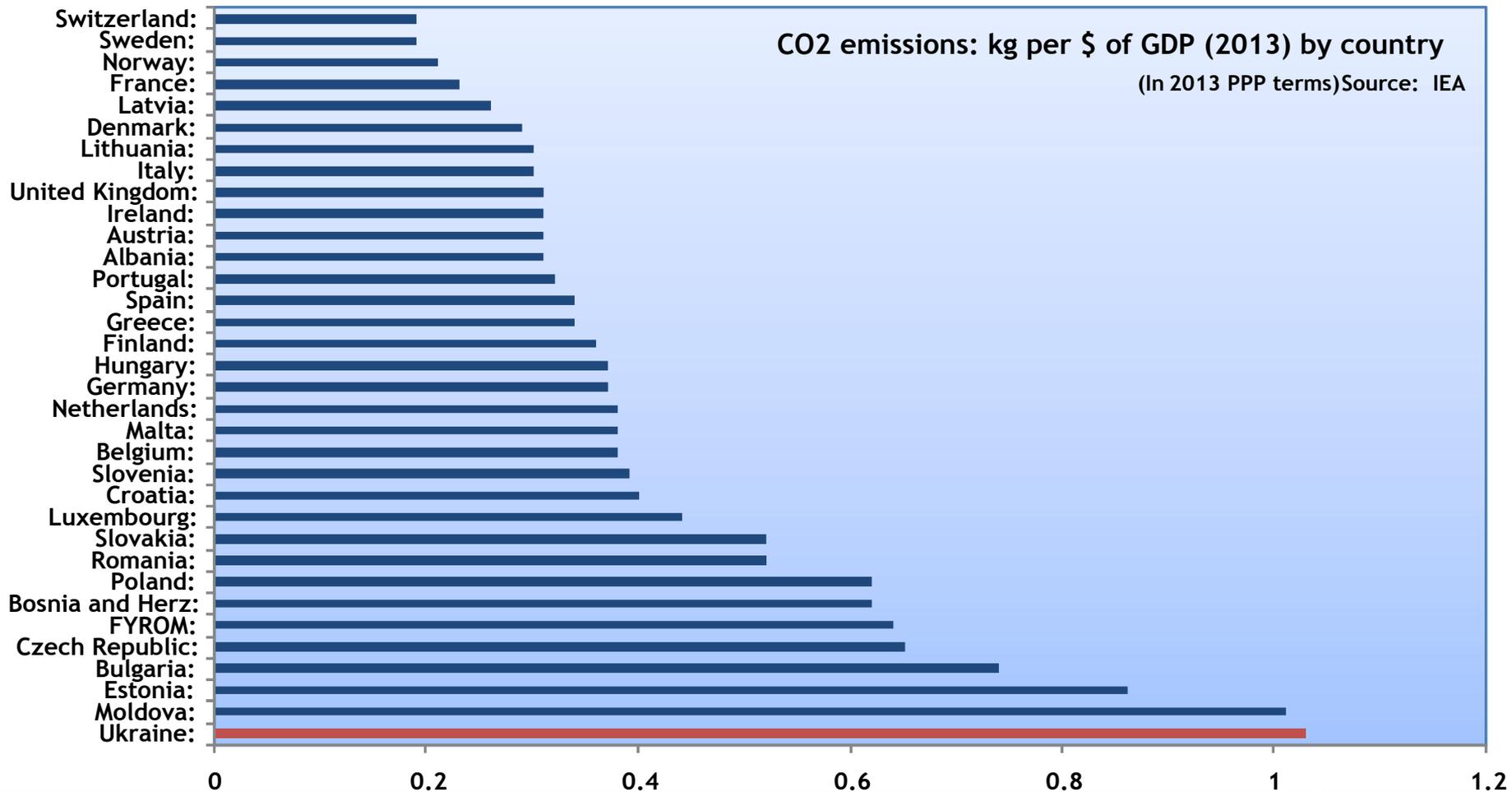


Comparison EI and CI

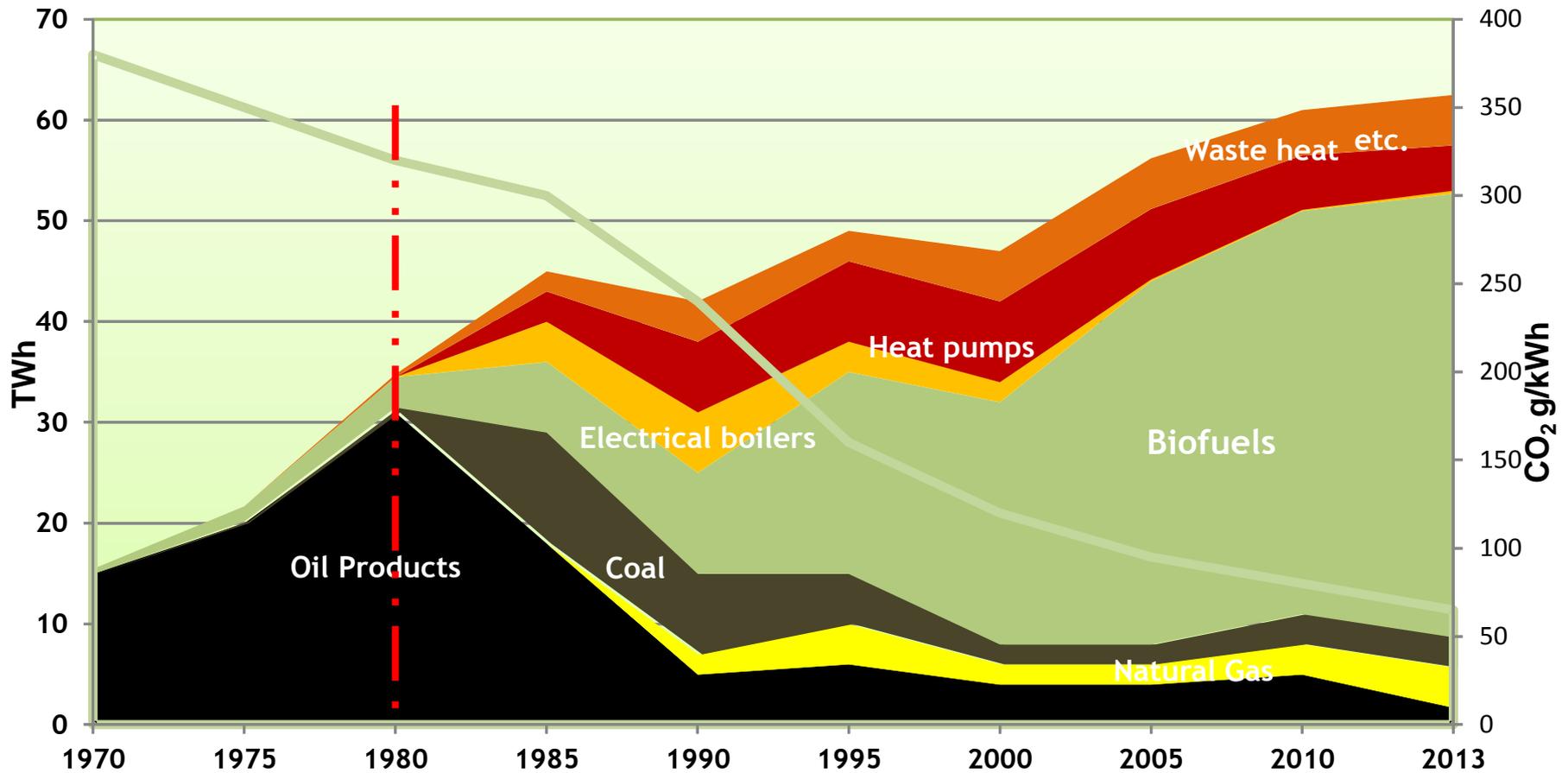


Ukraine: High CO₂ emissions

- Ukrainian CO₂ emissions per unit of GDP are the highest in Europe

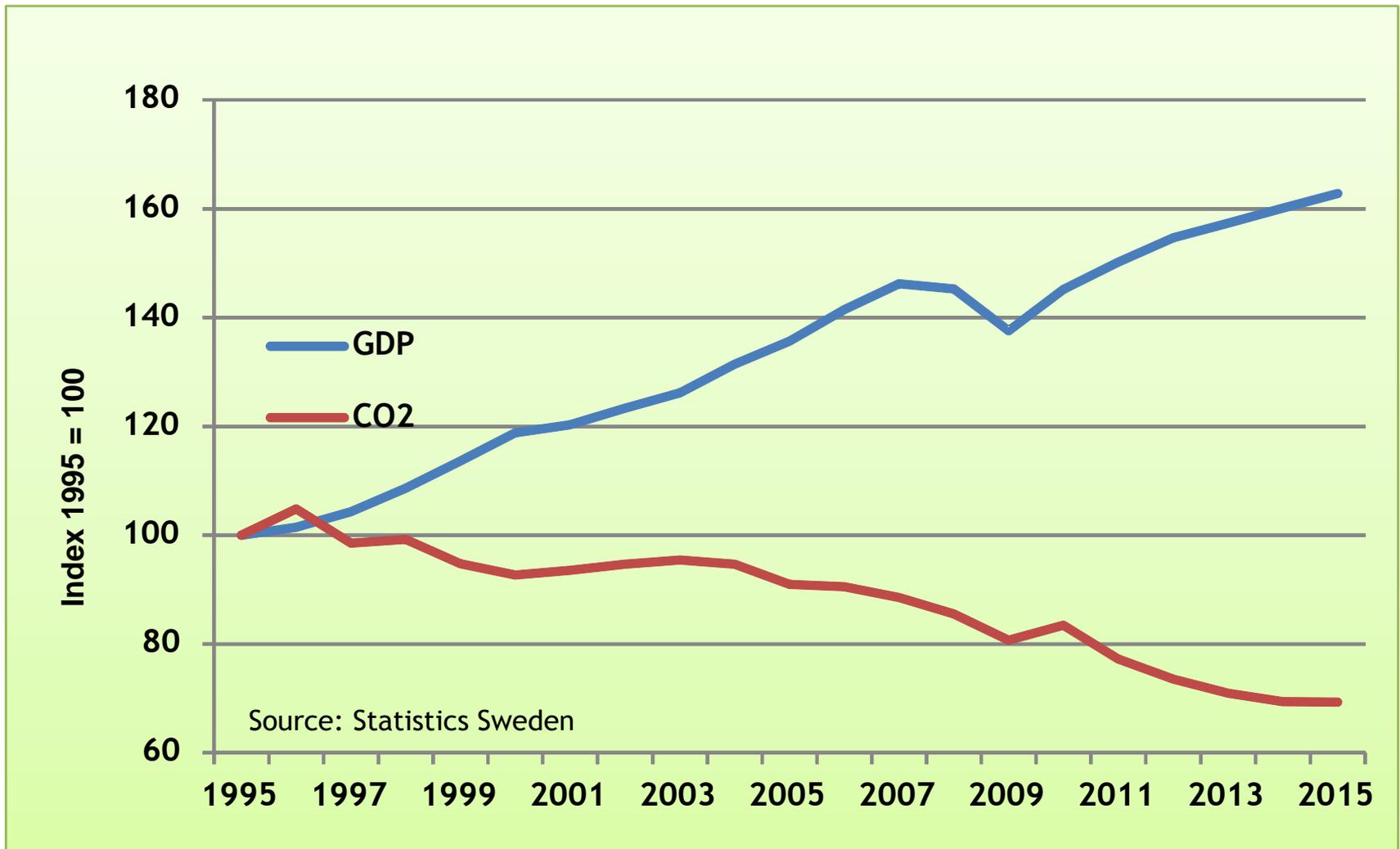


Energy input to district heating in Sweden, 1970-2013



Source: Swedish Energy Agency

GDP and CO₂ Emission in Sweden



Карта проектів E5P



E5P Contributions as per November 30, 2016



Contributor	Pledged	Paid in
Denmark	5,238,428	5,238,428
Estonia	160,000	160,000
EU	40,000,000	40,000,000
Finland	2,000,000	2,000,000
Germany	11,000,000	11,000,000
Iceland	56,842	56,842
Latvia	85,000	75,000
Lithuania	28,962	28,962
Norway	5,897,917	5,897,917
Poland	915,106	915,106
Rep of Ireland	20,532	20,532
Sweden	27,383,419	27,383,419
Ukraine	10,000,000	10,000,000
USA	5,937,465	5,937,465
Total, Euro	108,703,139	108,693,139

E5P Contributions as per November 30, 2016



Contributor	Pledged	Paid in
Armenia	1,000,000	250,000
Czech Republic	200,000	50,000
Denmark	600,000	201,518
EU	10,000,000	5,200,000
Germany	1,000,000	1,000,000
Lithuania	130,000	35,120
Norway	1,000,000	165,000
Poland	136,609	136,609
Sweden	6,000,000	4,724,106
Taipei/China TAF	132,726	132,726
Total, Euro	Appr 20,000,000	11,895,079

E5P Contributions as per November 30, 2016



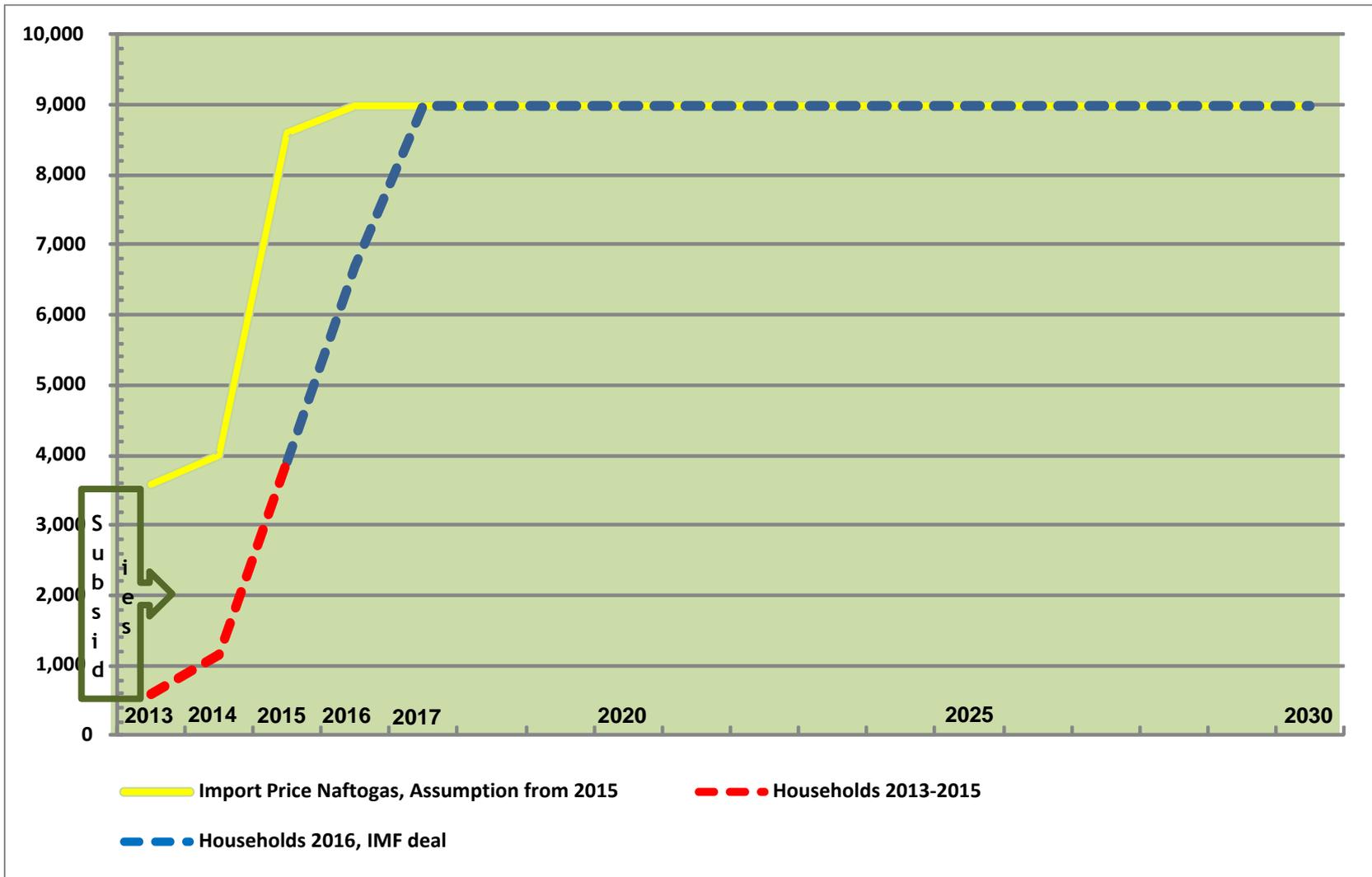
Contributor	Pledged	Paid in
Czech Republic	100,000	100,000
Denmark	537,381	537,381
Estonia	150,000	120,000
EU	10,200,000	5,200,000
Georgia	1,000,000	500,000
Germany	1,000,000	1,000,000
Lithuania	35,120	35,120
Norway	1,000,000	1,000,000
Poland	136,609	136,609
Sweden	6,000,000	5,602,825
Taipei/China TAF	132,715	132,715
USA	319,9270	319,927
Total, Euro	Appr 20,500,000	14,684,578

E5P Contributions as per November 30, 2016



Contributor	Pledged	Paid in
Czech Republic	200,000	50,000
Denmark	1,000,000	537,381
Estonia	240,000	120,000
EU	18,750,000	5,367,647
Germany	1,000,000	1,000,000
Lithuania	135,000	35,120
Norway	1,000,000	165,000
Moldova	1,000,000	550,000
Poland	136,609	136,609
Romania	100,000	100,000
Slovak Republic	100,000	50,000
Sweden	6,000,000	3,649,967
Total, Euro	Appr 30,000,000	11,761,724

New Ukrainian Gasprices, Assumption from 2016. Import and households



What do you get for 92 MEUR as Grant ??

59 Investment Projects

Saved water



585,000 tonnes pa
Or
5,850,000 tonnes

Overall Investment of 580 MEUR

Energy Saved
310,000 MWh p a



Est MEUR 32 p a

Saved other GHG



Substantial
Gas savings



E5P Results and Savings so far, as calculated 15 projects

Energy

- **Energy savings: ~310,753 MWh per year**
= annual household electricity consumption of more than **225,000 average EU households**
- = city the size of 565,000 people (e.g. Rotterdam or Kryvyi Rih)



E5P Results and Savings so far

..CO₂



- **Total CO₂ savings during project lifecycle: 5.85 million tonnes**
= emissions from 1,000,000 passenger cars driving one lap each around the earth equator!

E5P Results and Savings so far

..CO₂

CO₂ savings: ~585,000 tonnes per year

= average annual CO₂ emissions from >266,000 passenger cars



Source: Eurostat