



REPUBLIC OF SLOVENIA
MINISTRY OF AGRICULTURE AND THE ENVIRONMENT

The making of long term low carbon strategy : Slovenia's experience

1st Workshop on developing Croatian
Low-Emission Development Strategy
(LEDS), Zagreb, June 14

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First phase

End of 2009 – February 2011



Background

- 2009: Declaration on the active role of Slovenia in the creation of a new global policy on climate change, Government Office of Climate Change
- 2010: Slovenian Exit Strategy, Climate Change Act
- Research projects, developing scenarios, modelling, ...





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Second phase

February 2011- March 2012



scoping

- To determine the scope, depth and terms of reference (overall objectives, analytical foundation for further work,...)
- background paper as a starting point
- Meetings with stakeholders

Prejeti predlogi za vsebino strategije

Prejeti smo naslednje vsebinske predloge na izhodišče strategije:

[Pripombe in predlogi Ministrstva za gospodarstvo](#), 15. 3. 2011.

[Mnenje Ministrstva za javno upravo](#), 16. 3. 2011.

[Mnenje Ministrstva za finance](#), 16. 3. 2011.

[Mnenje Službe Vlade RS za razvoj in evropske zadeve in priloge](#), 16. 3. 2011.

[Pomisleki o izhodišču](#), dr. Fedor Černa, Direktorat za promet, Ministrstvo za promet.

CIPRA Slovenija, društvo za varstvo Alp:

- [Izviden v Osvetlovanju podnebne spremembe](#), Članovni tematski dokument Cigna, dojeje št. 08/2010.
- [Razpisna dokumentacija oddaj](#), Članovni tematski dokument Cigna, dojeje št. 08/2010.
- [Priloge in dodatne sklopi in podrobne razprave](#), Članovni tematski dokument Cigna, dojeje št. 02/2009.
- [Razpisna dokumentacija oddaj](#), Članovni tematski dokument Cigna, dojeje št. 01/2009.
- [Razpisna dokumentacija oddaj](#), Članovni tematski dokument Cigna, dojeje št. 01/2010.
- [Sklepi strategije in ciljne države](#), A CIPRA background report, compact no 02/2010.
- [Sklepi strategije in ciljne države](#), A CIPRA background report, compact no 03/2009.

[Komentar na izhodišče za strategijo in Seznam zanimivih študij](#) (opode), Barbara Kvac, Focus društvo.

- [The Emissions Gap Report: Are the Copenhagen Accord pledges sufficient to limit global warming to 2°C or 1.5° C?](#), United Nations Environment Programme (UNEP), 2010.
- [Analysis of options to move beyond 20% greenhouse gas emission reductions and assessing the risk of carbon leakage](#), Background information and analysis, (COM(2010) 265 final), RC 2010.
- [Commission staff working document accompanying the Analysis of options to move beyond 20% greenhouse gas emission reductions and assessing the risk of carbon leakage](#), Background information and analysis, part I (COM(2010) 265 final).
- [Commission staff working document accompanying the Analysis of options to move beyond 20% greenhouse gas emission reductions and assessing the risk of carbon leakage](#), Background information and analysis, part II (COM(2010) 265 final).
- [Impact Assessment: Review of accompanying the Strategy of implementation measures for the EU's objectives on climate change and renewable energy for 2010-2020](#), RC 2009.
- [Roadmap for Energy of a World-Class Region: Review Report](#), Programme in History, Center for Climate Change and Sustainable Energy Policy (CCSEP) of Central European University, Budapest, 2010.
- [Horizon 2020: Identifying the breakthrough technologies that will lead to dramatic greenhouse gas reductions by 2050](#), Climate Action Network Europe in CE-Delft, 2010.
- [Regional Emission Reduction Potentials and Economic Costs for Climate Change \(SERPPCC-CC\)](#), Wesselski, B. and Y. Deng, Scofy's v konzorciju s DSM I&I, IPTS, ASA in CE-Delft, 2010.
- [Slovenija 2050: How to limit the impact of energy savings policies in Europe](#), Scofy's in Fraunhofer ISI, Wesselski, B., R. Hansen and W. Rottmann, 2010.
- [Acting now for a better health: A 20% reduction target for EU climate policy](#), Health and Environment Alliance and Health Care Without Harm – Europe, September 2010, December 2010.
- [Sustainable livelihoods beyond 2020: such as renewable energy](#), Thure Traber, Claude Kemfert, Jochen Diekmann.
- [Working for the Climate – Renewable Energy and the Green Job Revolution](#), Greenpeace.

[Pripombe na izhodišče za pripravo Strategije prehoda Slovenije v nizkoogljeno družbo do leta 2050 in Dodatni viri](#) (opode), Vida Gornšek, Umarians.

- [Taxing carbon: Worth a go. Designing the tax is not uncomplicated, but it is a mission well worth](#), The Economist, 17/08/2010.
- [Program Združenih narodov za okolje \(UNEP\): Towards a Green Economy](#), poročilo, Februar 2011.

[Pripombe na izhodišče za pripravo strategije prehoda Slovenije v nizkoogljeno družbo do leta 2050](#), Marko Peterlin, Inštitut za politike prostora (IPP) in Senka Vrba, Pravno-informacijski center nevladnih organizacij – PIC.

[Izhodišče za podnebno strategijo – komentar mednarodne okoljske organizacije Greenpeace in Seznam relevantnih študij](#) (opode), Mag. Nina Strac, vodja aktivnosti za Greenpeace CEE v Sloveniji.

- [Sindbad: Can or how? How the EU ETS rules lock-in carbon emissions](#), September 2010.
- [A 2008 report by research organization Climate Strategies and the University of Cambridge assessed the impact of tighter reduction targets on the industrial sectors covered by the EU emissions trading scheme \(ETS\)](#).
- [Research undertaken by the Clio Institut, examined industry in Germany: Impacts of the EU ETS on industrial competitiveness in Germany](#), Clio-Institut – Institute for Applied Ecology, 2009.
- [Research project by research company CE Delft that examined industries in the Netherlands](#).
- [Greenpeace report: State of the Grid](#), 2011.
- [The synthesis report of the study: "A New Growth Path for Europe - Generating Growth and Jobs in the Low-Carbon Economy"](#) was published on the 21st of February. The underlying research and data will be published in March 2011.
- [Buchan David: The Oxford Institute for Energy Studies. Sustain Europe's energy challenge: meeting the EU climate commitments](#), July 2010.
- [Ambitious emission reductions will be cost-effective for the EU](#), SERPPCC-CC study.
- [Analysis by the German Aerospace Center et. al. for Greenpeace and GREC: Report 2010 EU 27 energy scenario: \[Scenarij izid\]\(#\) solution: Towards a fully renewable energy supply in the EU 27](#).
- [A 100% renewable energy pathway has been recognized as feasible and realistic by a number of studies for the EU level and for individual EU member states. These include for example \[an analysis by the German government's advisory Council on the Environment - a study for the Austrian government\]\(#\) - and \[a report by the Danish government's Climate Commission\]\(#\).](#)

[Strategija GZS do izhodišča za pripravo strategije prehoda Slovenije v nizkoogljeno družbo do leta 2050 s Priloge za dopolnilne izhodišče Strategije prehoda Slovenije v nizko ogljeno družbo do leta 2050 s strani Zbornice elektronske in elektroindustrije GZS](#)



Organising sectoral workshops

- 11 workshops
- May-July 2011
- Over 250 people
- Experts in the field & key players



All following the same agenda...



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Keynote address





SWOT analysis



*common
vision
definition*



*identification of
existing policy
documents*



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moderated discussion

brainstorming, short listing and prioritizing





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few shortlisted measures –
identifying responsible entities,
costs and sources of financing,
indicators of successful
implementation, ...

group work, presentation of outcomes





impact assessment evaluation forms



STAVBE, ZGRADBE, OBJEKTI, GRADBENIŠTVO

Za vse ukrepe, ki smo jih na delavnici predvideli, je na koncu treba opraviti še celovito presojo vplivov na okolje (CPVO). Prosimo vas, da ocenite na kakšen način bodo predvideni ukrepi vplivali na različna področja (naravni viri, zrak, voda, narava, kulturna dediščina, podnebje, krajina, zdravje in materialne dobrine). Ta vpliv je lahko pozitiven (+), negativen (-) ali nevtralen (o), zato ga z znakom tako označite. Če menite, da je potrebno vključiti še kakšen okoljski podcilj in pripadajoč kazalnik, ga dopišite in o tem obvestite organizatorje delavnice.

Za sodelovanje se vam najlepše zahvaljujemo in vam želimo še veliko uspehov!

CPVO (vidik vpliva)	Okoljski cilj	Okoljski podcilj	Kazalnik	Ukrep	Vpliv
Naravni viri	Trajnostna raba naravnih virov	<ul style="list-style-type: none">Postopno zmanjšanje vplivov na okolje zaradi rabe novih materialov za gradnjoTrajnostna energetska raba gozdne biomasePostopno povečanje recikliranega materiala v gradnjo stavb	<ul style="list-style-type: none">Letna poraba novih gradbenih surovinLetna poraba lesa v gradbeni industrijiLetna uporaba recikliranega materiala v stavbah		
Zrak	Zagotoviti doseganje nacionalnih zgornjih mej emisij onesnaževal zunanjega zraka	<ul style="list-style-type: none">Zagotoviti doseganje nacionalne zgornje meje emisije SO₂Zagotoviti doseganje nacionalne zgornje meje emisije NO_xZagotoviti doseganje nacionalne zgornje meje emisije VOC	<ul style="list-style-type: none">Letna emisija SO₂Letna emisija NO_xLetna emisija VOCLetna emisija NH₃Letna emisija (PM TSP, PM₁₀, PM_{2,5})		

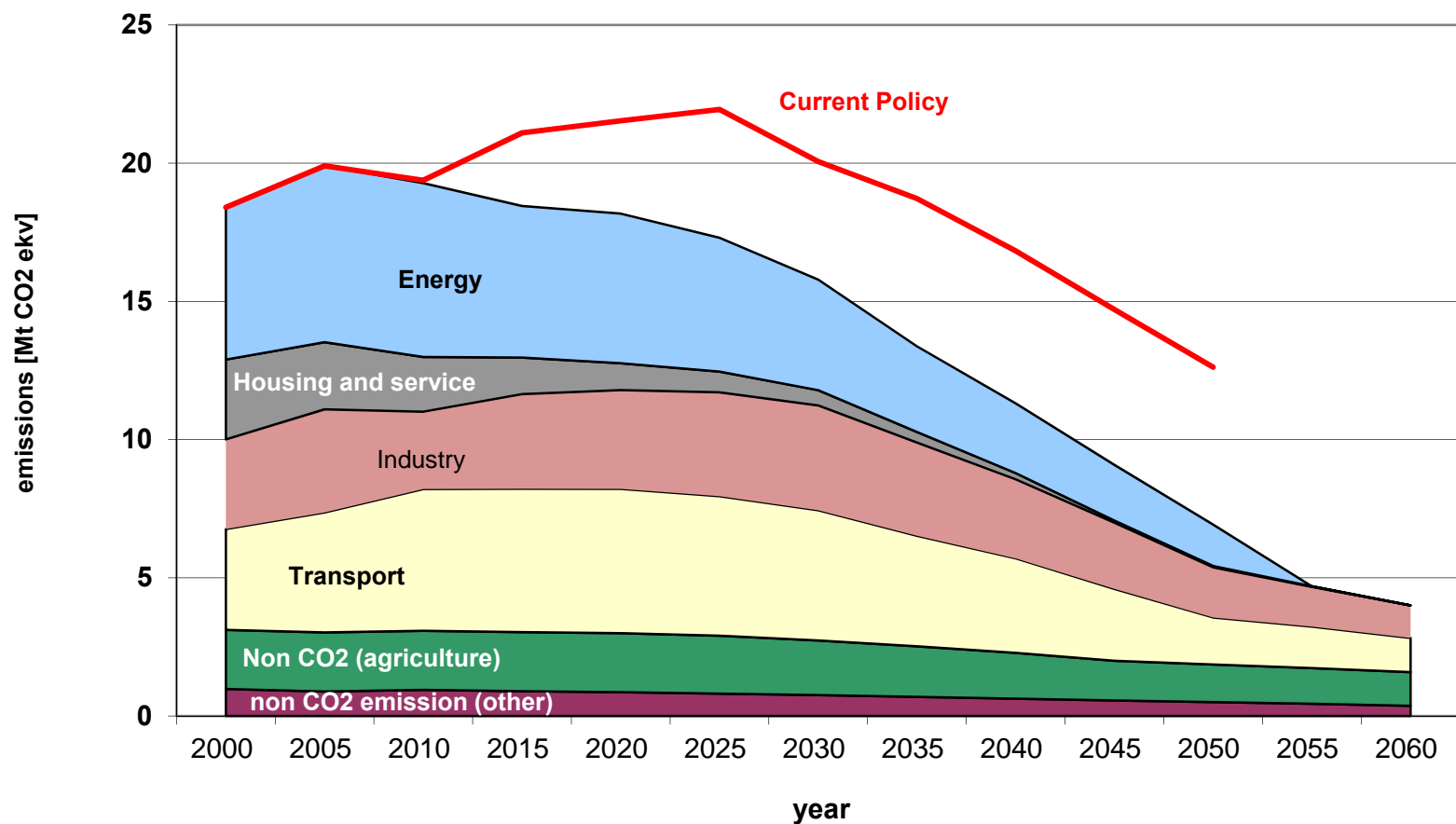


Workshops' reports → text of the strategy

- SWOT analysis →
 - Vision
 - Existing policy documents
 - Shortlisted measures
- Analysis of the existing situation and key policy documents
 - Objectives
 - Policy guidelines
-



Expert consultation on scenarios for the transition of Slovenia to a low-carbon society in the context of European policy





Expert consultation II

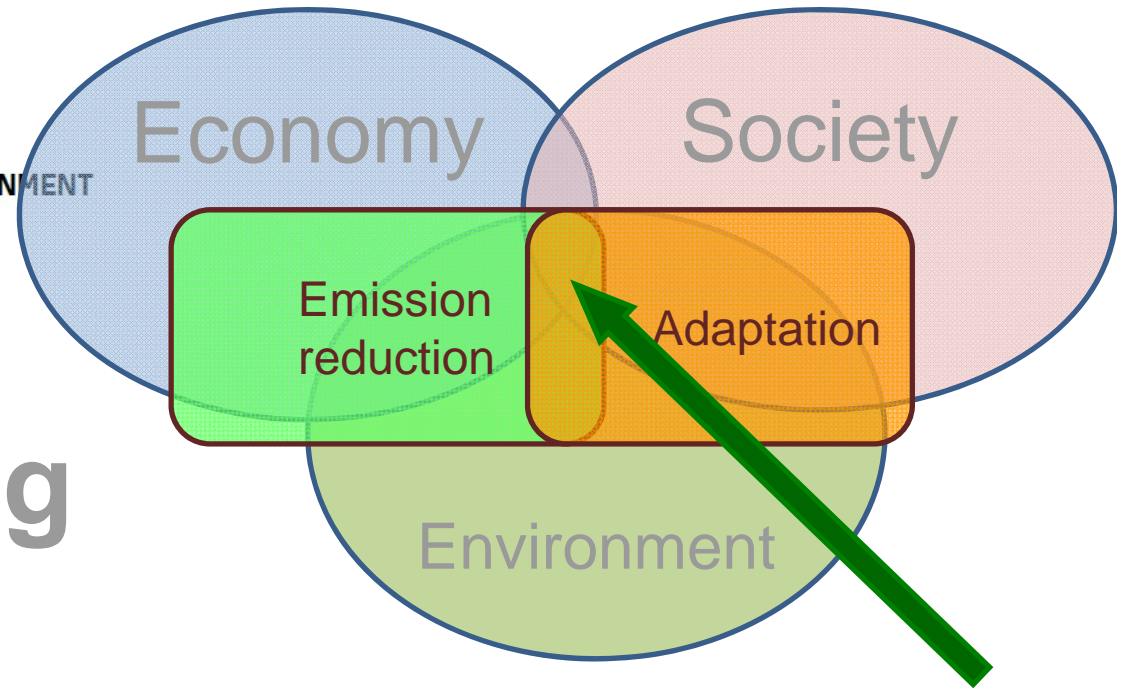
OSNOV. scenarij - INT strategija 2ab	2015	2020	2025	2030	2035	2040	2045	2050	2055	2060
Emisije TGP [Mt CO₂]_{vse}	18,453	18,176	17,303	15,788	13,374	11,310	9,086	6,928	4,692	4,000
Energetika	5,487	5,412	4,842	4,001	3,096	2,521	2,018	1,5	0	0,000
Stanovanja in storitve (stavbe)	1,320	0,971	0,751	0,551	0,384	0,226	0,074	0,049	0,025	0,000
Industrija (goriva)	2,259	2,369	2,515	2,515	2,216	1,916	1,704	1,200	0,901	0,719
Promet	5,190	5,216	5,050	4,712	4,000	3,421	2,600	1,700	1,500	1,240
Emisije, ki niso emisije CO ₂ (kmetijstvo)	2,137	2,137	2,084	1,982	1,838	1,661	1,427	1,357	1,287	1,220
Emisije, ki niso emisije CO ₂ (drugi sektorji)	0,894	0,861	0,819	0,748	0,684	0,621	0,572	0,508	0,444	0,365
Industrijski procesi	1,164	1,209	1,241	1,279	1,156	0,943	0,692	0,614	0,536	0,456
Emisije CO₂ (goriva) [Mt CO₂]	14,257	13,968	13,158	11,779	9,753	7,026	4,493	1,864		0,000
	20,228	20,228	20,228	20,228	20,228	20,228	20,228	20,228	20,228	20,228
	-9	-10	-14	-22	-34	-44	-55	-66	-77	-80



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Third phase

From April 2012 on...



New setting

- Right wing coalition government
- Reorganisation of public administration
- Different priorities, focus on implementation
- Austerity measures in all sectors



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Time for questions

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