

#GreentoScale

Scaling up existing climate solutions in Estonia

*Oras Tynkkynen
Finnish Innovation
Fund Sitra
@orastynkkynen*

*Lauri Tammiste
SEI Tallinn Centre
@LauriTammiste*



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*Green to Scale:
how far can we go with
what we already have?*

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Exciting results in two studies



- **Global Green to Scale** in 2015 covered 17 solutions from both the global North and the South
- 12 Gt emission reduction potential – equal to about 1/4 of current global emissions
- Annual net costs at most \$94 billion – less than 1/5 of current direct fossil fuel subsidies



- **Nordic Green to Scale** in 2016 analysed the potential of 15 Nordic solutions
- 4 Gt emission reduction potential – equal to total EU emissions today
- Annual net costs \$13 billion – equal to 9 days of current direct fossil fuel subsidies

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2 regions x 10 solutions



Who is behind Nordic Green to Scale

- Project co-ordinated by the Finnish Innovation Fund Sitra (FI)
- Nordic partners include CICERO (NO), CONCITO (DK) and University of Iceland (IS)
- Analysis carried out by Stockholm Environment Institute (SEI) Tallinn Centre with the support of local experts
- Funding kindly provided by the Nordic Council of Ministers (NCM)
- Nordic Green to Scale included in the Nordic Prime Ministers' Initiative Nordic Solutions to Global Challenges



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Nordic Green to Scale for countries

Unlocking the potential of climate solutions in the Baltics, Poland and Ukraine

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Nordic Green to Scale 2

CO₂ abatement potential, cost, enablers, barriers and recommendations: Estonia, Latvia, Lithuania, Poland and Ukraine

Stockholm Environment Institute Tallinn Centre

Tammiste, L., Poltimäe, H., Kuldna, P., Kallaste, T., Kirsimaa, K., Grünvald, O., Kuusk, K.
April 2018

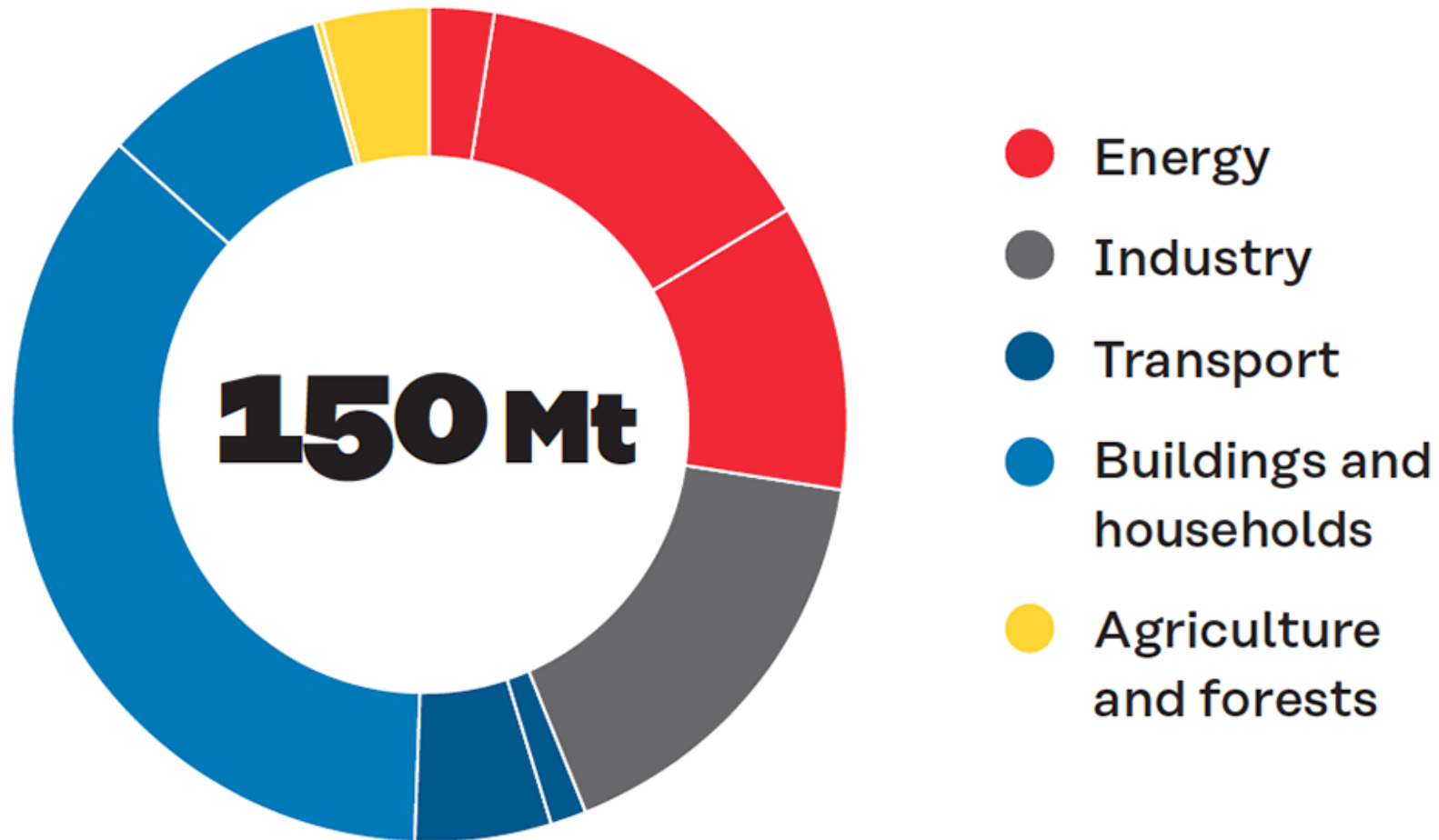
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*Key results: large potential
in scaling up existing
climate solutions*

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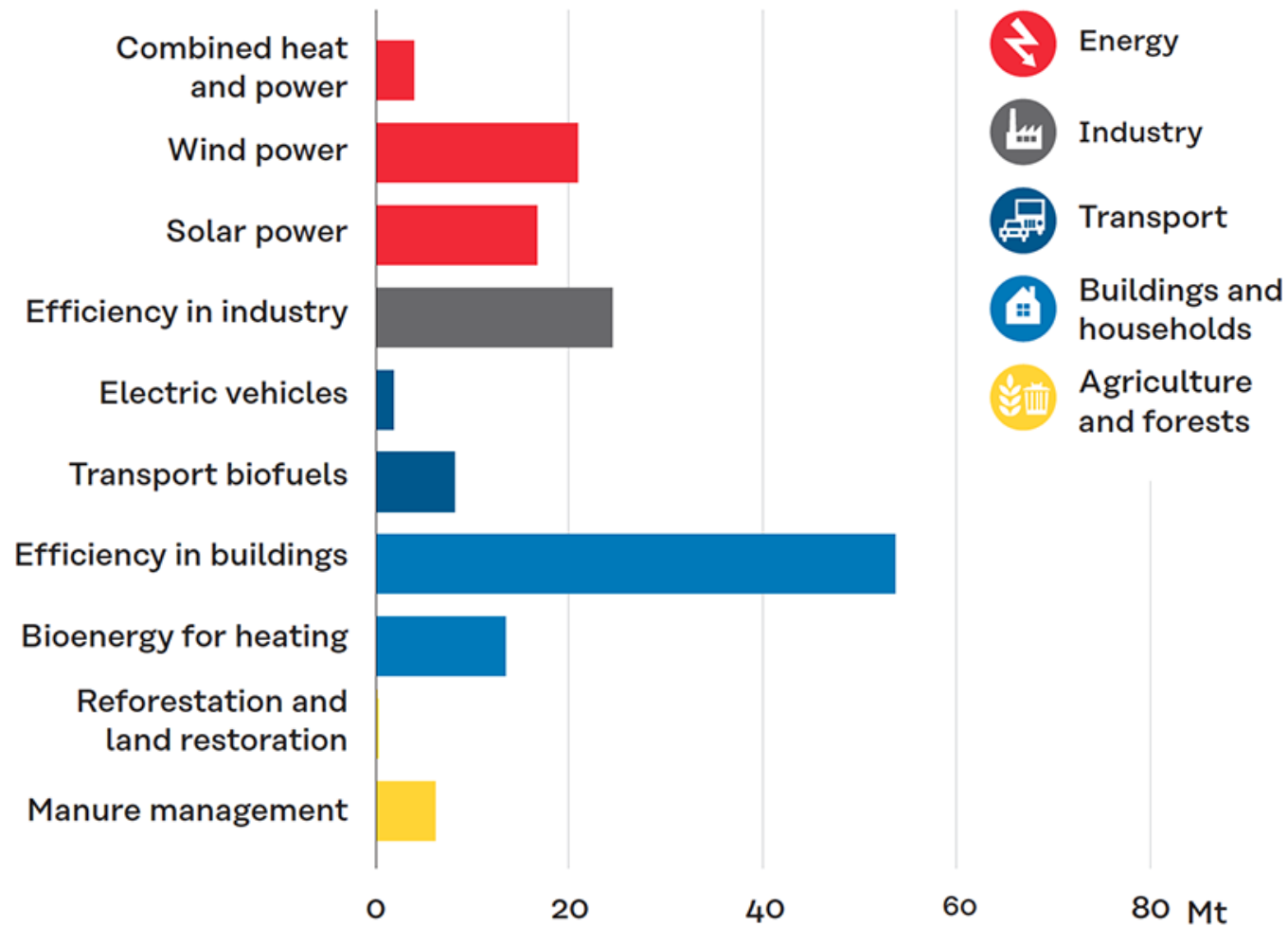
Significant reduction potential in 2030



Additional emission reduction potential of scaling up the solutions to the five target countries when overlap is not accounted for



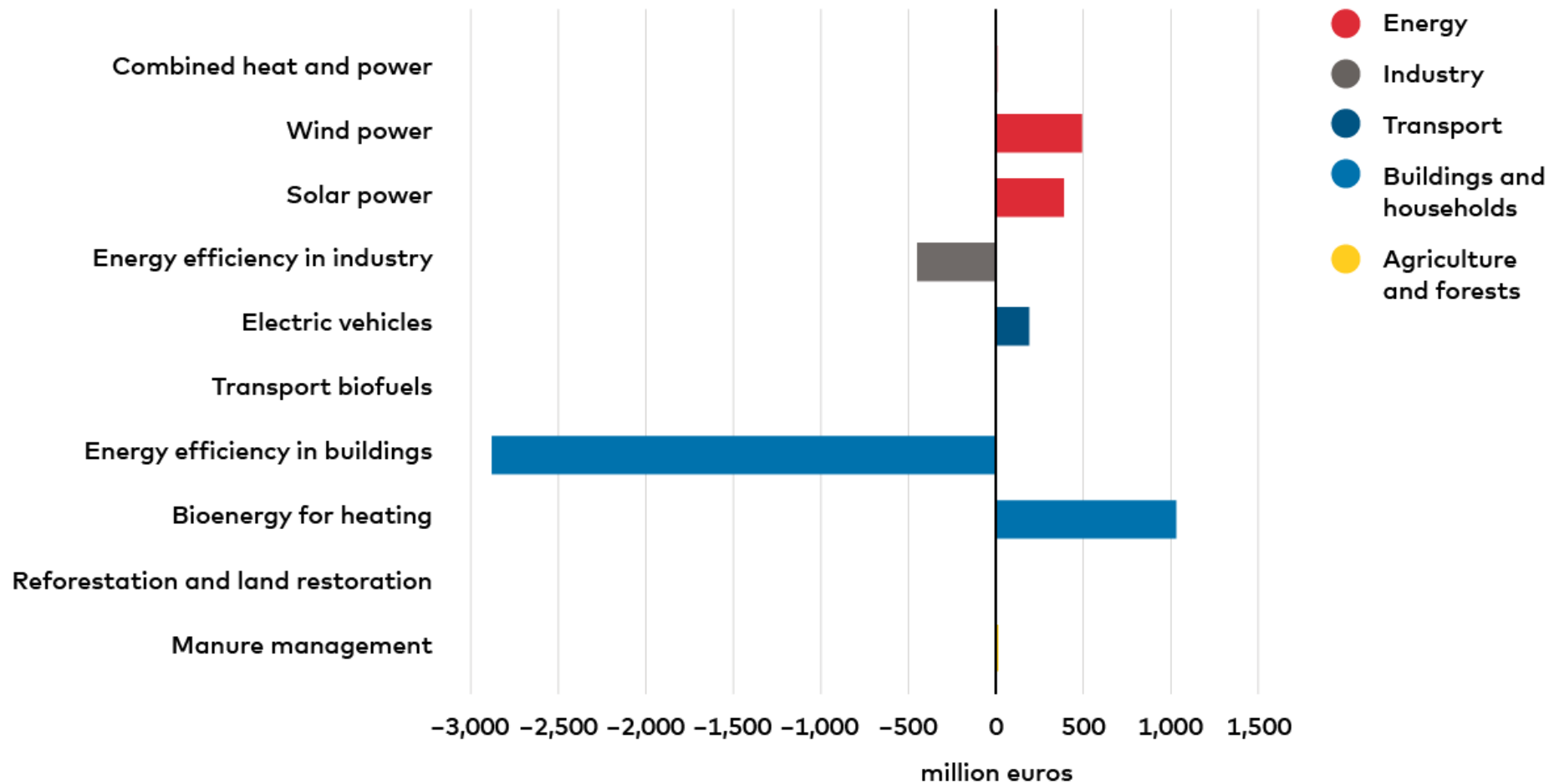
Efficiency and renewables very promising



Additional emission reduction potential of scaling up the solutions to the five target countries when overlap is not accounted for



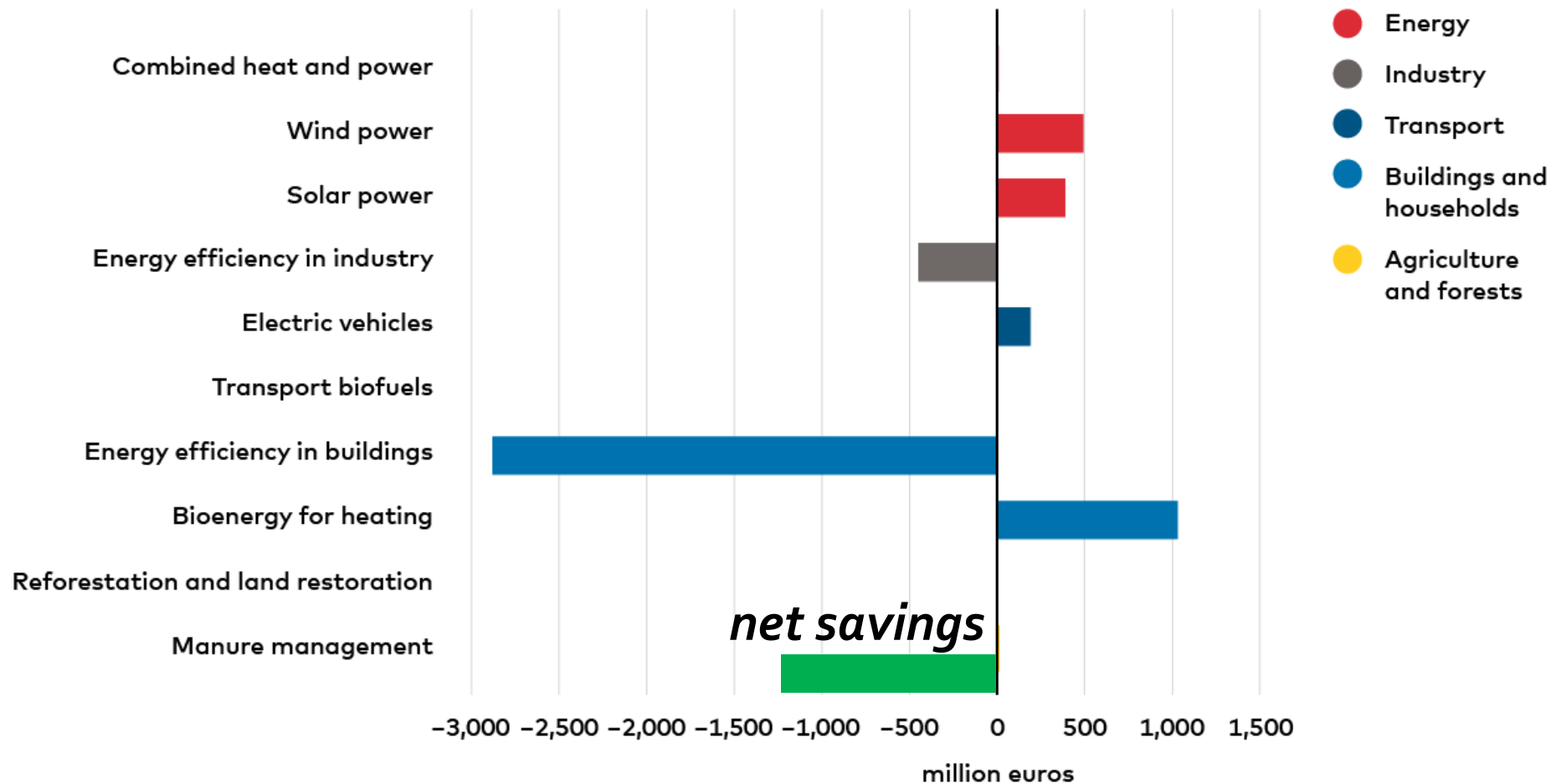
Rough estimates of scale-up costs



Net costs of implementing solutions in the five target countries in 2030, taking into account both costs and savings over time



Rough estimates of scale-up costs



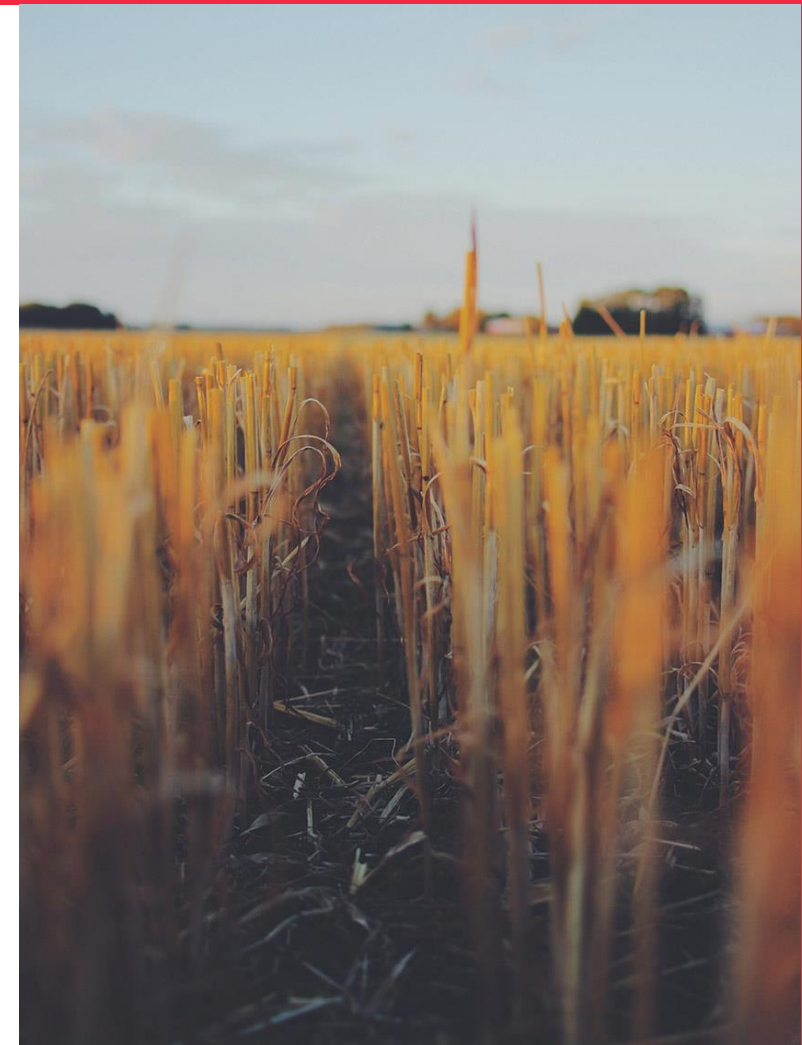
Net costs of implementing solutions in the five target countries in 2030, taking into account both costs and savings over time



Solutions provide benefits to people and the environment

Solutions provide a range of other benefits to people and the environment (co-benefits), such as:

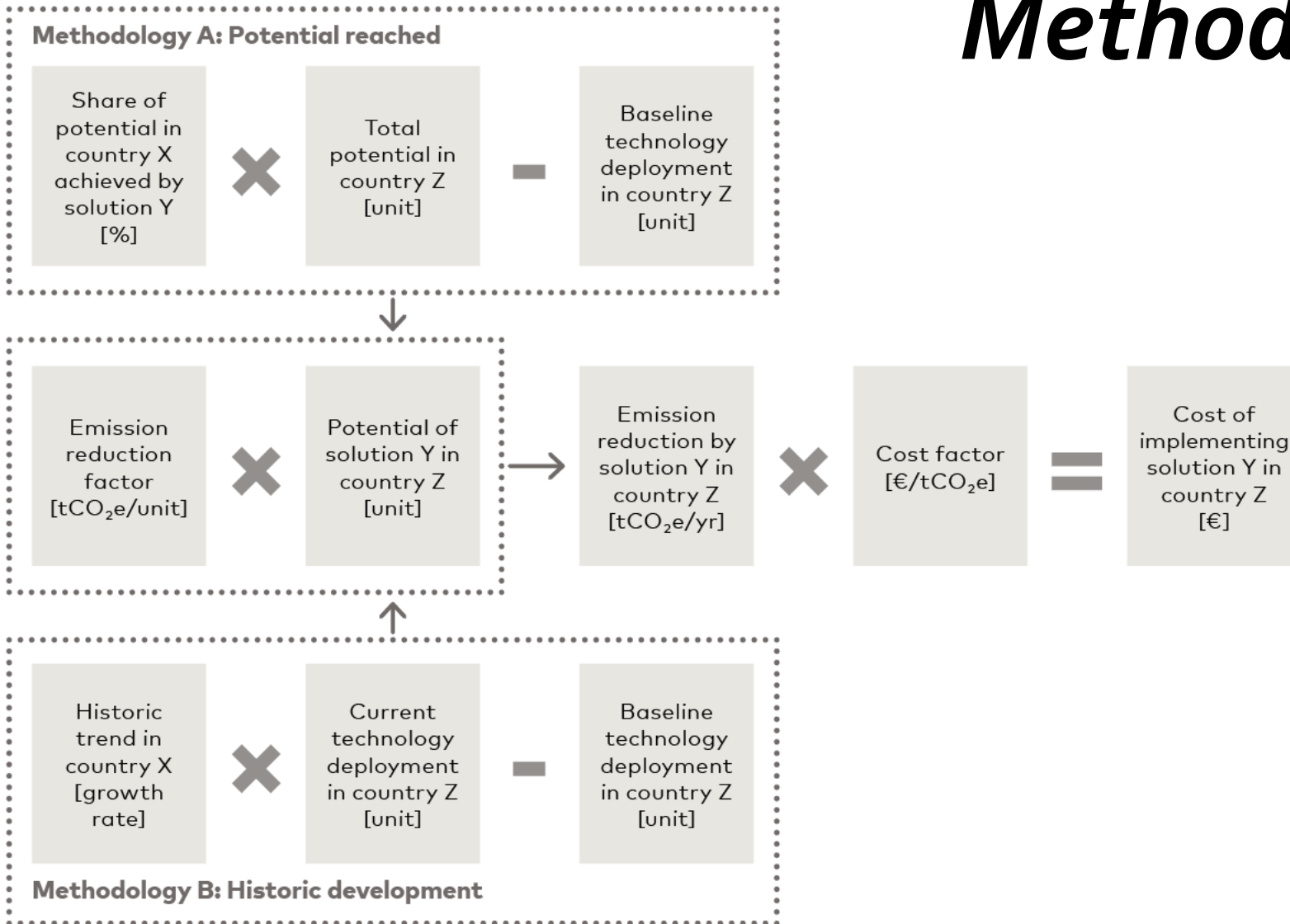
- cutting air pollution and related health impacts;
- reducing energy imports and improving energy security;
- creating or retaining jobs;
- increasing or maintaining ecosystem services;
- providing new income streams and tax revenue



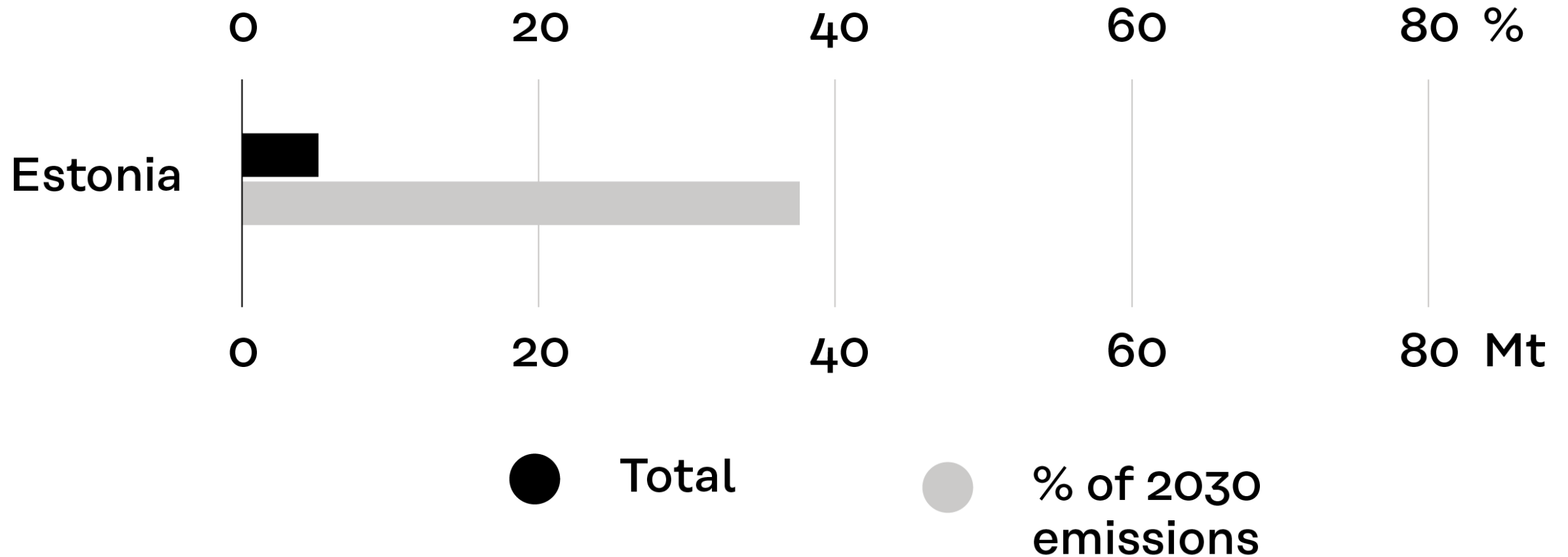
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Methodology in short



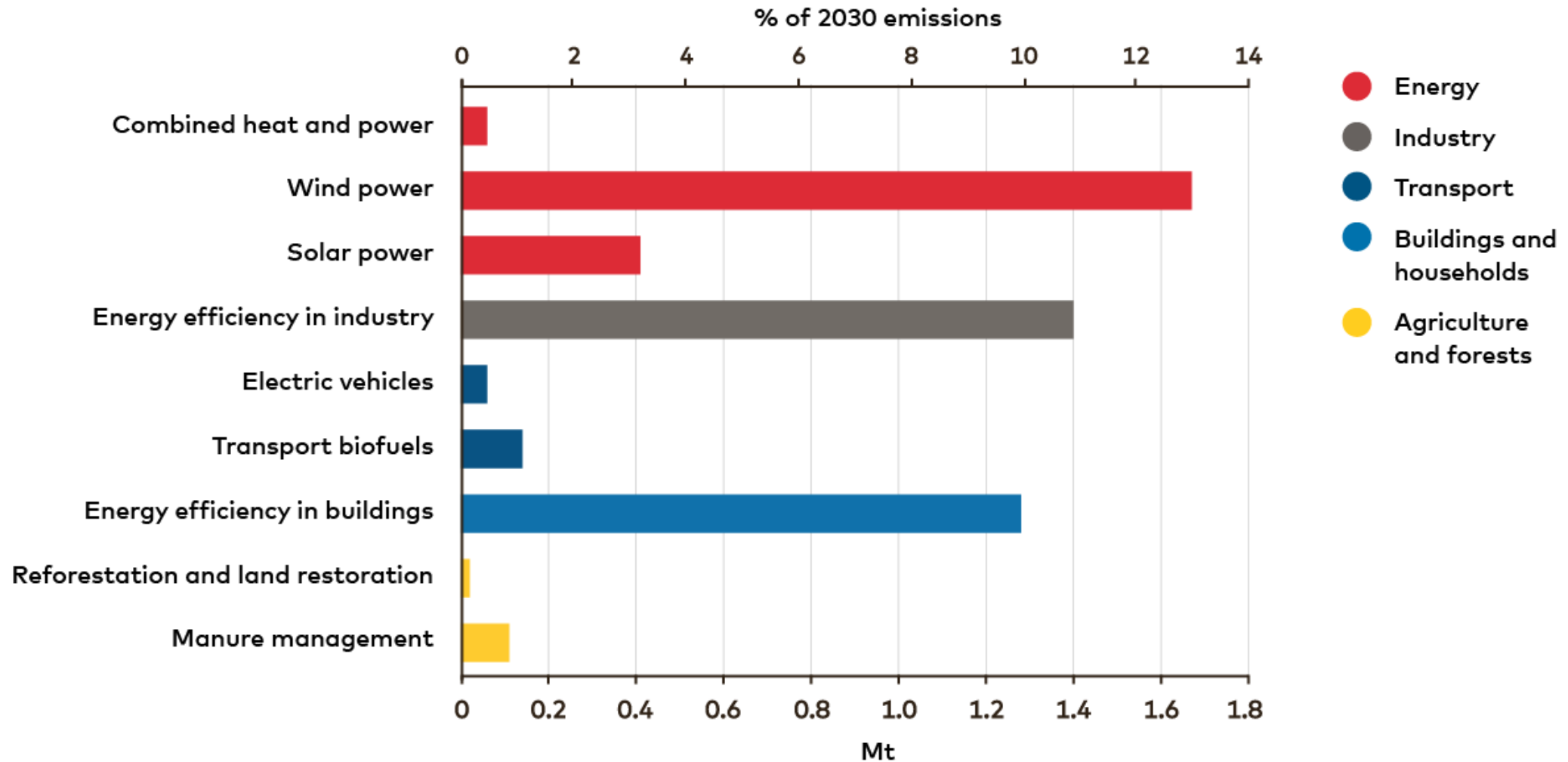
Estonia



Additional emission reduction potential of scaling up the solutions when overlap is not accounted for



Estonia



Additional emission reduction potential of scaling up the solutions when overlap is not accounted for



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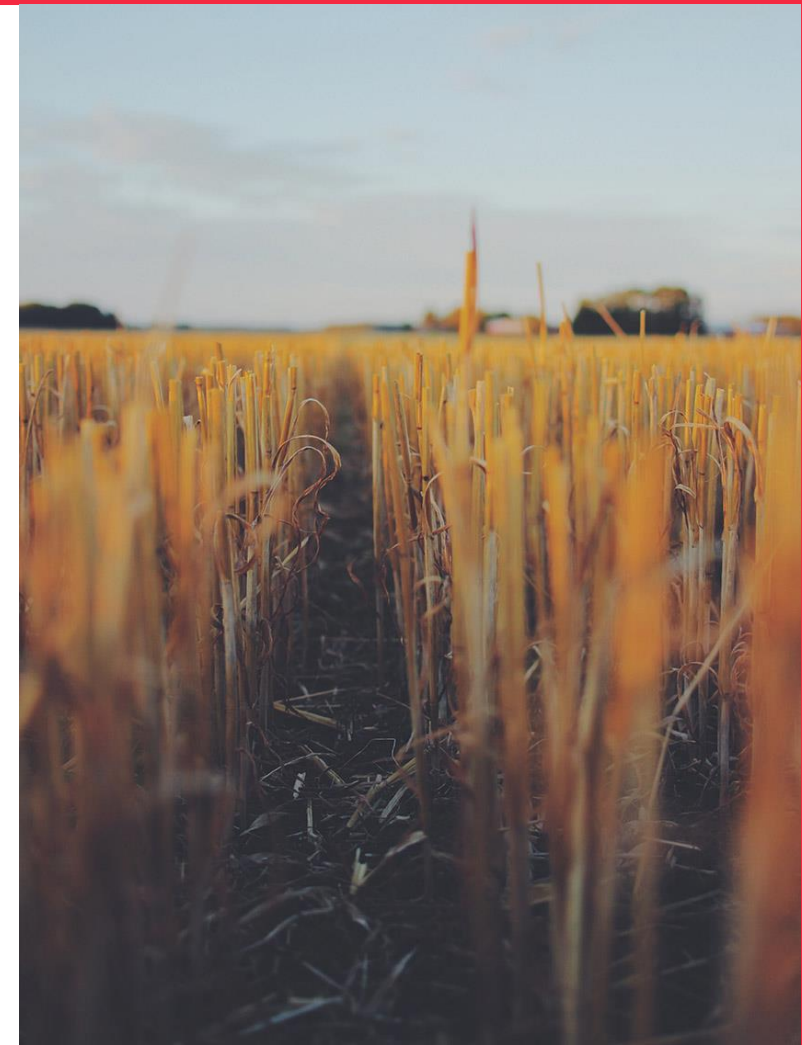
*From analysis to action:
how to use the results*

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Policies needed to seize the scale-up potential

- Scaling up existing climate solutions is feasible, affordable and attractive
- Implementation is held back by various barriers
- Learning from the countries that have already deployed the solutions helps in removing barriers
- Green to Scale includes policy recommendations on how to deploy the solutions in the target countries
- General recommendations include e.g. setting ambitious targets, strengthening carbon pricing, removing harmful subsidies, introducing targeted support measures and enforcing existing regulations

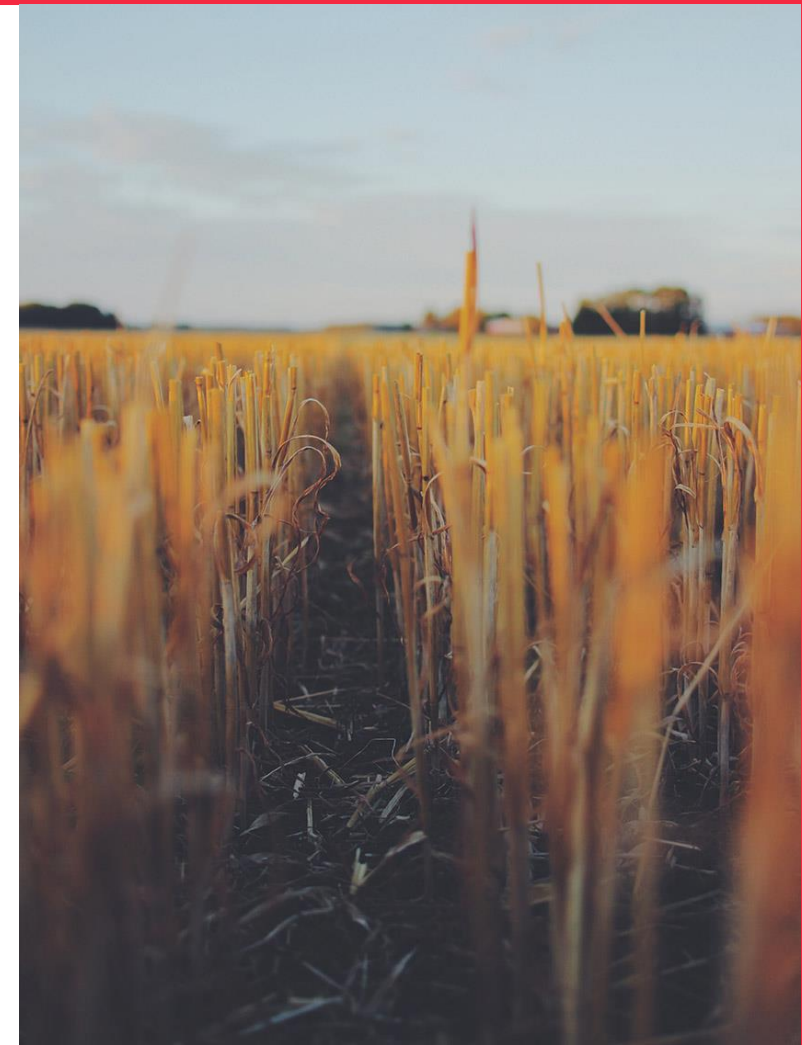


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Key policy decisions for Estonia

- Clear goals and incentive framework for wind, solar and combined heat and power production to keep investment conditions stable
- Guidance, training activities and financial incentives for energy efficiency in housing and industry
- Clear goals, financial incentives and regulatory framework for electric cars and biofuels
- Instruments to tackle emissions from agriculture and forestry



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What next

- Results released at national events
 - Tallinn 30 April
 - Vilnius 29 May
 - Riga 30 May
 - Warsaw 6 June (tentative)
 - Kiev TBD
- Presentations at the Clean Energy and Mission Innovation Ministerial in Copenhagen and Malmö in May 2018
- Results for Kenya and Ethiopia released in May
- **Interested? We are open for co-operation!**



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Thank you
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