

## Master Thesis idea: Method for assessing GHG impact of climate actions

Do you want to take part in developing a sustainable future in collaboration with experienced researchers in a professional and friendly environment? We at CIT Renergy are looking for ambitious and driven students who are interested in sustainable development and efficient use of energy and resources.

### Background

Municipalities has an important role for contributing to fulfilment of national climate targets and combatting climate change. They affect their own activities, but also influence the people living in the municipality. Municipalities' activities span over wide areas, so there is a need to understand which activities give the most value in terms of CO<sub>2</sub> abatement per invested krona. This thesis work aims at developing a methodology for evaluating a large number of actions to determine which set of actions that give largest abatement effect. The method should also be able to align results with scientific concepts such as e.g science based targets and SDG's.

### Scope

This **master thesis idea will be further developed** together with researchers at Chalmers, but will in preliminary terms include:

- Understanding of the principles for evaluation of the global effects from climate measures and of the totalmetodiken<sup>1</sup> concept
- Developing the scope of the study
- Developing a method for evaluation of climate measures in municipalities, based on existing evaluation frameworks and previous analyses.
- Evaluate how the method could support scenarios set up by municipalities in support of SDG's, planetary boundaries concept or Science based targets concepts.
- Demonstrate the method for a case
- Interpretation of the results
- Presenting the findings to internal and possibly external audiences

### Your contribution

We are looking for one or two students with a good understanding of environmental systems analyses and a strong interest in environmental sustainability. More details about desired competence profile will be added at a later stage. Since the work will require contacts with Swedish municipalities, good knowledge of Swedish is an advantage.

### Want to contribute to a sustainable future? Apply here!

The thesis work will be supervised by CIT Renergy, together with not yet specified researchers at Chalmers. To apply for the thesis project please send us your CV and a short introduction letter (100 -200 words) to [ingrid.nystrom@chalmersindustriteknik.se](mailto:ingrid.nystrom@chalmersindustriteknik.se).

If you have any further questions, don't hesitate to reach out to us!

### ***CIT Renergy - Propelling society to a more energy efficient future***

*CIT Renergy is a subsidiary company of Chalmers Industriteknik, and thus part of the Chalmers family. Our unique and diverse competences allow us to offer our clients energy and resource efficiency solutions within the areas of built environment, society, industry, and indoor climate.*

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<sup>1</sup> Totalmetodiken is a method to group and evaluate performance of energy saving measures.