

Geographical resolution of LCI data on electricity production

LCM Luxembourg

4 September 2017

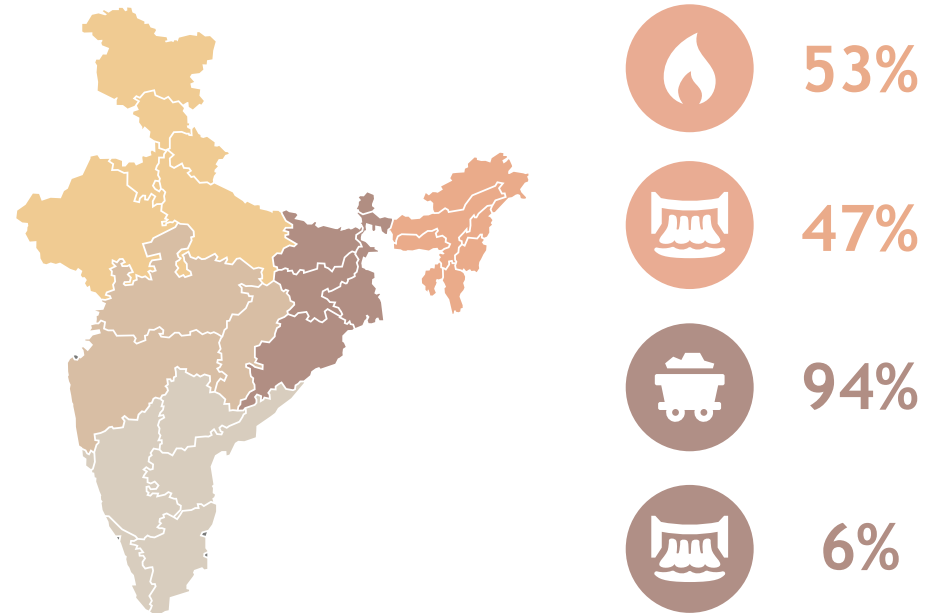
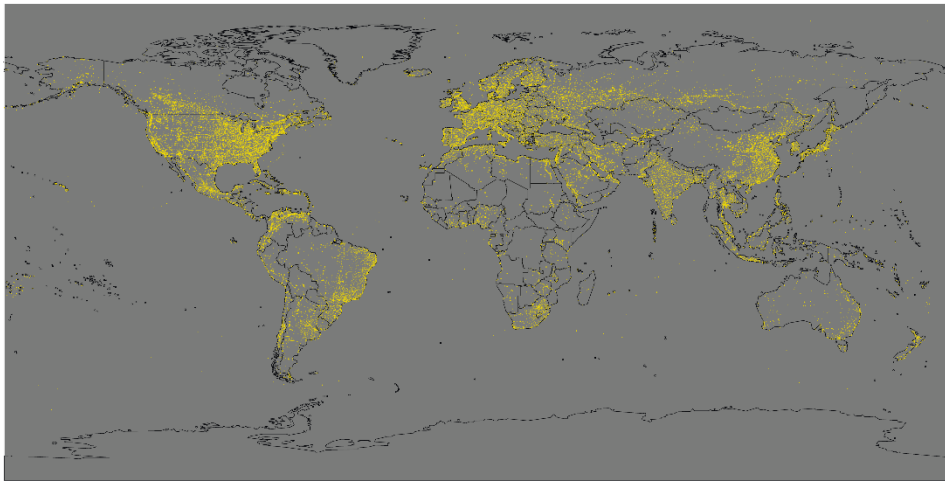
Lucia Valsasina

Data Analyst

ecoinvent

Introduction and objectives

Large countries can show major differences in production mixes

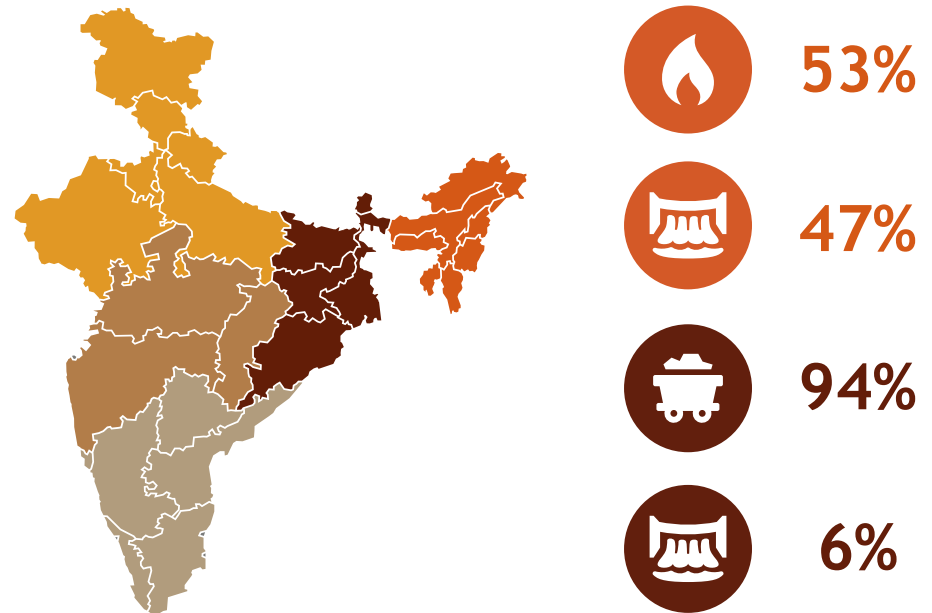
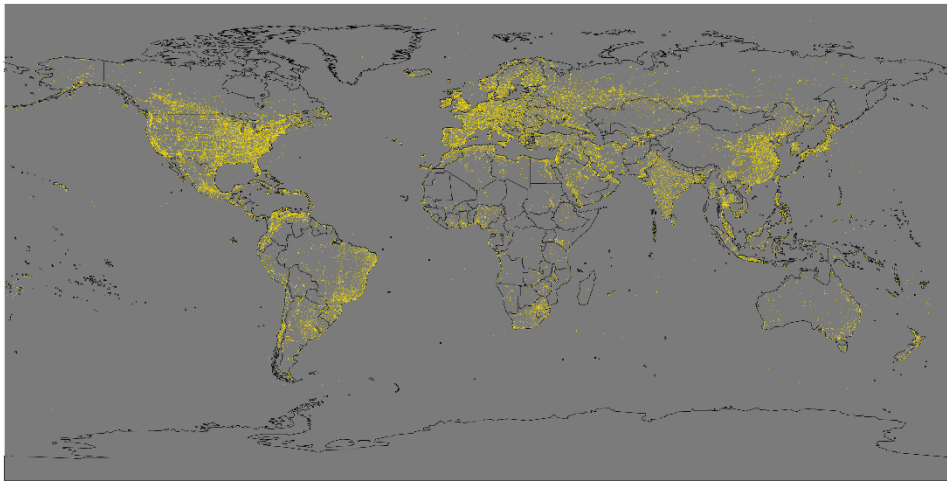


Objectives

- Is a country level resolution too coarse for electricity?
- How do environmental impacts change with resolution?

Introduction and objectives

Large countries can show major differences in production mixes

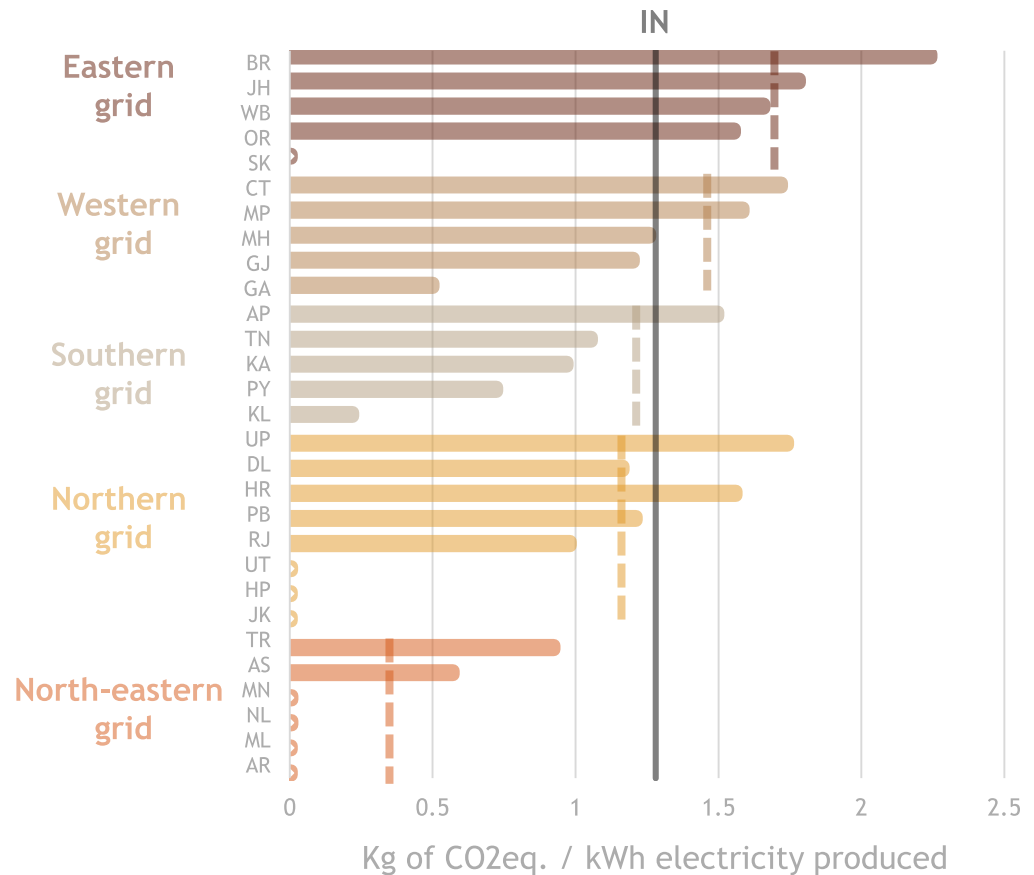
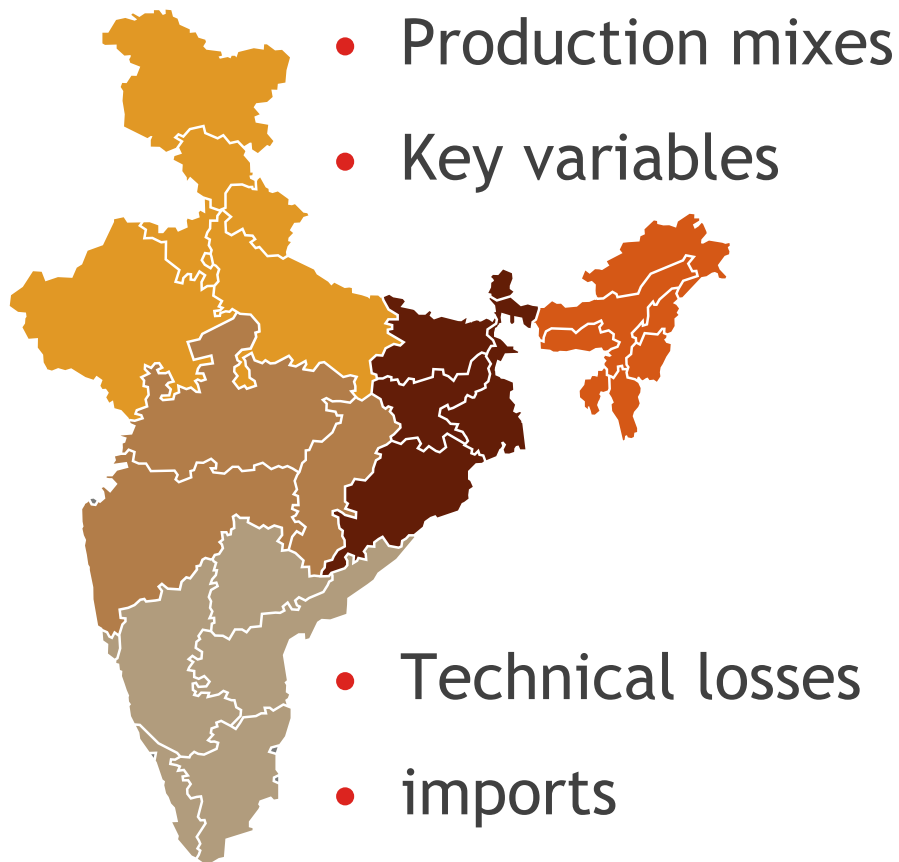


Objectives

- Is a country level resolution too coarse for electricity?
- How do environmental impacts change with resolution?

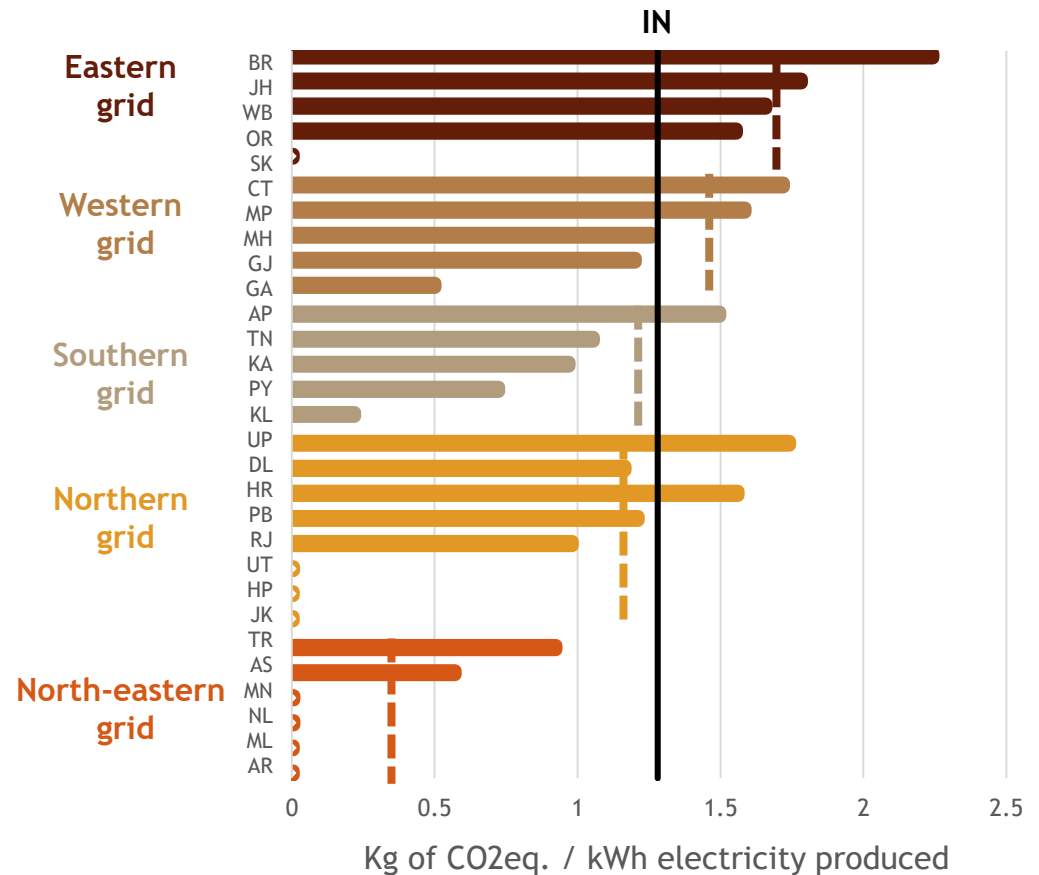
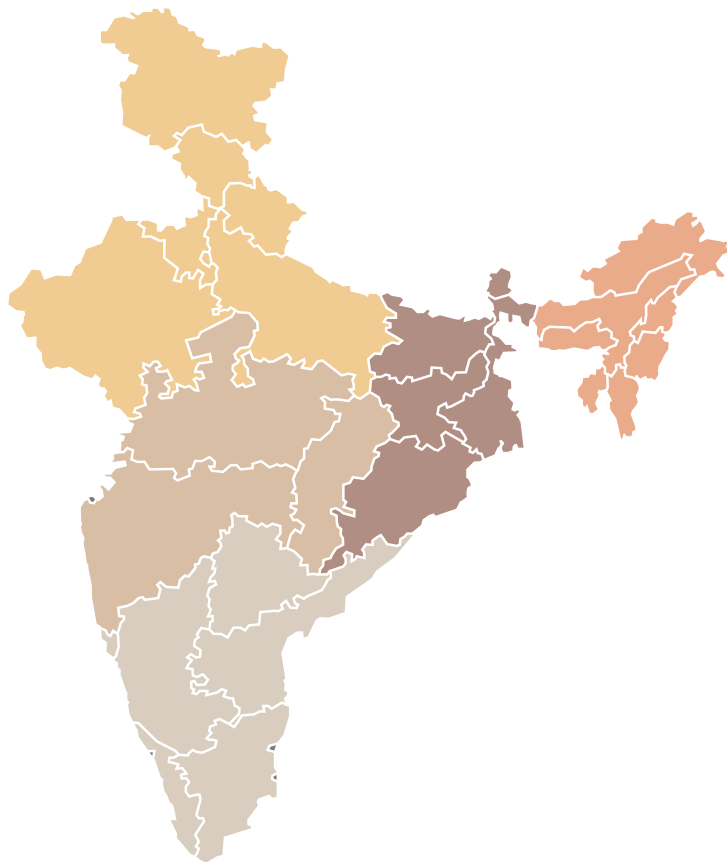
Material, methods and results

Materials and methods:



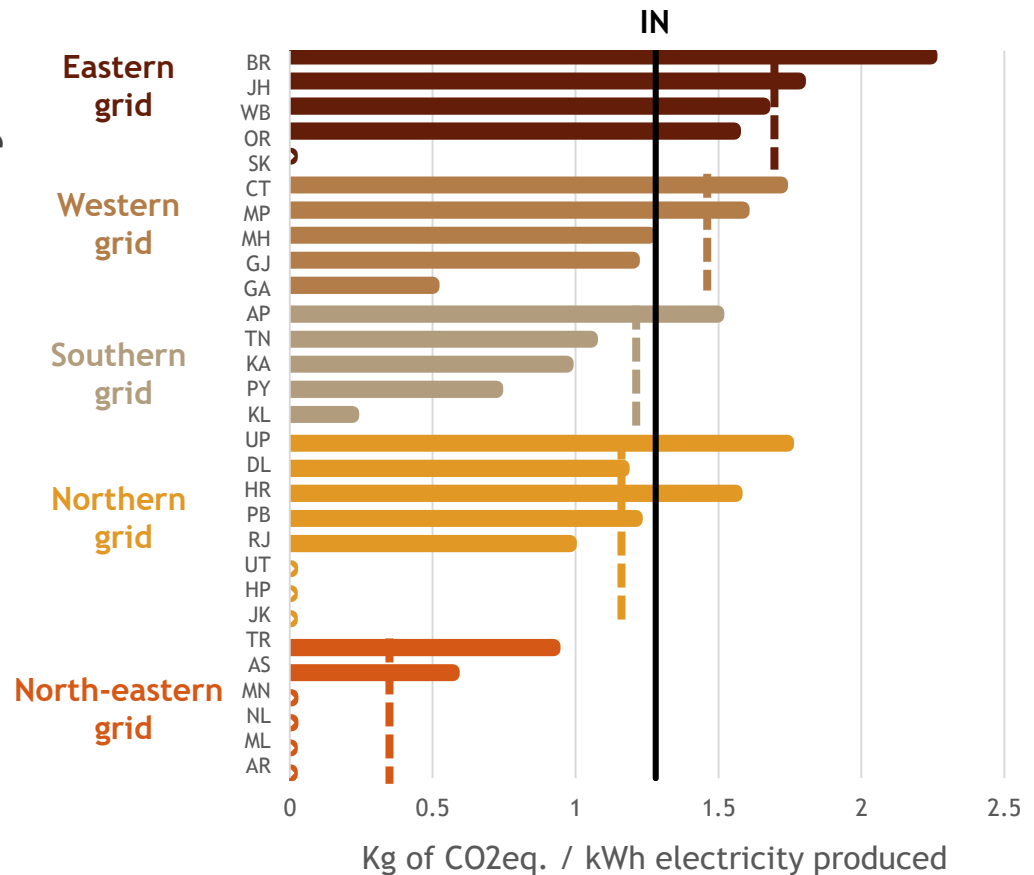
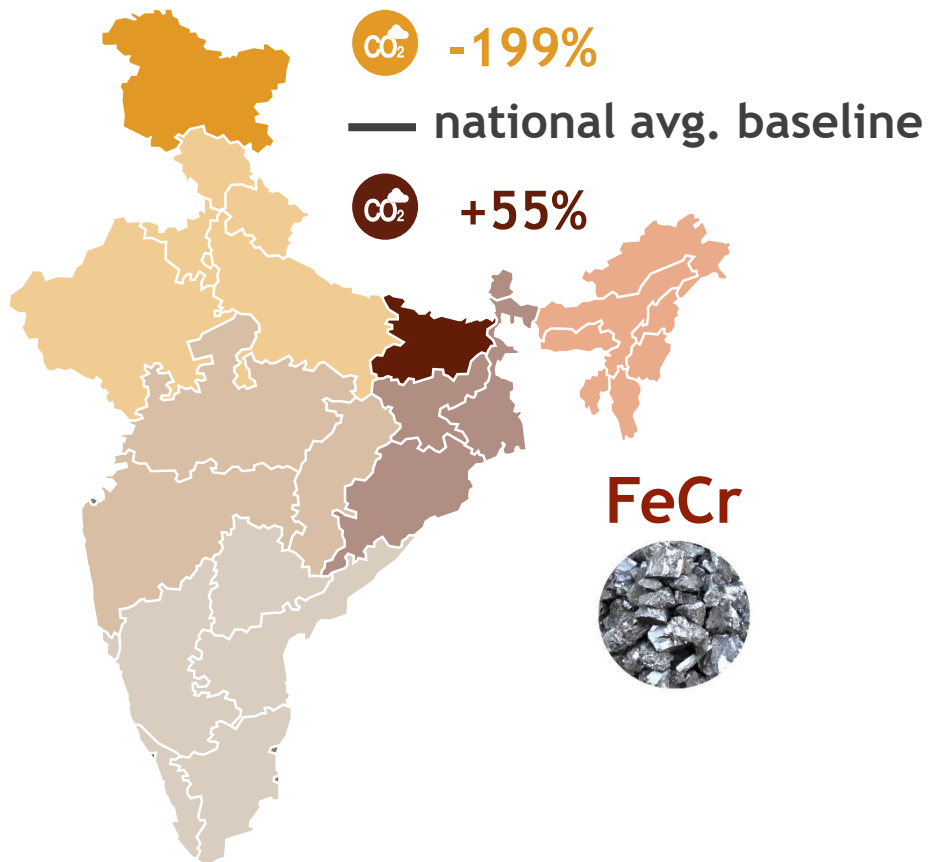
Material, methods and results

Results: average of grids ~ national average



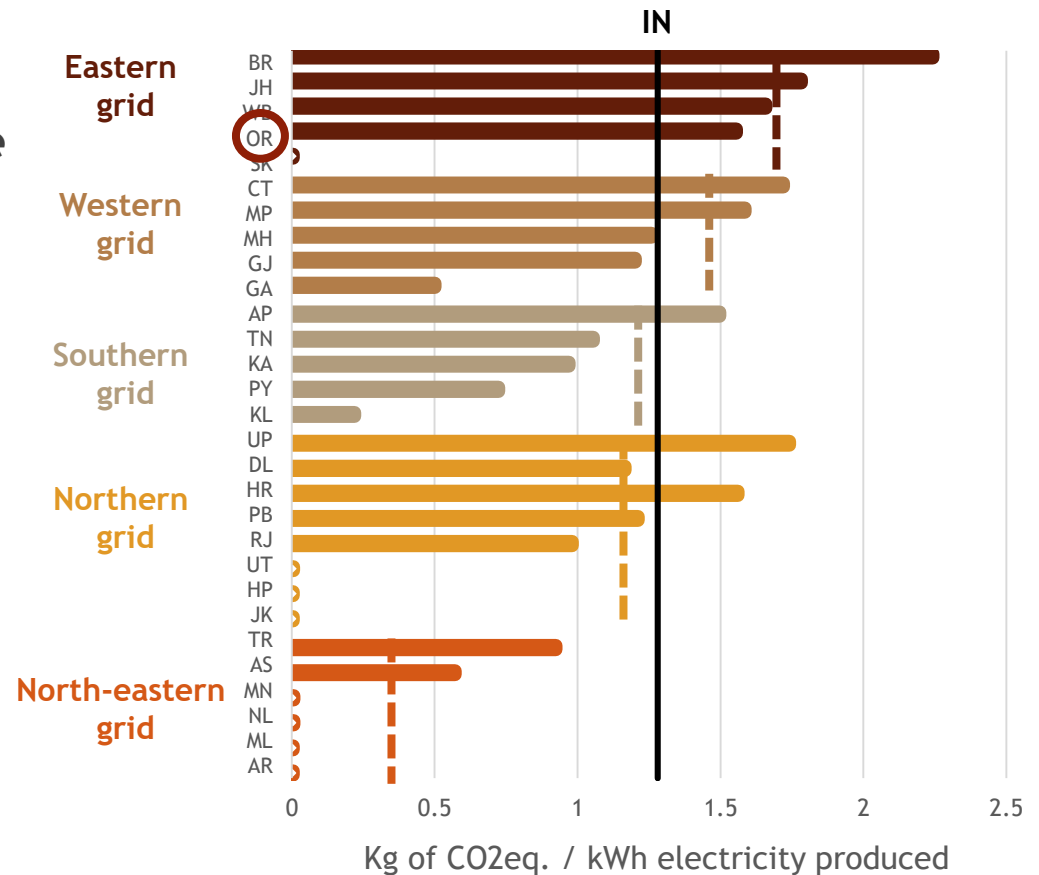
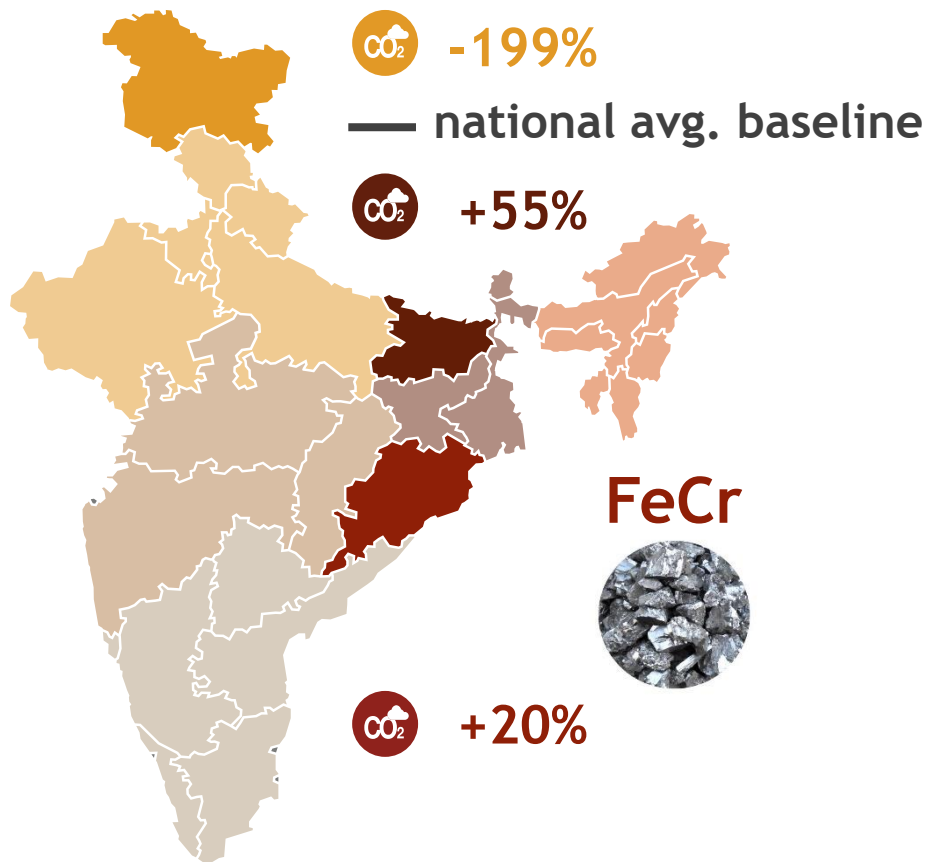
Material, methods and results

Results: dramatic difference amongst states



Material, methods and results

Results: ferrochromium in theory and in reality



8