

Technical Helpdesk for National LCA Databases

Training on Data Acquisition and Dataset Development Part 3 - Secondary data acquisition

Content from Andreas Ciroth, GreenDelta and Amir Safaei, ecoinvent

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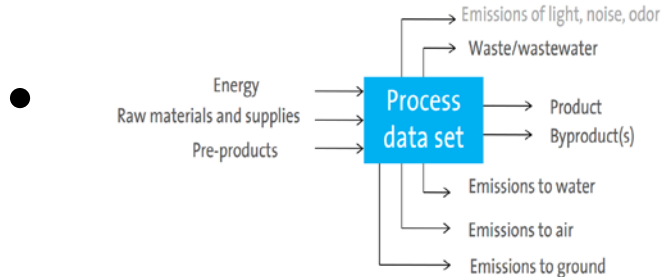
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Secondary data acquisition

Objective and Background

- In the second practical exercise, we will create datasets from secondary data, i.e. from data already published.



- What are secondary sources that can be used here?

Secondary data acquisition

Where are secondary data available?

- Public, official statistics
- Wikipedia
- Company websites
- Journal papers
- Chemical engineering books
- Other LCA databases and datasets (!)
- ...

Secondary data acquisition

Secondary data, example



Sri Lanka Energy Balance

Compiled by Sri Lanka Sustainable Energy Authority

Home	Electricity	Petroleum Products	Biomass	Energy Balance	Economic Indicators	Grid Emission	Conversion Factors	Coal
Home	Electricity Data							
	Overview							
	Electricity Generation							
	Own Use in Power Plants and Network Losses							
	Fuel Consumption in Power Plants							
	Electricity Sales by Sector							
	Capacities of Power Plants							
	Electricity Tariff							
	Customers, Employees and Finances							
	System Load Profile							
	Petroleum Data							
	Biomass Data							
	Energy Balance							
	Energy-Econ Indicators							
	Grid Emission Factor							
	Conversion Factors							
	Coal							

Gross Electricity Generation (GWh)

Select Year to [Update Table](#) [Export to Excel](#)

Links

Gross Generation of Thermal Power Stations
Gross Generation of Hydro Power Stations

CEB-Hydro (GWh)							
	2011	2012	2013	2014	2015		
Major Hydro	3,906.96	2,684.17	5,936.61	3,618.83	4,825.65		
Small Hydro	65.72	42.55	73.49	30.89	78.76		
Sub Total Hydro	3,972.67	2,726.72	6,010.10	3,649.72	4,904.41		

CEB Non-Conventional (GWh)							
	2011	2012	2013	2014	2015		
CEB Wind	2.66	2.32	2.32	2.13	1.07		
Sub Total Non Conventional	2.66	2.32	2.32	2.13	1.07		

CEB-Thermal (GWh)							
	2011	2012	2013	2014	2015		
Steam - Fuel Oil	0.00	0.00	0.00	0.00	0.00		
Steam - Coal	1,027.62	1,399.12	1,465.39	3,505.55	4,447.21		
Steam - Diesel	10.49	4.61	3.98	19.40	9.97		
Sub Total Steam	1,038.11	1,403.74	1,469.37	3,524.95	4,457.18		
Diesel Engine - Residual Oil	903.37	921.55	559.81	647.10	271.93		
Diesel Engine - Fuel Oil	0.00	0.00	111.48	95.69	87.94		
Diesel Engine - Diesel Oil	14.19	9.42	27.26	9.31	22.48		
Sub Total Diesel Engines	917.56	930.97	698.55	752.09	382.34		
Gas Turbines - Diesel Oil	320.33	218.20	17.58	241.88	25.07		
Gas Turbines - Naptha	0.00	0.00	0.00	0.00	0.00		
Sub Total Gas Turbines	320.33	218.20	17.58	241.88	25.07		
Combined Cycle - Diesel Oil	95.90	550.66	221.75	284.64	119.54		
Combined Cycle - Naptha	159.78	329.05	388.53	465.54	540.26		
Sub Total Combined Cycle	255.68	879.71	610.27	750.18	659.80		

CEB - Sub Total (GWh)							
	2011	2012	2013	2014	2015		
Sub Total CEB Power plants	6,507.02	6,161.66	8,808.20	8,920.95	10,429.87		

View Diagrams

Gross Electricity Generation - CEB Power Plants (GWh)

<http://www.info.energy.gov.lk/>

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Possible use of this information when creating a data set?

<http://www.info.energy.gov.lk/>

Secondary data acquisition

Secondary data – challenges, issues

- Quite often, data does not fully fit to what you need
 - Incomplete
 - Product missing
 - Only some emissions reported, or only composition of products
 - Not fully fitting (slightly different product, location, time than needed)
- Source reliability

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→ Need attention and care, but great potential.
Typically, results are “patchwork datasets”

Secondary data acquisition

Secondary data – challenges, issues

Exercise:

- Creating a national grid electricity data set for Sri Lanka
 - Files: Data_2nd_Exercise.docx, 2nd_exercise_processes.xlsx
- See MS Excel workbook and hand-outs
- Would you agree to the mix?
- Would you agree to the proposed processes?
- Is something essential lacking (yes..really..what is it)? How would you acquire the missing bits?

For helpdesk assistance –

- **Become a Helpdesk member:**
 - To access the Helpdesk exchange space (or any other Clearinghouse area), you will need to create an account in the Clearinghouse (www.spcclearinghouse.org):
 - Toward the bottom of the homepage you will see a button labeled ‘Join the Community now’. Click on this link and open a form to allow you to create a login and profile.
 - Once logged in, you can modify or update your profile or explore the various SCP topic areas.
 - Go to ‘About’ and then to ‘Exchange Spaces’ where you will see Lifecycle Approaches in the drop down menu and one menu level below that is the Technical Helpdesk.
 - The Technical Helpdesk space will be available to any visitor, logged in or not. Without being logged in and joining the helpdesk space, any visitor can look at the various sections of the helpdesk space, but cannot contribute any content.
 - In order to become a member of the helpdesk space, on the homepage under the summary, is “Request space membership”. Click here, you will automatically be given rights of a members to contribute content, since it is a public group.
 - For your next login, you go directly to <http://spaces.spcclearinghouse.org/> and then choose the Technical Helpdesk space in the dropdown list.
- **Helpdesk Manager - Bruce Vigon, Consultant to SETAC,**
- **Helpdesk Coordinator – Kristina Bowers, UN Environment, Economy Division**