

Open Energy Modelling Initiative

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Overview:

- grass roots community of open energy modellers from universities and research institutions
- mainly Europe
- first meeting Berlin 18–19 September 2014
- email list created 4 October 2014 (2.6 years ago)
- draws upon an open source ethos

Channels / media / meetings:

- public mailing list (250 participants)
- internet forum
- collaborative wiki
- two-day academic workshops (6 to date, attracting 65+ people now)

STATUS : FOR DISCUSSION

Open modelling explosion

Since 2001 : zero to +47 projects and more coming ^{1,2}

Electricity and energy system models:

- first wave (**3**): 2001 balmoral,³ 2004 *deeco*,⁴ 2005 GnuAE
- second wave (+**3**): 2010 OSeMOSYS, 2012 TEMOA, NEMO
- as of 2017 (+**25**): Calliope, CREST, DESSTinEE, DIETER, Dispa-SET, Einstein, EMLab-Generation, EMMA, Energy Transition Model, EnergyPATHWAYS, ETEM, ficus, GENESYS, NEMO, oemof, OnSSET, pandapower, PowerMatcher, PyPSA, renpass, SIREN, StELMOD, SWITCH, URBS, WWS project

Transmission and distribution grid models:

- as of 2017 (**7**): DINGO, GridLAB-D, Hutcheon and Bialek dataset, OpenDSS, OpenGridMap, osmTGmod, SciGRID

Energy database projects:

- first wave (**4**): 2004 OpenStreetMap, 2009 OpenEI, 2011 Enipedia, 2011 reegle⁴
- as of 2017 (+**6**): Energy Research Data Portal for South Africa, energydata.info, Open Power System Data, open_eGo, OpenGridMap, Renewables.ninja

1 all dates and projects subject to confirmation

2 US government public domain models not counted

3 balmoral belatedly added an ISC open license in 2017

4 *deeco* now retired

5 reegle relaunched as a data platform in 2011