SciGRID – An Open Source Reference Model for the European Transmission Network

<u>Wided Medjroubi</u>, Carsten Matke, David Kleinhans 3rd Open Energy Modelling Initiative Workshop - London 2015 10. – 11.09.2015



EWE-Forschungszentrum für Energietechnologie e.V.







SciGRID



What is SciGRID?

» An Open Source (Reference) Model for the (European) Transmission Network

Why?

» Improve Data/Model accessibility in transmission network modelling

How?

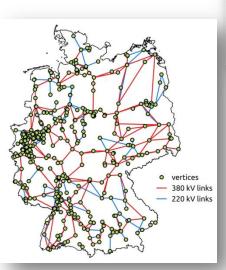
3 steps: Extraction & Filtering, Abstraction, Export

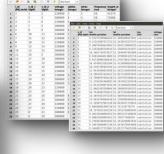
Funding?

» BMWi, BMU and BMBF

Time Line?

- » Project start (Oct 2014)
- » First model released (June 2015)
- » Currently: Update process
- » Benchmarking Conference (2017)

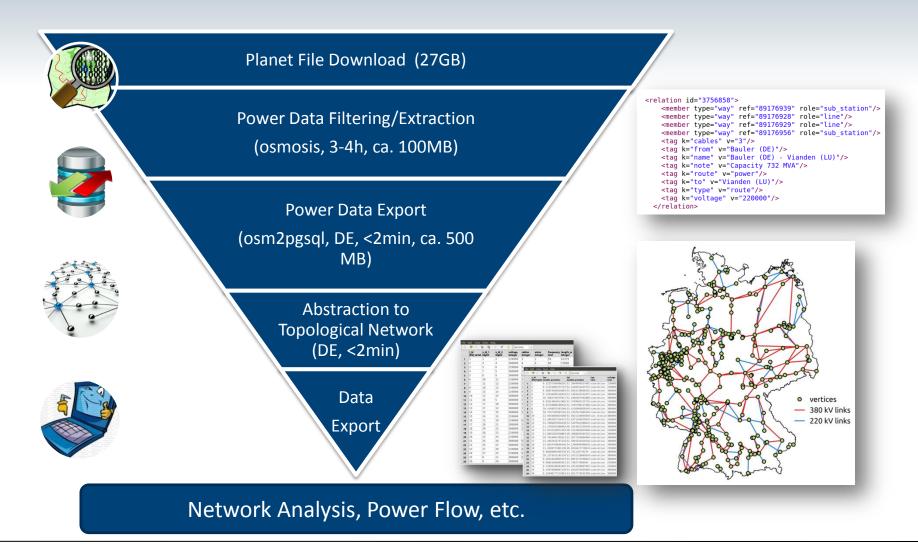




SciGRID Structure



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SciGRID

General information
Motivation and approach
Data sources and tools
Downloads
Publications
News and events
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Thank you for your attention. more info @ www.scigrid.de

SciGRID - Theme based on Sundown by orderedlist

Latest news:

Power Relations in OpenStreetMap

Thu 02 July 2015 | -- (permalink)

The transmission power data used as input in the **SciGRID** model is based on the data available in *OpenStreatMap*. The "power" data is represented by three data types, called **data primitives**, and they are defined in the context of power transmission as follows:

· nodes: defining points in space, representing transmission ...

read more...

First Release of the SciGRID Transmission Network Model

Mon 15 June 2015 | -- (permalink)

We are very pleased to announce the first release of the "abstracted" **SciGRID Transmission Network Model**. The **SciGRID** model is released as version V0.1 and is available for the

German transmission network. It can be downloaded **here**.

Version 0.1 of the SciGRID model includes:

The SciGRID model code

read more...

First SciGRID Workshop

Fri 15 May 2015 | -- (permalink)

The **first SciGRID Workshop** was organized at NEXT ENERGY in Oldenburg on the 20th of April 2015. The workshop addressed experts in energy system and transmission system modelling. The **SciGRID** project was presented to around 20 participants from different research institutions and universities. A live demo of the first version ...