

The Integrated MARKAL-EFOM system (TIMES) is an evolved version of MARKAL and of the Energy Flow Optimisation Model (EFOM) with new functions and flexibilities, also developed within the ETSAP. The main advantage that TIMES has regarding its predecessors is its flexibility once it is possible to sub-divide the year in several time periods ...

Zhang et al. (2022) constructed the Integrated MARKAL-EFOM System model of China to elaborate and compare the technology options for decarbonizing the energy system and the synergistic effects on ...

Veda2.0 is a data handling system for The Integrated MARKAL-EFOM System (TIMES) - a bottom-up optimization model for energy-environment systems. We are in the process of enabling support for other models like OSeMOSYS and TEMOA. It is a Windows application (C# /PostgreSQL). We don't have many ...

merging the merits of MARKAL with some of the capabilities of EFOM (the Energy Flow Optimization Model, a sister model to MARKAL that was used previously in Europe) to realize TIMES (The Integrated MARKAL-EFOM System). TIMES benefits from the experience gained applying MARKAL to real world problems, and meets the expanding need for a detailed

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The Integrated MARKAL-EFOM System: IEA-ETSAP: C (D) GAMS + Solver (VEDA) [195], [196], [197] TIMES-Norway: 69: As TIMES: IFE/NVE: j: GAMS, CPLEX/XPRESS [24], [198], [199] ... It consists of a toolbox where several energy system modelling approaches can be integrated as single libraries. These libraries can then be used in so-called applications ...

China's energy system requires a thorough transformation to achieve carbon neutrality. Here, leveraging the highly acclaimed The Integrated MARKAL-EFOM System model of China (China TIMES) that takes energy, the environment, and the economy into consideration, four carbon-neutral scenarios are proposed and compared for different emission peak times ...

The UKTM model is based on the model generator, The Integrated MARKAL-EFOM System, which is developed and maintained by the Energy Technology Systems Analysis Program of the International Energy Agency. 45 - 49 The UKTM explicitly represents the technology and fuel choices across different sectors under decarbonisation objectives for the UK ...

