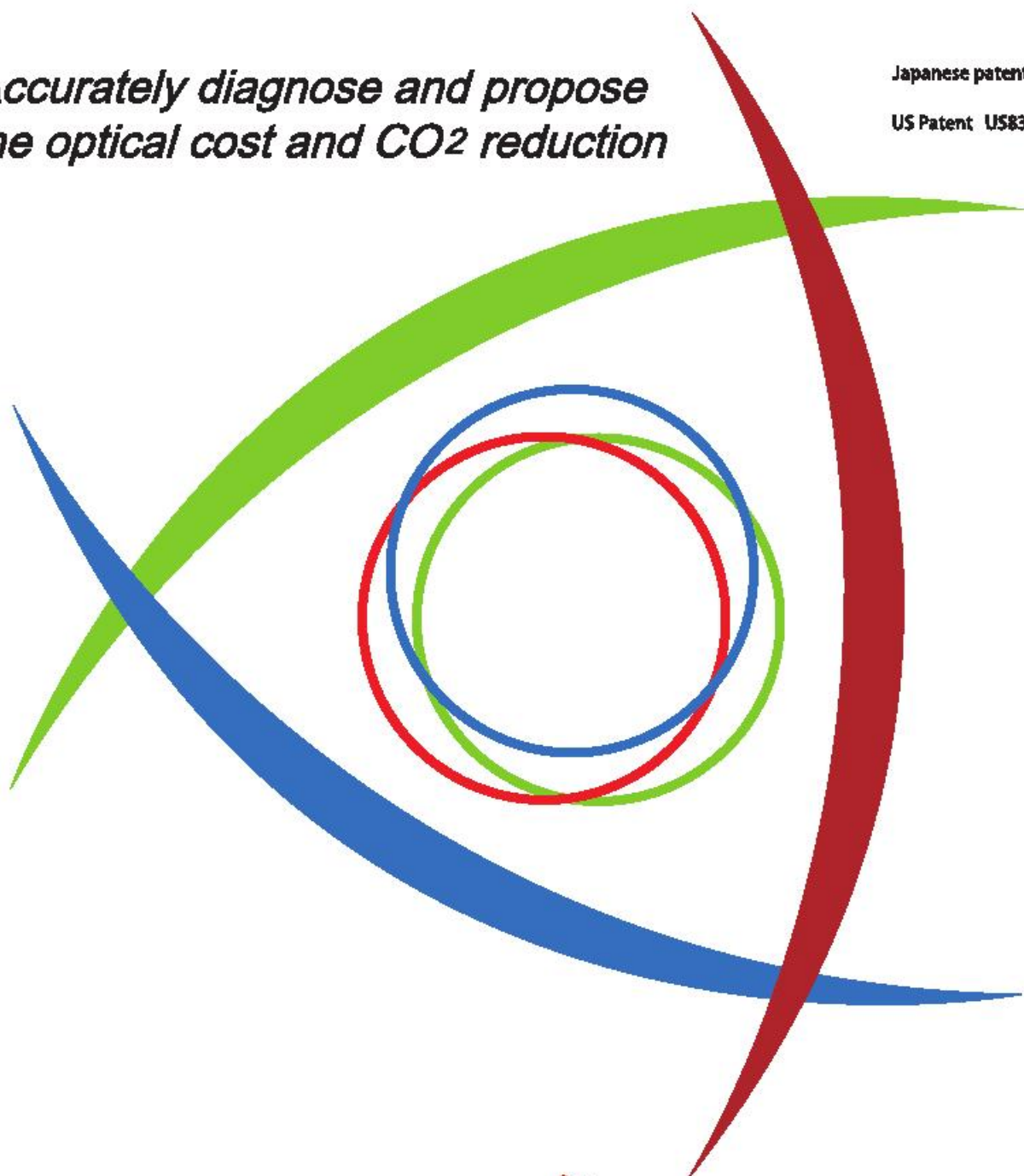


Energy Simulation Software
Enepro21 **WE**
World Edition

*Accurately diagnose and propose
the optimal cost and CO2 reduction*

Japanese patent 4564594
6118973
US Patent US8396605 B2



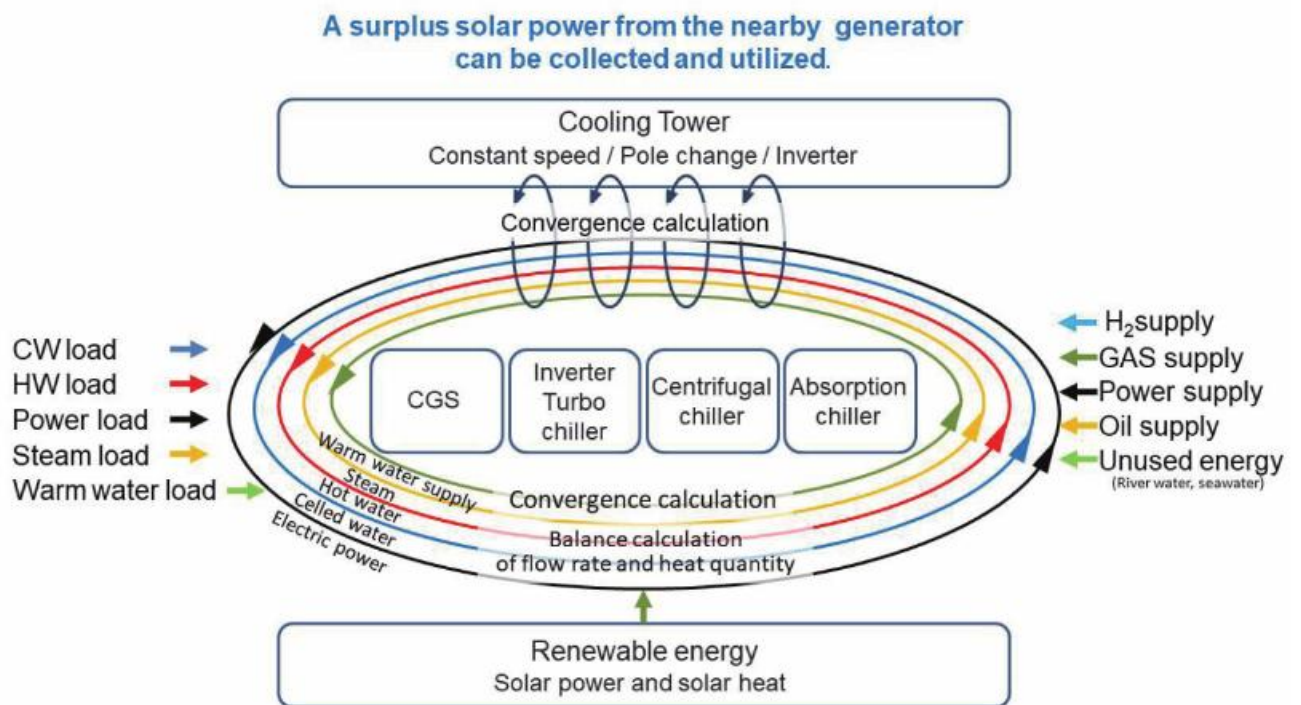
E.I. Engineering Co., Ltd.

Features of Enepro21 WE

1. Accurately reproduce existing HVAC

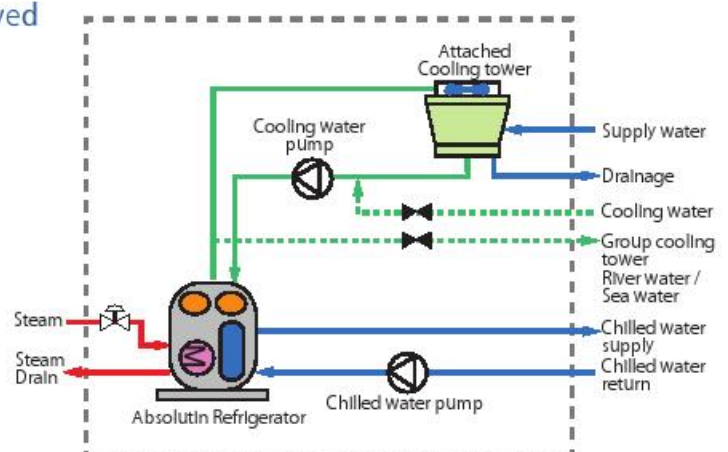
The annual operation record of HVAC can be reproduced with high accuracy, and the difference between the energy consumption by simulation and the energy consumption of actual HVAC can be within an error range of 1 to 2%. This can be achieved because the balance calculation of power, heat and flow rate can accurately reproduce the operating state.

In the balance calculation, each energy balance influences each other's equipment, so the balance point is found by the iterative calculation of each balance and the whole iterative calculation through all the balances at the same time.



2. Can be easily used by anyone involved in energy

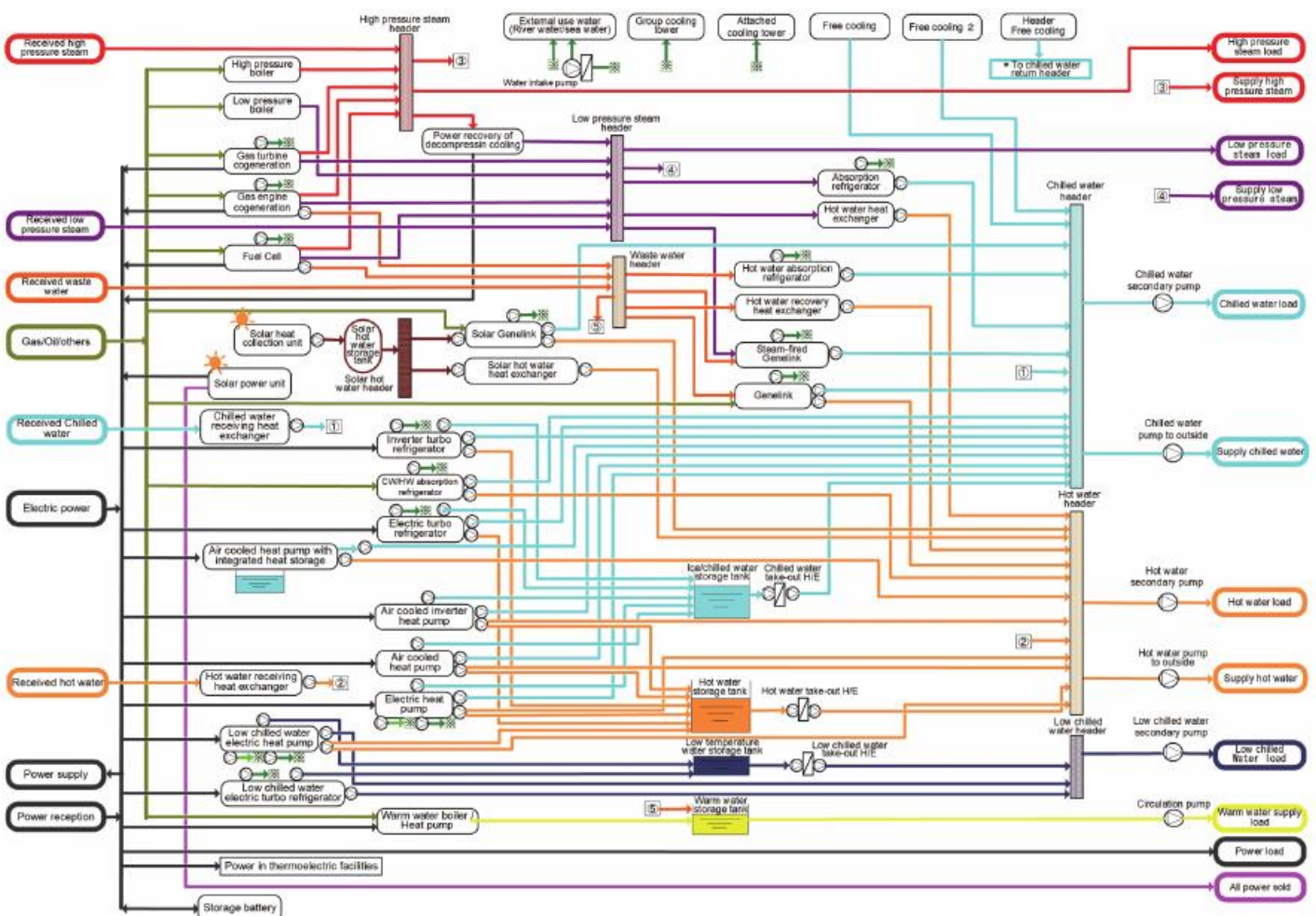
Since the model of each equipment is grouped by function, there is no need to connect related equipment. For example, in the case of a chilled water unit, the chilled water pump, cooling water pump, and attached cooling tower are set as soon as the main chiller is set.



3. Easily build a wide range of HVAC systems

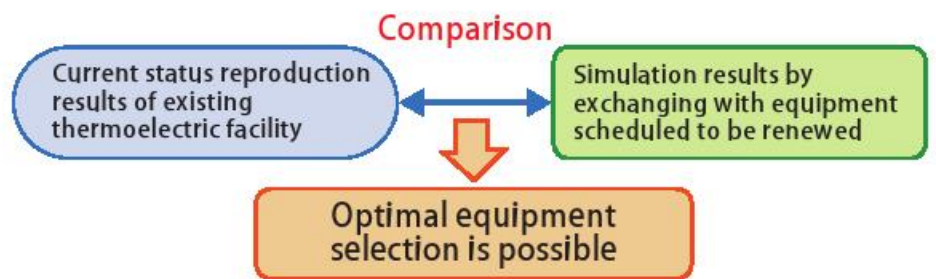
You can easily build an optimal system for thermoelectric load by combining equipment with a general-purpose system flow.

Standard flow Enepro21 World Edition



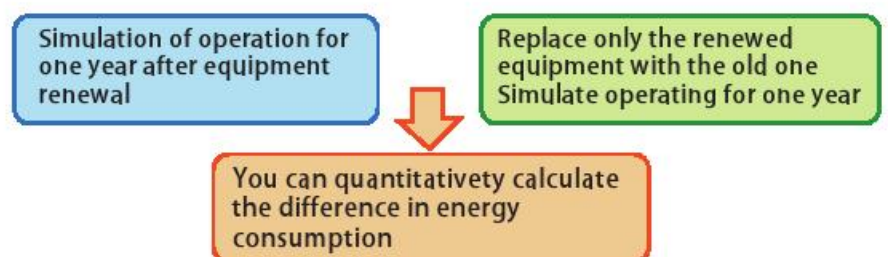
How to use Enepro21 WE

- (1) Cost and CO2 can be reduced by 10% to 20% by reexamining the operation method of the equipment and adjusting the operation parameters.
- (2) Considering renewal of HVAC



Verification after HVCA renewal

Since the cost and CO2 reduction can be calculated quantitatively, it is possible to deal with contracts that require a guarantee of the amount of reduction. This software is indispensable for CO2 market transactions.



■ Enepro21 learning function by video

You can easily learn Enepro21 by using the operation videos using examples.

1. Video for those who are using Enepro21 for the first time
2. Basics: 16 thematic training videos
 - ① Program Configuration and Project File
 - ② Example of Creating Thermoelectric Loads based on the basic unit method
 - ③ Example of creating a thermoelectric load based on actual measurement data (Excel)
 - ④ Import / correction / activation of thermoelectric load data ⑤ Setting basic conditions
 - ⑥ Creating System Configuration and Use of Equipment Performance Data Collection
 - ⑦ Pump Power Calculation and Control Method Setting ⑧ Model Setting for a System with CGS
 - ⑨ Device model setting of system with heat storage
 - ⑩ Operation plan settings and convenient functions / simple menu
 - ⑪ Calculation execution and output of a system with CGS
 - ⑫ Calculation execution and output of a system with heat storage
 - ⑬ Example of comparative study of operating methods for systems with CGS
 - ⑭ Secondary pump system settings ⑮ Summary of convenient functions
 - ⑯ Basic Concept of Chilled Water Balance
3. Advanced version: Video of simulation example incorporating Know-How of EIE
 - ① Settings of Solar Power Generation System
 - ② Settings of Solar Heat Utilization System
 - ③ Settings of Tandem Type Turbo Chiller ④ Settings of Free Cooling System

Etc.

■ Consulting by case file



■ A variety of support and services

Various readable data
Case file support

Enriched sample cases
Web support

Support Movie on Youtube
Email support

■ Enepro21 WE operating environment

Basic OS Microsoft Windows 10 / 10 Pro / 8.1 / 8.1 Pro

CPU intel Pentium4 2.8GHz or more recommended

Memory 4GB or more for Windows 10/ 8.1,

Hard disk Free space of 30 MB or more Monitor: Resolution 1440 X 900 or more recommended

USB terminal Connector TypeA, USB 2.0 or higher

Software: Microsoft Excel 2010 or later Installed

Browser: Microsoft Edge recommended

☆ If you output the form in Microsoft Excel format, you can freely edit and print the format in Microsoft Excel

☆ Microsoft®R, Windows10, Windows 8.1 Microsoft Excel are registered trademarks of Microsoft Corporation In the United States



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