

## MODULAR STRUCTURE

We offer INIPRO in three different variants: Basic, Professional and Ultimate. The following table shows, which variant is the right one for your tasks.

★ Basic	★ Professional	★ Ultimate
✓ Flexible file import	✓ Flexible file import	✓ Flexible file import
✓ Comparison Day Forecast	✓ Comparison Day Forecast	✓ Comparison Day Forecast
✓ Heat dependent forecast	✓ Heat dependent forecast	✓ Heat dependent forecast
✓ Mass forecast	✓ Mass forecast	✓ Mass forecast
✓ Export to Excel & CSV	✓ Export to Excel & CSV	✓ Export to Excel & CSV
✓ SLP creation (GO-G6, HO, LO-L2)	✓ SLP creation (GO-G6, HO, LO-L2)	✓ SLP creation (GO-G6, HO, LO-L2)
✓ TLP gas creation (SigLinDe)	✓ TLP gas creation (SigLinDe)	✓ TLP gas creation (SigLinDe)
✓ Amplitude adjustment	✓ Amplitude adjustment	✓ Amplitude adjustment
✓ Individual & bulk pricing	✓ Individual & bulk pricing	✓ Individual & bulk pricing
✓ Risk parameters for pricing	✓ Risk parameters for pricing	✓ Risk parameters for pricing
✗ Historical pricing	✓ Historical pricing	✓ Historical pricing
✗ Atypical network usage	✓ Atypical network usage	✓ Atypical network usage
✗ Power adjustment	✓ Power adjustment	✓ Power adjustment
✗ Similarity analysis	✓ Similarity analysis	✓ Similarity analysis
✗ Custom bulk import	✓ Custom bulk import	✓ Custom bulk import
✗ Optimal decomposition into SHP and value-neutral residual schedule	✓ Optimal decomposition into SHP and value-neutral residual schedule	✓ Optimal decomposition into SHP and value-neutral residual schedule
✗ Integrated portfolio management	✓ Integrated portfolio management	✓ Integrated portfolio management
✗ BelVis and SAP interfaces	✓ BelVis and SAP interfaces	✓ BelVis and SAP interfaces
✗ MSCONS import	✗ MSCONS import	✓ MSCONS import
✗ TT.WDM: Weather data module	✗ TT.WDM: Weather data module	✓ TT.WDM: Weather data module
✗ TT.MPK: Market price curves	✗ TT.MPK: Market price curves	✓ TT.MPK: Market price curves
✗ TT.BM: Report module	✗ TT.BM: Report module	✓ TT.BM: Report module

## solutions for energy sales & trade

The right tool for every application



Weather stations and climate data



Portfolio management for INIPRO



Market price curves for electricity and gas



Time series management for electricity and gas



Energy sales for business customers

We are flexible in ever respect: beyond our tools, we also offer individual software development on customer request, energy industry analysis & consulting. Visit our website <https://timpetools.de> and learn more.



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# INIPRO

The Swiss Army Knife of the energy industry.

The intuitive, fast and affordable way to forecast, analyse, price and decompose electricity and gas schedules.



INIPRO

## PERFORMANCE DESCRIPTION: INIPRO

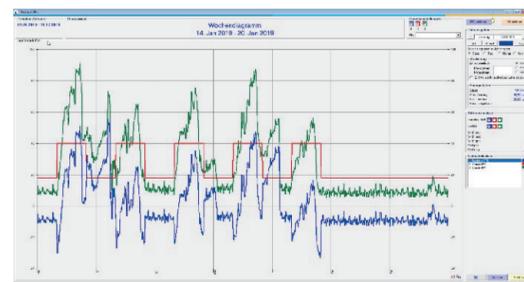
Application for generation, processing and analysis of power and gas time series



### CORE FUNCTIONALITIES

- Forecast of a period of any length on the basis of power or work measured values (h or ¼ h), individual or mass forecast, electricity and gas
- Forecasting algorithms: Comparison day method or sigmoid analysis depending on temperature correlation.
- Rollout of standard load profiles (SLP), also simultaneously for different profile types incl. sum function for electricity (G0-G6, H0, L0-L2) and gas (all profiles according to TU-Munich incl. SigLinDe)
- Automatic forecast completion for actual data < 1 year
- Weekly overlay with selection of individual days/weeks to exclude unusual times in the forecast
- Direct transfer of specific actual data time ranges to the forecast period
- Consideration of state-specific holidays, bridging days, company holidays, etc.
- Generate forecasts based on self-defined reference schedules
- Electricity TLP (option to use own weather stations with heat pump or storage profiles)

- Renewable energies forecast
  - Photovoltaics
  - Wind power plants or wind farms
- Forecast of temperature-controlled CHP units for electricity and for gas
- Temperature management for temperature-dependent forecasts at zip code level
- Gas profiling by specifying sigmoid parameters and weekly factors



Decomposition of a forecast into standard trading products (SHP) with a value-neutral residual in a weekly graphic

### ANALYSIS AND ADJUSTMENT OF LOAD CURVES

- Chronological view in year/month/week/day or free time selection
- Management of multiple HFC price curves (electricity) and DFC price curves (gas) for individual or mass pricing
- Individual risk surcharge for HFC and DFC
- Pricing with spot market prices
- Pricing with balancing energy prices
- Tariff time decomposition with duration of use and power min/ max
- Creation of HT and NT schedules
- Addition/Subtraction
- Multiplication/division with a constant
- Scaling to a target work
- Variable amplitude adjustment time static/dynamic
- Replace load curve parts with other load curves
- Determination of grid fees
- Separation into positive and negative components
- Optimization through spot market shift
- Difference analysis (W-pos, W-neg, W-ges, P-maxpos, P-maxneg), absolute and in percent
- Decomposition into standard trading products (SHP) with volume-neutral or value-neutral residual schedule.
- Separation into arbitrary time segments
- Analysis of temporally different load curves
- Smoothing of holiday transitions
- Smoothing of load curves with the moving average method
- Change in performance for the same work
- Annual duration curve and power distribution
- Analysis of atypical grid usage (\$19 NEV)
- Determination of temperature correlation
- Sigmoid analyses with determination of the sigmoid parameters
- Risk differentiation of many forecast load profiles in a portfolio
- Similarity analysis between load profiles
- Quotation calculation with up to 10 delivery times

### INTERFACES

#### EXPORT

- Excel
- CSV
- LPEX
- BelVis (Soap and REST)
- SAP (RFC-based)
- Highly flexible, individual ASCII data export

#### IMPORT

- Custom import for Excel and ASCII files
- LPEX
- MSCONS
- BelVis (Soap and REST)
- SAP (RFC-based)



portfolio evaluation

### OTHER

- Database independent, using only small access files for basic data
- Version history
- Holiday calendar at state level
- Bilingual German and English
- User-related rights and roles concept
- Simple or advanced portfolio management (file/database based)
- Online support via ticket system
- Extensive online help
- Central update management via the timpetools cloud

### OPTIONAL ADD-ON MODULES



TT.MPK

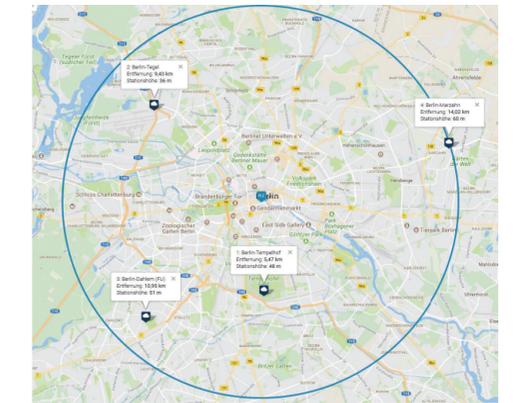
Electricity and gas market price curves, settlement and intraday price curves



TT.WDM

Weather data module with complete integration of all DWD weather stations at postcode level with web portal and radius search, approx. 500 stations for temperatures, wind and cloud cover

Perimeter search in the weather data module:



TT.BM

Report module with complete load profile analysis as PDF document based on monthly or annual load profile



TT.PFM

Portfolio management module for INIPRO for planning and managing schedule transactions