

# Renewable Energy

TRAX has the expertise to provide engineering support for nearly any type of renewable energy:

- Hydro
- Solar – CSP and PV
- Biomass
- Wind
- Geothermal
- Fuel cells

Using state-of-the-art electrical simulation software, we can examine the effects of renewables on your local or regional electrical grid.

Fuel cells for direct conversion of chemical to electrical energy.

Calculate economics

Evaluate alternatives

## Process Concerns

TRAX can help you determine:

- The impact of co-firing biomass on power output, steam temperatures and NO<sub>x</sub> or SO<sub>x</sub> generation
- The impact of adding solar generation to a fossil plant
- Concentrated solar versus photo-voltaic
- Effects of varying wind generation on grid stability

## Control System Issues

TRAX has experience in helping customers with the following:

- Optimization of hydro chains
- Startup, shutdown and normal operating procedures
- Starting or stopping steam production in a hybrid solar plant

**TRAX's simulation capabilities provide the perfect tool for conducting "what if" studies.**

**TRAX** LLC

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