

# Energy modelling

## Sophisticated simulation for Power-to-X projects

Flexens' energy modelling incorporates realistic simulation into our Power-to-X projects. Our highly educated and certified energy specialists combine PLEXOS, the best tool in the industry, with their substantial insight and know-how of energy systems and markets. With energy modelling, Flexens enhances any project's feasibility, credibility, and bankability.

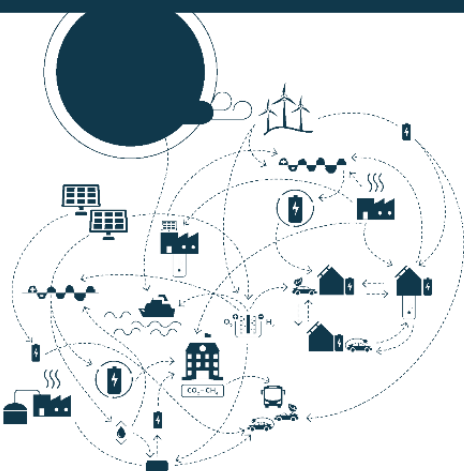
Energy models provides our project developers with accurate and reliable energy market analyses, excellent for renewable energy projects of any scale. Flexens' energy modelling team considers extensive input data: energy policies, subsidies, taxes, emission costs, and techno-economic features of different technologies.

The values of Power-to-X are adequately captured in our high-resolution models. Thus, Flexens' energy modelling offers significant cost-saving potential in all our projects.



Typical energy modelling	Flexens energy modelling
<ul style="list-style-type: none"> <li>▪ Capability to model simple technologies</li> <li>▪ Simulation accuracy down to 1 hour</li> <li>▪ Linear programming (LP) or no optimisation</li> <li>▪ Limited sector coupling capabilities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Capability to model complex projects</li> <li>▪ Simulation accuracy down to 1 second</li> <li>▪ Mixed-integer linear programming (MILP) optimisation</li> <li>▪ Excellent sector coupling capabilities</li> </ul>

### Carefully modelling complex energy systems to accurately support decision making



Key input data and project parameters  
 → Energy model  
 → Most cost-efficient solution

